

University of California

Report on Financial Statements and Expenditures of Federal Awards in Accordance with the Uniform Guidance For the Year Ended June 30, 2019

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University of California

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Report of Independent Auditors

To the Regents of the University of California

Report on the Financial Statements

We have audited the accompanying financial statements of the University of California (the "University"), a component unit of the State of California, its aggregate discretely presented component units, the University of California Retirement System, and the University of California Retiree Health Benefit Trust as of and for the years ended June 30, 2019 and 2018, and the related notes to the financial statements, which collectively comprise the University's basic financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express opinions on the financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement. The financial statements of the University's discretely presented component units were not audited in accordance with *Government Auditing Standards*.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on our judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, we consider internal control relevant to the University's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the University's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.



Opinions

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the University, the aggregate discretely presented component units, the University of California Retirement System and the University of California Retiree Health Benefit Trust as of June 30, 2019 and 2018, and the respective changes in financial position and, where applicable, cash flows thereof for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis on pages 4 through 22 and the required supplemental information on pages 98 through 105 be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the *Governmental Accounting Standards Board* who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Information

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the University's basic financial statements. The accompanying summary schedule of expenditures of federal awards and schedule of expenditures of federal awards for the year ended June 30, 2019 are presented for purposes of additional analysis as required by Title 2 U.S. *Code of Federal Regulations Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance) and are not a required part of the basic financial statements. As described in Note 2 to the summary schedule of expenditures of federal awards and schedule of expenditures of awards, the accompanying summary schedule of expenditures of federal awards and schedule of expenditures of federal awards were prepared on the cash basis, which is a comprehensive basis of accounting other than accounting principles generally accepted in the United States of America. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the summary schedule of expenditures



of federal awards and schedule of expenditures of federal awards are fairly stated, in all material respects, on the basis of accounting described in Note 2, in relation to the basic financial statements as a whole.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated October 8, 2019 on our consideration of the University's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements and other matters for the year ended June 30, 2019. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the University's internal control over financial reporting and compliance.

PricewaterhouseCoopers LLP

San Francisco, California
October 8, 2019

Management's Discussion and Analysis (Unaudited)

The objective of Management's Discussion and Analysis is to help readers of the University of California's financial statements better understand the financial position and operating activities for the year ended June 30, 2019, with selected comparative information for the years ended June 30, 2018 and 2017. This discussion has been prepared by management and should be read in conjunction with the financial statements and the notes to the financial statements. Unless otherwise indicated, years (2017, 2018 and 2019, etc.) in this discussion refer to the fiscal years ended June 30.

The University of California's financial report communicates financial information for the University of California (the University), the University of California campus foundations (campus foundations), the University of California Retirement System (UCRS) and the University of California Retiree Health Benefit Trust (UCRHBT) through five primary financial statements and notes to the financial statements. Three of the primary statements, the statements of net position, the statements of revenues, expenses and changes in net position and the statements of cash flows, present the financial position, changes in financial position and cash flows for the University and the affiliated campus foundations. The financial statements for the campus foundations are presented discretely from the University. Two of the primary statements, the statements of plans' and trust's fiduciary net position and the statements of changes in plans' and trust's fiduciary net position, present the financial position and operating activities for UCRS and UCRHBT. The notes to the financial statements provide additional information that is essential to a full understanding of the financial statements.

THE UNIVERSITY OF CALIFORNIA

The University of California, one of the largest and most acclaimed institutions of higher learning in the world, is dedicated to excellence in teaching, research, health care and public service. The University has annual resources of nearly \$38.5 billion and encompasses ten campuses, five medical centers, four law schools and a statewide Division of Agriculture and Natural Resources. The University is also involved in the operation and management of three national laboratories for the U.S. Department of Energy (DOE).

Campuses. The ten campuses are located in Berkeley, Davis, Irvine, Los Angeles, Merced, Riverside, San Diego, San Francisco, Santa Barbara and Santa Cruz. All of the campuses, except San Francisco, offer undergraduate, graduate and professional education; the San Francisco campus is devoted exclusively to graduate and professional education in health sciences.

Health sciences. The University operates one of the nation's largest health science and medical training programs. The instructional program is conducted in 16 health professional schools on six campuses. The University's health programs include five medical centers, two dental schools, three nursing schools, two public health schools and two pharmacy schools, in addition to a school of optometry and a school of veterinary medicine. The University's medical schools play a leading role in the development of health services and the advancement of medical science and research.

Law schools. The University has law schools at Berkeley, Davis, Irvine and Los Angeles. Also, the Hastings College of the Law in San Francisco is affiliated with the University, although not included in the financial reporting entity.

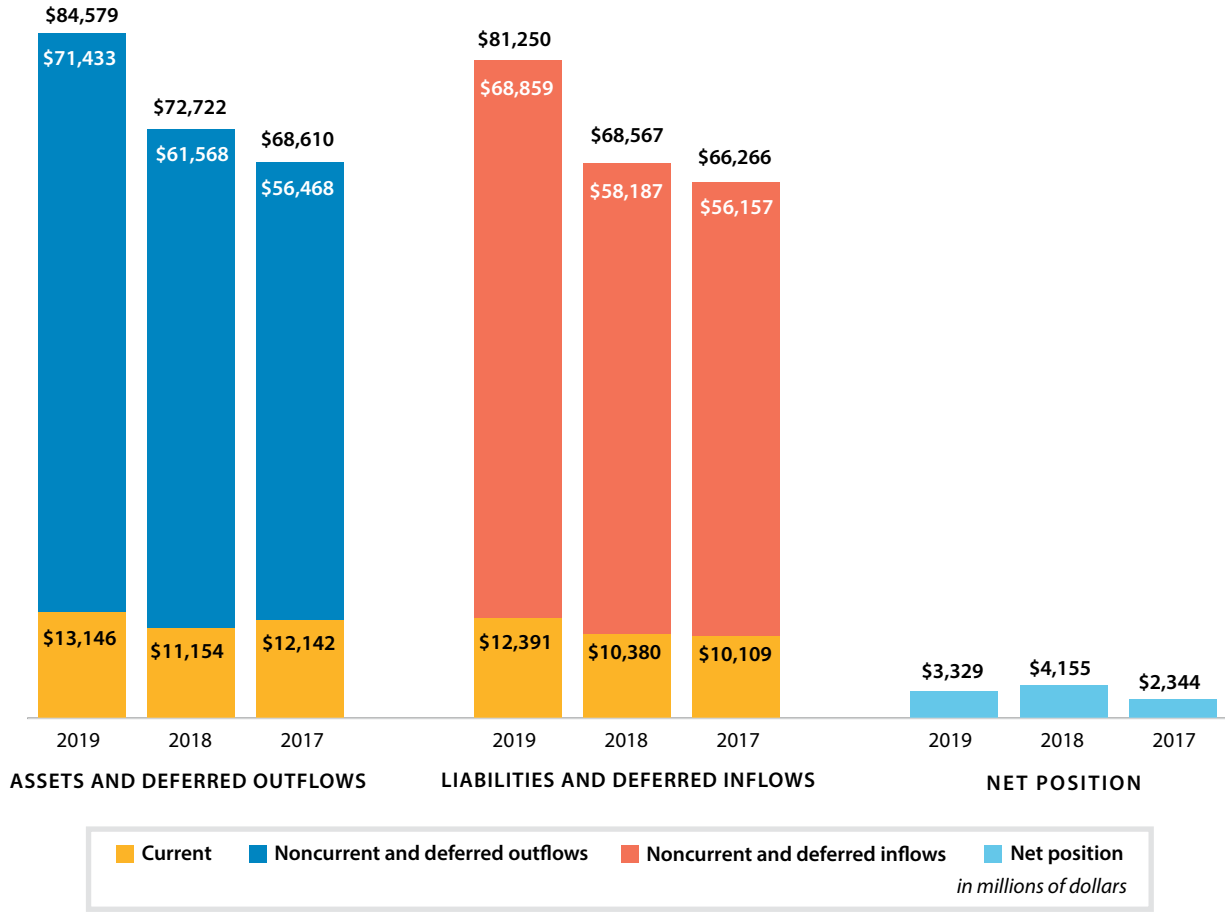
Agriculture and Natural Resources. The Division of Agriculture and Natural Resources is a statewide research and public service organization that serves a large and diverse agricultural community. The division collaborates on research with all campuses, and conducts studies at nine research and extension centers and on private land in cooperation with California producers. In addition, research and educational programs are conducted in each of the state’s 58 counties.

University Extension. The foremost continuing education program of its kind in size, scope and quality of instruction, University Extension offers almost 20,000 self-supporting courses statewide and in several foreign countries.

National laboratories. Under contract with the DOE, the University operates and manages the Ernest Orlando Lawrence Berkeley National Laboratory (LBNL) in California. The University is also a member in two separate joint ventures, Triad National Security, LLC (Triad) and Lawrence Livermore National Security, LLC (LLNS) that operate and manage the Los Alamos National Laboratory (LANL) and Lawrence Livermore National Laboratory (LLNL), respectively, under contracts directly with the DOE. The laboratories conduct broad and diverse basic and applied research in nuclear science, energy production, national defense and environmental and health areas.

THE UNIVERSITY’S FINANCIAL POSITION

The University implemented a new accounting policy for certain asset retirement obligations. This change in accounting policy provides recognition and measurement standards for legally and contractually enforceable liabilities associated with the retirement of tangible capital assets. Financial information for 2018 and 2017 has been restated to retroactively apply this new accounting policy.

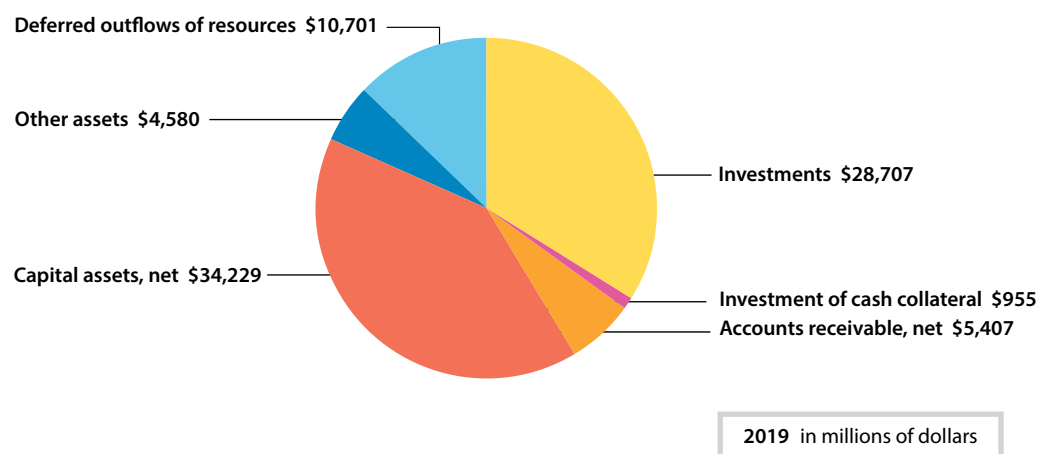


The statement of net position presents the financial position of the University at the end of each year. It displays all of the University's assets, deferred outflows, liabilities and deferred inflows. The difference between assets, deferred outflows, liabilities and deferred inflows is net position. The major components of the assets, deferred outflows, liabilities, deferred inflows and net position as of June 30, 2019, 2018 and 2017 are as follows:

(in millions of dollars)

| | 2019 | 2018 | 2017 |
|---------------------------------------|----------------|----------------|----------------|
| ASSETS | | | |
| Investments | \$28,707 | \$27,369 | \$24,478 |
| Investment of cash collateral | 955 | 1,165 | 1,080 |
| Accounts receivable, net | 5,407 | 4,062 | 3,947 |
| Capital assets, net | 34,229 | 32,325 | 30,670 |
| Other assets | 4,580 | 3,132 | 2,865 |
| Total assets | 73,878 | 68,053 | 63,040 |
| DEFERRED OUTFLOWS OF RESOURCES | 10,701 | 4,669 | 5,570 |
| LIABILITIES | | | |
| Debt, including commercial paper | 24,584 | 23,659 | 20,503 |
| Securities lending collateral | 955 | 1,164 | 1,079 |
| Net pension liability | 18,118 | 9,775 | 10,739 |
| Net retiree health benefits liability | 19,862 | 18,862 | 19,290 |
| Other liabilities | 10,903 | 8,497 | 8,283 |
| Total liabilities | 74,422 | 61,957 | 59,894 |
| DEFERRED INFLOWS OF RESOURCES | 6,828 | 6,610 | 6,372 |
| NET POSITION | | | |
| Net investment in capital assets | 14,284 | 13,578 | 13,343 |
| Restricted: | | | |
| Nonexpendable | 1,225 | 1,182 | 1,155 |
| Expendable | 8,211 | 8,272 | 7,153 |
| Unrestricted | (20,391) | (18,877) | (19,307) |
| Total net position | \$3,329 | \$4,155 | \$2,344 |

The University's Assets and Deferred Outflows



The University's total assets and deferred outflows of resources have increased to \$84.6 billion in 2019, compared to \$72.7 billion in 2018 and \$68.6 billion in 2017. Capital assets have increased due to continued investments in facilities in excess of depreciation. Investments increased due to positive financial market returns. Deferred outflows fluctuate primarily due to changes in the University's net pension and retiree health benefits liabilities.

Investments

Investments held by the University are principally carried in four investment pools: the Short Term Investment Pool (STIP), the Total Return Investment Pool (TRIP), the Blue and Gold Pool (BGP) and the General Endowment Pool (GEP). Cash for operations and bond proceeds for construction expenditures are invested in STIP. The University uses STIP to meet operational liquidity needs. TRIP and BGP provide the opportunity to enhance returns on long-term capital by taking advantage of the economies of scale of investing in a large pool across a broad range of asset classes. The University maximizes its use of TRIP and BGP while still maintaining sufficient funds in STIP to meet operational and liquidity needs. The GEP is a balanced portfolio and the primary investment vehicle for individual endowments and funds functioning as endowments.

The Regents of the University of California ("The Regents") utilize asset allocation strategies that are intended to optimize investment returns over time in accordance with investment objectives and at acceptable levels of risk. GEP had positive returns of 8.2 percent in 2019, 8.9 percent in 2018 and 15.1 percent in 2017. BGP commenced operations on April 1, 2019 and had a positive return of 3.5 percent from inception through June 30, 2019. TRIP had positive returns of 6.3 percent, 4.5 percent and 7.7 percent in 2019, 2018 and 2017, respectively. STIP had positive returns of 2.2 percent, 2.0 percent and 1.3 percent in 2019, 2018 and 2017, respectively.

Investment of cash collateral

The University participates in a securities lending program incorporating securities owned by both the University and UCRS as a means to augment income. Cash collateral fluctuates in response to changes in demand from borrowers and the availability of securities based on the University's asset allocation mix.

Accounts receivable, net

Accounts receivable include amounts due from state and federal governments on contracts and grants, patient receivables for medical centers and professional medical fees, investment income, proceeds from security sales and amounts due for private grants and contracts. Receivables fluctuate based on the timing of collections and investment sales activity. In 2019, medical center accounts receivable increased consistent with the growth in revenues due to higher inpatient and outpatient volumes. Additionally, in 2019, other receivables for investment securities sold increased by \$972.5 million.

Capital assets, net

The University's enrollment growth and continuing needs for renewal, modernization and seismic correction of existing facilities are the key drivers of capital investments. Capital spending continues at a brisk pace in order to provide the facilities necessary to support the University's teaching, research and public service mission and for patient care. Capital spending includes constructing and renovating academic buildings, research laboratories, libraries, student services, parking structures and infrastructure projects at all ten campuses and five medical centers. The University has a goal to increase affordable campus housing for more students given escalating living costs in many of the surrounding campus communities. In 2019 and 2018, the largest portion of the capital asset additions were related to constructing housing facilities at several campuses. Additionally, construction continues to expand the Merced campus by 2020. Total additions of capital assets were \$4.1 billion in 2019 as compared to \$3.7 billion in 2018 and \$3.0 billion in 2017.

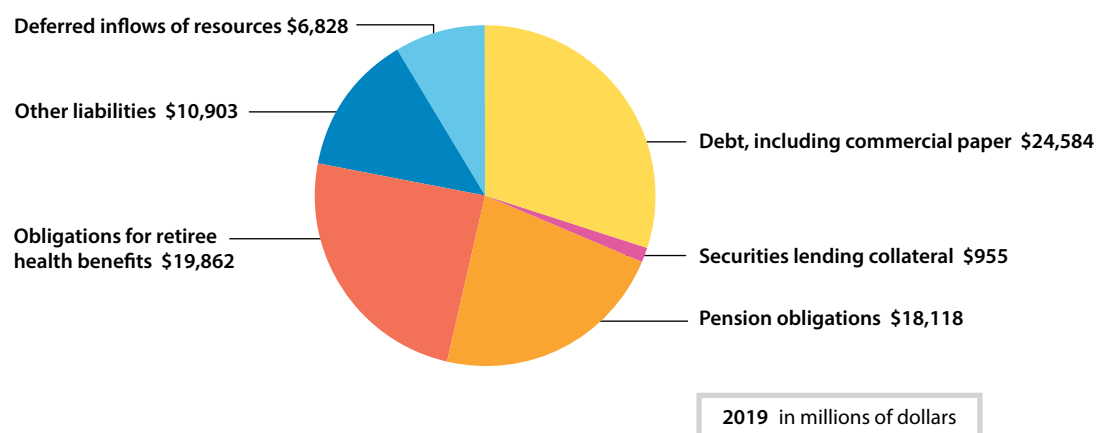
Other assets

Other assets include cash, investments held by trustees, pledge receivables, note and mortgage receivables, inventories and receivables from the DOE. In 2019, \$286.5 million was held by trustees to retire taxable bonds maturing on July 1, 2019. Additionally, in 2019 and 2018, current and noncurrent investments held by trustees increased by \$524.1 million and \$322.6 million, respectively, related to bond proceeds for the design and construction of third-party capital projects. The noncurrent receivable from the DOE, which fluctuates with the net pension and retiree health benefits liabilities due to the DOE's continuing responsibility to contribute for retired and terminated vested members of LLNL and LANL, increased by \$605.5 million in 2019 as compared to 2018 and decreased by \$284.3 million in 2018 as compared to 2017.

Deferred outflows of resources

Changes in fair values of the University's interest rate swaps that are determined to be hedging derivatives, losses on debt refundings, asset retirement obligations and certain changes in the net pension and net retiree health benefits liabilities are reported as deferred outflows of resources. In 2019, deferred outflows increased primarily due to changes in assumptions from the experience study for the University of California Retirement Plan (UCRP). In 2018, deferred outflows decreased due to higher than expected investment returns for the UCRP portfolio and an increase in the discount rate for the retiree health benefit liability.

The University's Liabilities and Deferred Inflows



The University's liabilities and deferred inflows of resources increased to \$81.2 billion in 2019 as compared to \$68.6 billion in 2018 and \$66.3 billion in 2017. The change in 2019 was primarily related to the increases in the liability for pension benefits and other liabilities. In 2018, the increase was primarily related to the issuance of additional debt to finance capital projects offset by decreases in the liabilities for pension and retiree health benefits.

Debt, including commercial paper

Capital assets are financed from a variety of sources, including University equity contributions, state support, gifts, revenue bonds, bank loans and leases or structures that involve separate legal entities. Commercial paper and bank loans provide interim financing for capital assets during the construction period.

Outstanding debt increased by \$925.4 million and \$3.2 billion in 2019 and 2018, respectively. A summary of the activity follows:

| <i>(in millions of dollars)</i> | | |
|---|--------------|----------------|
| | 2019 | 2018 |
| ADDITIONS TO OUTSTANDING DEBT | | |
| General Revenue Bonds | \$653 | \$1,853 |
| Limited Project Revenue Bonds | | 1,692 |
| Capital leases | 16 | 47 |
| Other borrowings | 260 | 285 |
| Blended Component Unit Revenue Bonds | 662 | 320 |
| Bond premium, net | 77 | 494 |
| Additions to outstanding debt | 1,668 | 4,691 |
| REDUCTIONS TO OUTSTANDING DEBT | | |
| Refinancing and prepayments | | (1,014) |
| Scheduled principal payments | (419) | (392) |
| Payments on other borrowings | (15) | (7) |
| Commercial paper, net | (207) | (31) |
| Amortization of bond premium | (102) | (91) |
| Reductions to outstanding debt | (743) | (1,535) |
| Net increase in outstanding debt | \$925 | \$3,156 |

The University's debt, which is used to primarily finance capital assets, includes \$574.5 million, \$781.8 million and \$812.7 million of commercial paper outstanding at the end of 2019, 2018 and 2017, respectively. Total debt outstanding was \$24.6 billion at the end of 2019 compared to \$23.7 billion and \$20.5 billion at the end of 2018 and 2017, respectively.

In 2019, General Revenue Bonds of \$653.1 million were issued for operations and to finance certain facilities and projects. Proceeds of \$286.5 million were used to retire bonds maturing on July 1, 2019. Additionally, \$662.5 million of tax-exempt bonds were issued to finance the construction of third-party housing and dining facilities. Reductions to outstanding debt include \$434.4 million for scheduled principal payments.

To take advantage of favorable interest rates for tax-exempt bonds, the University financed several projects in 2018 that were approved for construction or had recently started construction. The University also refinanced debt in December 2017 in advance of tax reform changes that were effective as of January 1, 2018. In 2018, \$3.5 billion of debt was issued, including General Revenue Bonds totaling \$1.9 billion and Limited Project Revenue Bonds totaling \$1.7 billion to finance and refinance certain facilities and projects. Reductions to outstanding debt in 2018 were \$1.5 billion, including \$1.0 billion for one-time principal payments for the refinancing or refunding of previously outstanding debt. The refinancing and refunding of previously outstanding debt resulted in an economic gain of \$83.2 million.

In August 2016, the University entered into an agreement with a developer to design, construct, finance, operate and maintain certain auxiliary, administrative, academic and research facilities at the Merced campus by 2020, for which the University will finance \$600 million of the total costs. Other borrowings at June 2019 and 2018 include \$539.7 million and \$296.9 million, respectively, for the present value of the payments expected to be made over the term of the agreement through 2055 for the repayment of the private debt incurred by the developer during construction. In the event the agreement with the developer is terminated, the outstanding portion of the private debt incurred by the developer for the construction phase will become an obligation of the University.

The University's General Revenue Bond ratings are currently affirmed at Aa2, AA and AA by Moody's Investors Service, Standard & Poor's and Fitch, respectively, all with stable outlooks. The University's Limited Project Revenue Bonds and Medical Center Pooled Revenue Bonds are currently affirmed at Aa3, AA- and AA- by Moody's Investors Service, Standard & Poor's and Fitch, respectively, all with stable outlooks.

Commercial paper borrowings decreased \$207.3 million in 2019 as compared to 2018, and decreased by \$30.9 million in 2018 compared to 2017. Commercial paper is primarily used as interim financing for construction projects and short-term financing for other needs. Commercial paper fluctuates based upon the timing of refinancing construction projects with the issuance of long-term revenue bonds. The University has various revolving credit agreements totaling \$1.1 billion with major financial institutions for the purpose of providing additional liquidity for certain variable-rate demand bonds, commercial paper and for other liquidity needs.

Securities lending collateral

Under the securities lending program, the University records a liability to the borrower for cash collateral received and held by the University for securities on loan at the end of the year. All borrowers are required to provide additional collateral by the next business day if the value of the collateral falls to less than 100 percent of the fair value of the securities lent. The amount of the securities lending collateral liability fluctuates directly with securities lending opportunities and the investment of cash collateral.

Net pension liability and retiree health benefits

The University has a financial responsibility for pension benefits associated with its defined benefit plans and for retiree health benefits. The University's net pension liability was \$18.1 billion, \$9.8 billion and \$10.7 billion in 2019, 2018 and 2017, respectively. The increase in 2019 was primarily driven by changes in assumptions as a result of the most recent experience study, with the reduction in the discount rate and the changes in the mortality tables causing the largest increases. The decrease in net pension liability for 2018 was primarily driven by higher than expected investment returns on the UCRP investment portfolio. The total investment rate of return for UCRP was 6.0 percent in 2019, 7.8 percent in 2018 and 14.5 percent in 2017. The discount rate used to estimate the net pension liability was 6.75, 7.25 and 7.25 percent in 2019, 2018 and 2017, respectively.

LBNL participates in the University's defined benefit pension plan, although the DOE has an ongoing financial responsibility to reimburse the University for LBNL's share of the obligation to UCRP. In addition, under certain circumstances, the University makes contributions to UCRP for LANL and LLNL retirees and, based upon contractual arrangements with the DOE, is reimbursed by the DOE. The University recorded receivables from the DOE of \$911.5 million, \$316.7 million and \$615.1 million for 2019, 2018 and 2017, respectively, representing the DOE's share of the net pension liability.

The University's net retiree health benefits liability was \$19.9 billion, \$18.9 billion and \$19.3 billion, in 2019, 2018 and 2017, respectively. While retiree health benefits are not a legal obligation of the University and can be cancelled or modified at any time, accounting standards require the University to recognize a net retiree health liability based on the current practices of providing retiree health benefits. The University funds the retiree health benefits through UCRHBT based on a projection of benefits on a pay-as-you-go basis and the assets in the trust are not sufficient to fund retiree health benefits. Therefore, the Bond Buyer 20-year tax-exempt general obligation municipal-bond index rate is used to discount the retiree health benefits liabilities. The change in the net retiree health benefits liability in 2019 was driven by the decrease in the discount rate offset by reducing the inflation assumption and strong management of health care costs. The change in the net retiree health benefits liability in 2018 was primarily driven by the lower than expected health care cost increases and the change in discount rate used to estimate the retiree health benefits liability. The discount rates as of June 30, 2019, 2018 and 2017 were 3.50 percent, 3.87 percent and 3.58 percent, respectively.

LBNL participates in the University's retiree health benefits plans and, based on contractual arrangements with the DOE, the University is reimbursed for retiree health benefits costs associated with retirees who previously worked at LBNL. The University recorded receivables from the DOE of \$667.6 million, \$656.9 million and \$642.8 million for 2019, 2018 and 2017, respectively, representing the DOE's share of the net retiree health benefits liability.

Other liabilities

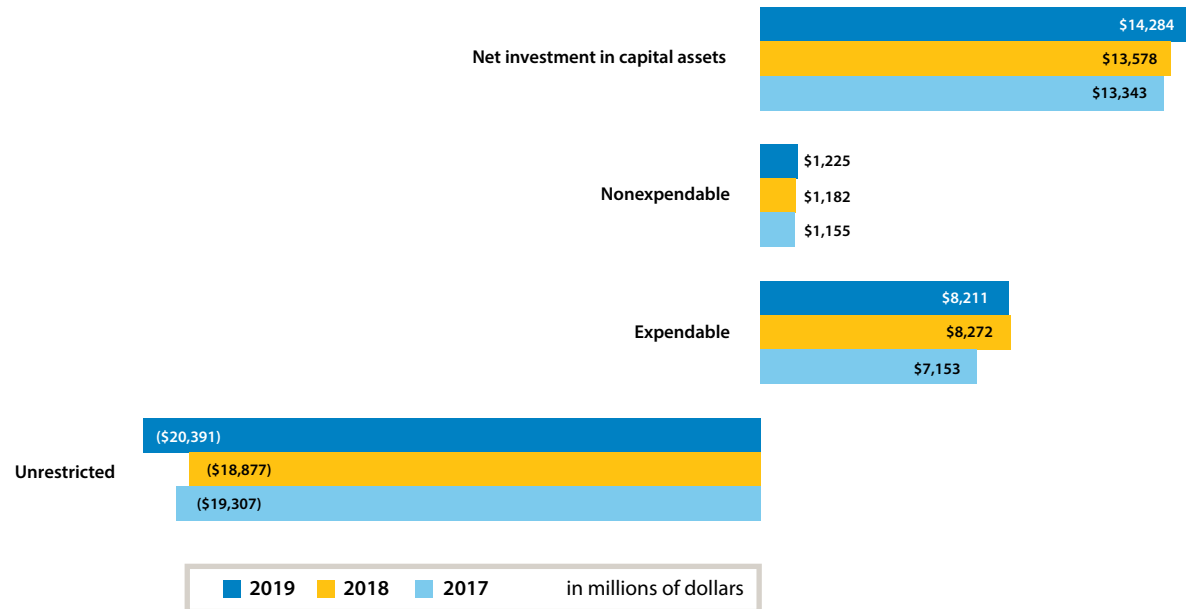
Other liabilities consist of accounts payable, accrued salaries, other employee benefits, unearned revenue, funds held for others, DOE laboratories' liabilities, federal refundable loans, self-insurance liabilities and obligations under split-interest agreements held by the University. Accounts payable increased by \$1.1 billion primarily due to higher payables for securities purchased as of June 30, 2019. In 2019, accrued salaries increased by \$617.6 million and employee benefits increased by \$181.6 million due to the timing of payroll payments to employees.

Deferred inflows of resources

Deferred inflows of resources are related to the University's service concession arrangements, gains on debt refundings, sales of certain future patent royalty revenues, changes in the estimated future value of irrevocable split-interest agreements and certain changes in the net pension and net retiree health benefits liabilities. Changes in deferred inflows of resources was primarily due to fluctuations in the net pension and retiree health liabilities.

The University's Net Position

Net position represents the residual interest in the University's assets and deferred outflows after all liabilities and deferred inflows are deducted. Net position was restated for 2018 and 2017 as a result of adopting new accounting rules for certain asset retirement obligations. The University's net position was positive \$3.3 billion in 2019 compared to positive \$4.2 billion in 2018 and positive \$2.3 billion in 2017. Net position is reported in the following categories: net investment in capital assets; restricted, nonexpendable; restricted, expendable; and unrestricted.



Net investment in capital assets

The portion of net position invested in capital assets, net of accumulated depreciation and the related outstanding debt used to finance the acquisition, construction or improvement of these capital assets, was \$14.3 billion in 2019 compared to \$13.6 billion in 2018 and \$13.3 billion in 2017. The University continues to invest in its physical facilities which are, in part, financed by debt in order to support growth.

Restricted, nonexpendable

Restricted, nonexpendable net position includes the corpus of the University's permanent endowments. In 2019 and 2018, the increase in restricted nonexpendable net position was principally due to the receipt of new gifts.

Restricted, expendable

Restricted, expendable net position is subject to externally imposed restrictions governing their use. Net position may be spent only in accordance with the restrictions placed upon them and may include endowment income and gains, subject to the University's spending policy; support received from gifts, appropriations or capital projects and trustee-held investments. The increases or decreases in restricted, expendable funds are principally due to the timing of spending restricted gifts and endowment income and gains.

Unrestricted

Under generally accepted accounting principles, net position that is not subject to externally imposed restrictions governing their use must be classified as unrestricted for financial reporting purposes. Unrestricted net position is negative due primarily to obligations for pension and retiree health benefits exceeding University assets available to pay such obligations. Although unrestricted net position is not subject to externally imposed restrictions, substantially all of the University's reserves are allocated for academic and research initiatives or programs, for capital projects or for other purposes.

THE UNIVERSITY'S RESULTS OF OPERATIONS

The statement of revenues, expenses and changes in net position is a presentation of the University's operating results and indicates whether the financial condition has improved or deteriorated. In accordance with the Governmental Accounting Standards Board (GASB) requirements, certain significant revenues relied upon and budgeted for fundamental operational support of the core instructional mission of the University are required to be recorded as nonoperating revenues, including state educational appropriations, private gifts and investment income. Results of operations for 2018 and 2017 have been restated as a result of adopting new accounting policies for certain asset retirement obligations. A summarized comparison of the operating results for 2019, 2018 and 2017, arranged in a format that matches the revenue supporting the core activities of the University with the expenses associated with these core activities, is as follows:

(in millions of dollars)

| | 2019 | | | 2018 | | | 2017 | | |
|---|------------------|----------------|----------------|------------------|----------------|----------------|------------------|----------------|----------------|
| | OPERATING | NONOPERATING | TOTAL | OPERATING | NONOPERATING | TOTAL | OPERATING | NONOPERATING | TOTAL |
| REVENUES | | | | | | | | | |
| Student tuition and fees, net | \$5,170 | | \$5,170 | \$4,839 | | \$4,839 | \$4,477 | | \$4,477 |
| State educational appropriations | | \$3,508 | 3,508 | | \$3,386 | 3,386 | | \$3,278 | 3,278 |
| Federal Pell Grants | | 438 | 438 | | 422 | 422 | | 382 | 382 |
| Grants and contracts, net | 5,977 | | 5,977 | 5,709 | | 5,709 | 5,441 | | 5,441 |
| Medical centers, net | 13,208 | 34 | 13,242 | 12,065 | 22 | 12,087 | 11,241 | 13 | 11,254 |
| Educational activities, net | 4,009 | | 4,009 | 3,670 | | 3,670 | 3,333 | | 3,333 |
| Auxiliary enterprises, net | 1,717 | | 1,717 | 1,685 | | 1,685 | 1,579 | | 1,579 |
| Department of Energy laboratories | 1,577 | | 1,577 | 1,062 | | 1,062 | 1,147 | | 1,147 |
| Private gifts, net | | 1,441 | 1,441 | | 1,315 | 1,315 | | 1,162 | 1,162 |
| Investment income, net | | 442 | 442 | | 413 | 413 | | 299 | 299 |
| Other revenues | 937 | 53 | 990 | 971 | 127 | 1,098 | 939 | 67 | 1,006 |
| Revenues supporting core activities | 32,595 | 5,916 | 38,511 | 30,001 | 5,685 | 35,686 | 28,157 | 5,201 | 33,358 |
| EXPENSES | | | | | | | | | |
| Salaries and wages | 16,984 | | 16,984 | 15,953 | | 15,953 | 15,160 | | 15,160 |
| Pension benefits | 4,340 | | 4,340 | 1,339 | | 1,339 | 1,888 | | 1,888 |
| Retiree health benefits | 1,292 | | 1,292 | 1,295 | | 1,295 | 1,576 | | 1,576 |
| Other employee benefits | 3,289 | | 3,289 | 3,246 | | 3,246 | 2,938 | | 2,938 |
| Scholarships and fellowships | 850 | | 850 | 767 | | 767 | 729 | | 729 |
| Utilities | 336 | | 336 | 304 | | 304 | 292 | | 292 |
| Supplies and materials | 4,057 | | 4,057 | 3,610 | | 3,610 | 3,240 | | 3,240 |
| Depreciation and amortization | 2,100 | | 2,100 | 2,027 | | 2,027 | 1,910 | | 1,910 |
| Department of Energy laboratories | 1,571 | | 1,571 | 1,055 | | 1,055 | 1,139 | | 1,139 |
| Interest expense | | 767 | 767 | | 746 | 746 | | 721 | 721 |
| Other expenses | 5,284 | 72 | 5,356 | 4,851 | | 4,851 | 4,648 | 60 | 4,708 |
| Expenses associated with core activities | 40,103 | 839 | 40,942 | 34,447 | 746 | 35,193 | 33,520 | 781 | 34,301 |
| Income (loss) from core activities | (\$7,508) | \$5,077 | (2,431) | (\$4,446) | \$4,939 | 493 | (\$5,363) | \$4,420 | (943) |
| OTHER NONOPERATING ACTIVITIES | | | | | | | | | |
| Net appreciation in fair value of investments | | | 1,387 | | | 890 | | | 1,721 |
| Income (loss) before other changes in net position | | | (1,044) | | | 1,383 | | | 778 |
| OTHER CHANGES IN NET POSITION | | | | | | | | | |
| State capital appropriations | | | | | | | | | 2 |
| Capital gifts and grants, net | | | 195 | | | 403 | | | 256 |
| Permanent endowments | | | 23 | | | 25 | | | 24 |
| Increase (decrease) in net position | | | (826) | | | 1,811 | | | 1,060 |
| NET POSITION | | | | | | | | | |
| Beginning of year, as previously reported | | | 4,155 | | | 2,344 | | | 1,293 |
| Cumulative effect of accounting change | | | | | | | | | (9) |
| Beginning of year, restated | | | 4,155 | | | 2,344 | | | 1,284 |
| End of year | | | \$3,329 | | | \$4,155 | | | \$2,344 |

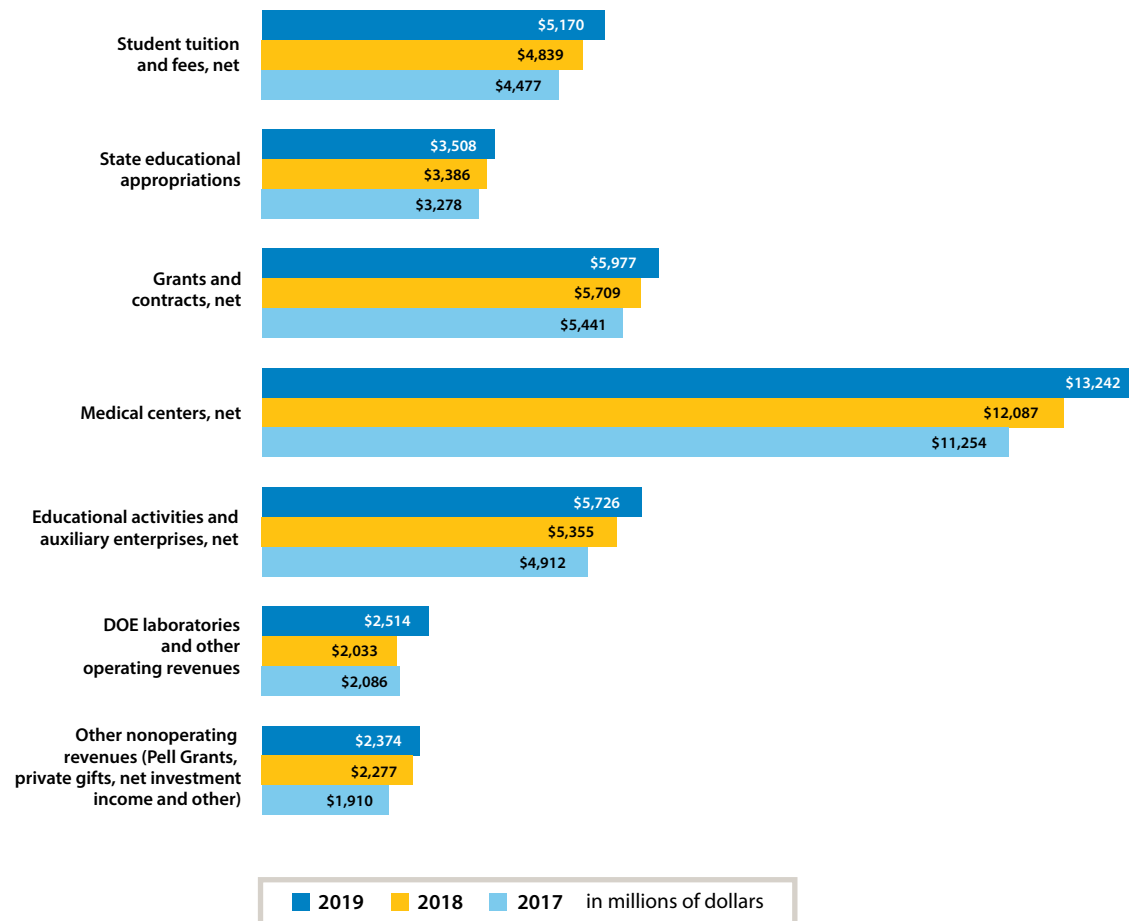
Revenues supporting core activities

Revenues to support the University's core activities, including those classified as nonoperating revenues, were \$38.5 billion, \$35.7 billion and \$33.4 billion in 2019, 2018 and 2017, respectively. These diversified sources of revenue increased by \$2.8 billion in 2019 and \$2.3 billion in 2018.

The state of California's educational appropriations, in conjunction with student tuition and fees, are the core components that support the instructional mission of the University. Grants and contracts provide opportunities for undergraduate and graduate students to participate in basic research alongside some of the most prominent researchers in the country.

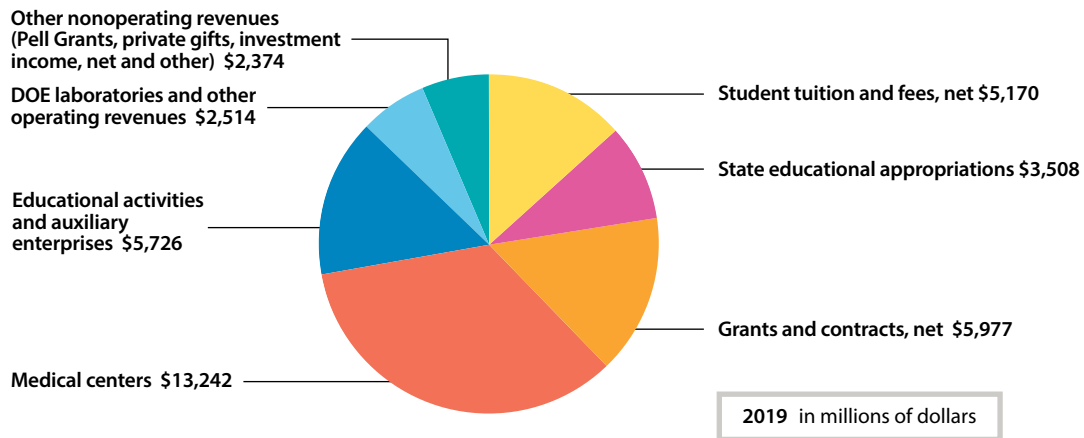
Gifts to the University allow crucial flexibility to faculty for support of their fundamental activities or new academic initiatives. Other significant revenues are from medical centers, educational activities and auxiliary enterprises such as student housing, food service operations and parking.

Revenues in the various categories have changed as follows:



A major financial strength of the University is its diverse source of revenues, including those from student fees, federally sponsored grants and contracts, medical centers, the state of California, private support and auxiliary enterprises. The variety of fund sources has become increasingly important over the past several years.

Categories of both operating and nonoperating revenue that supported the University's core activities in 2019 are as follows:



Student tuition and fees, net

Net student tuition and fees were \$5.2 billion, \$4.8 billion and \$4.5 billion in 2019, 2018 and 2017, respectively. Scholarship allowances, or financial aid, are the difference between the stated charge for tuition and fees and the amount that is paid by the student and third parties on behalf of the student. Scholarship allowances, netted against student tuition and fees, were \$1.2 billion, \$1.3 billion and \$1.1 billion in 2019, 2018 and 2017, respectively. Student tuition and fees, net of scholarship allowances, increased by \$331.4 million and \$361.6 million in 2019 and 2018, respectively, due to enrollment growth.

In 2019, enrollment grew by 2.6 percent and in 2018 enrollment grew by 3.3 percent. Mandatory tuition for resident undergraduates decreased 0.5 percent in 2019 and increased 2.5 percent in 2018. Certain nonresident undergraduates and resident and nonresident graduate students experienced increases in mandatory tuition and fees. Professional degree supplemental tuition varies by discipline; certain increases were approved for 2019, 2018 and 2017.

State educational appropriations

Educational appropriations from the state of California were \$3.5 billion, \$3.4 billion and \$3.3 billion in 2019, 2018 and 2017, respectively. State educational appropriations increased in 2019 and 2018 by \$122.0 million and \$108.3 million, respectively. State educational appropriations include \$169.0 million and \$171.0 million in 2018 and 2017, respectively, as in one-time funds for UCRP.

Grants and contracts, net

Revenue from federal, state, private and local government grants and contracts — including an overall facilities and administration cost recovery of \$1.2 billion, \$1.1 billion and \$1.1 billion in 2019, 2018 and 2017, respectively — was \$6.0 billion, \$5.7 billion and \$5.4 billion in 2019, 2018 and 2017, respectively.

In 2019, federal grants and contracts revenue increased \$227.0 million, or 6.9 percent, as compared to 2018. In 2018, federal grants and contracts revenue increased \$43.0 million, or 1.3 percent, as compared to 2017. Federal grants and contracts include federal facilities and administrative cost recovery of \$829.0 million, \$782.0 million and \$764.0 million in 2019, 2018 and 2017, respectively. Changes in the federal budget impact the University's growth in federal grants and contracts. Grants and contracts revenue is from a variety of federal agencies as indicated below:

(in millions of dollars)

| | 2019 | 2018 | 2017 |
|--|----------------|----------------|----------------|
| Department of Health and Human Services | \$2,176 | \$2,035 | \$1,987 |
| National Science Foundation | 461 | 464 | 465 |
| Department of Education | 81 | 78 | 57 |
| Department of Defense | 299 | 261 | 275 |
| National Aeronautics and Space Administration | 91 | 86 | 95 |
| Department of Energy (excluding national laboratories) | 118 | 108 | 107 |
| Other federal agencies | 303 | 270 | 273 |
| Federal grants and contracts net revenue | \$3,529 | \$3,302 | \$3,259 |

Medical centers, net

Medical center revenues, net of allowances, increased \$1.2 billion, or 9.6 percent, in 2019 and increased \$0.8 billion, or 7.4 percent, in 2018. Revenues increased in 2019 due to higher patient days, increased outpatient visits and additional supplemental payments. Revenues increased in 2018 due to increases in both inpatient and outpatient volumes and higher supplemental payments. Revenues increased in 2018 due to a full year of operations for the new UCSD Jacobs Medical Center which opened in November 2016.

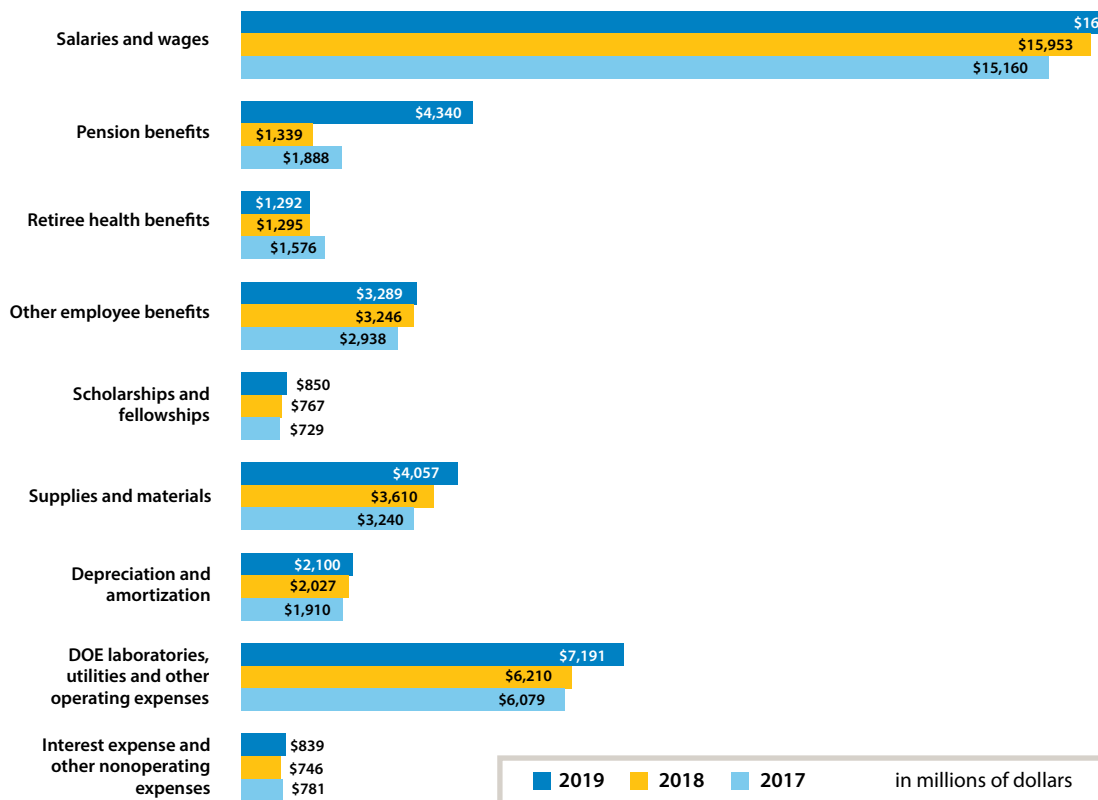
Educational activities and auxiliary enterprises, net

Revenue from educational activities, primarily medical professional fees, net of allowances, grew by \$338.5 million, or 9.2 percent, in 2019 and \$337.9 million, or 10.1 percent, in 2018. The growth is generally associated with an expanded patient base and improved collections.

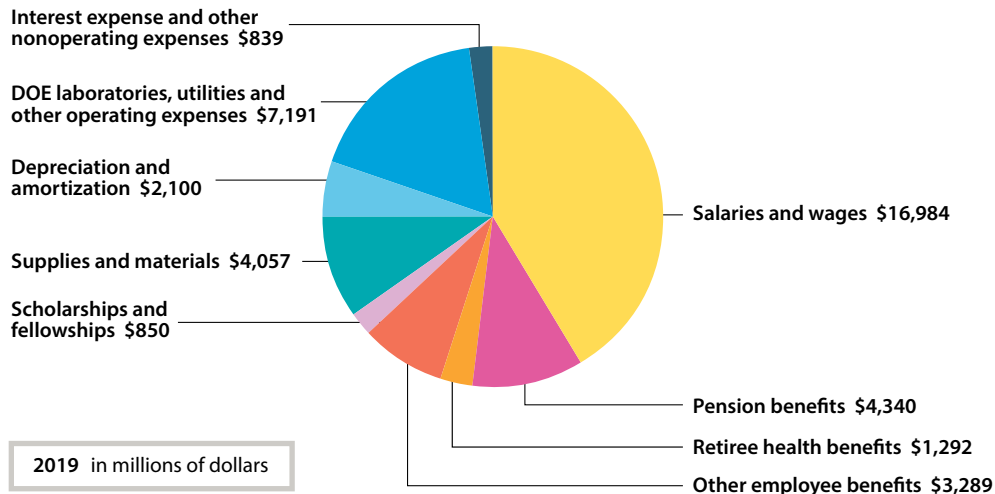
Auxiliary enterprises include housing, food service, parking, bookstores, student centers, unions and child care centers. Revenue from auxiliary enterprises, net of allowances, grew by \$32.0 million, or 1.9 percent, in 2019 and \$105.6 million, or 6.7 percent in 2018. Auxiliary revenues increased consistent with enrollment and the University's initiative to expand campus housing while minimizing increases in housing costs for students.

Expenses associated with core activities

Expenses associated with the University's core activities, including those classified as nonoperating expenses, were \$40.9 billion, \$35.2 billion and \$34.3 billion in 2019, 2018 and 2017, respectively. Expenses increased in 2019 by \$5.7 billion and in 2018 by \$0.9 billion. The University's operations continued to grow, principally at the medical centers, and salaries and employee benefits increased consistent with the overall growth in operations. In 2019, pension expense, representing the largest change, increased by \$3.0 billion in 2019 due to changes in assumptions as a result of the experience study. Expenses in the various categories are as follows:



Categories of both operating and nonoperating expenses related to the University's core activities in 2019 are as follows:



Salaries and benefits

Approximately 63.3 percent of the University's expenses were related to salaries and benefits. There were 162,600 full-time equivalent (FTE) employees in 2019, excluding employees who were associated with LBNL, whose salaries and benefits were included as laboratory expenses, as compared to 158,900 FTEs in 2018.

Salaries and benefits increased by 18.7 percent in 2019. In 2019, salaries increased by 6.5 percent, 2.4 percent due to an increase in the number of FTEs and 4.1 percent due to an increase in the average salary per FTE. Employee benefits, excluding pension and post-retirement health care benefits, increased by \$43.0 million, or 1.3 percent, in 2019, which is less than the increase in FTEs due to management of health care costs. Pension expense increased by \$3.0 billion, or 224.0 percent, due to changes in assumptions related to the experience study. Retiree health benefits expense decreased by \$2.6 million or 0.2 percent due to the decrease in the discount rate offset by reducing the inflation assumption and management of health care costs.

Salaries and benefits increased by 1.3 percent in 2018. In 2018, salaries increased by 5.2 percent, 2.8 percent due to an increase in the number of FTEs and 2.3 percent due to an increase in the average salary per FTE. Employee benefits, excluding pension and post-retirement health care benefits, increased by \$307.8 million, or 10.5 percent in 2018, due to higher health insurance costs. Pension expense decreased by \$548.1 million or 29.0 percent due to better than expected investment returns. Retiree health expense decreased by \$280.8 million or 17.8 percent due to the higher discount rate in 2018.

Scholarships and fellowships

The University places a high priority on student financial aid as part of its commitment to affordability. Scholarship allowances, representing financial aid and fee waivers awarded by the University, were \$2.3 billion, \$2.3 billion and \$2.1 billion in 2019, 2018 and 2017, respectively. Scholarships and fellowships, representing payments of financial aid made directly to students and reported as an operating expense were \$850.4 million, \$766.9 million and \$728.6 million in 2019, 2018 and 2017, respectively. On a combined basis, as the University continues its commitment to provide financial support for needy students, financial aid in all forms increased by \$77.9 million, or 3.5 percent, in 2019 as compared to 2018, and by \$180.8 million, or 8.7 percent, in 2018 as compared to 2017. Increases in financial aid, scholarships and fellowships in both 2019 and 2018 are consistent with increases in enrollment, tuition and fees and housing costs since the University's practice is to minimize the impact of cost increases on first-generation and low-income students.

Supplies and materials

During 2019 and 2018, supplies and materials costs increased by \$446.9 million, or 12.4 percent and \$370.6 million, or 11.4 percent, respectively. The largest increases occurred at the medical centers due to higher patient volumes. In 2019, supply costs also increased for research activities related to the increased federal contract and grant activities. In recent years, there has been inflationary pressure on the costs for medical supplies and laboratory instruments and higher costs for general supplies necessary to support expanded medical patient volumes. The University continues to find opportunities to manage the costs of supplies and materials.

Other expenses

Other expenses consist of a variety of expense categories, including travel, rent, insurance, legal settlements and repairs and maintenance, plus any gain or loss on disposals of capital assets and other nonoperating expenses.

Operating losses

In accordance with the GASB's reporting standards, operating losses were \$7.5 billion, \$4.4 billion and \$5.4 billion in 2019, 2018 and 2017, respectively. The operating losses in 2019, 2018 and 2017 were offset by \$5.1 billion, \$4.9 billion and \$4.4 billion, respectively, of net nonoperating revenue that supports core operating activities of the University. Expenses exceeded revenues associated with core activities in 2019 by \$2.4 billion, in 2018 revenues exceeded expenses by \$0.5 billion and in 2017 expenses exceeded revenues by \$0.9 billion. These fluctuations have been primarily driven by changes in pension expenses.

Other nonoperating activities

The University's other nonoperating activities, consisting of net appreciation or depreciation in the fair value of investments, are noncash transactions and, therefore, are not available to support operating expenses. In 2019, 2018 and 2017, the University recognized net appreciation in the fair value of investments of \$1.4 billion, \$0.9 billion and \$1.7 billion, respectively. The University's portfolio experienced positive returns in the equity markets.

Other changes in net position

Similar to other nonoperating activities discussed above, other changes in net position are also not available to support the University's operating expenses in the current year. State capital appropriations and capital gifts and grants may only be used for the purchase or construction of the specified capital assets. Only income earned from gifts of permanent endowments is available in future years to support the specified program.

THE UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS

Separate foundations at each individual campus provide valuable assistance in fundraising, public outreach and other support for the missions of the campus and the University. Although independent boards govern each of the foundations, they are affiliated with, and their assets are dedicated for, the benefit of the University of California.

The Campus Foundations' Financial Position

The campus foundations' statement of net position presents their combined financial position at the end of the year. It displays all of the campus foundations' assets, liabilities, deferred inflows and net position. The difference between assets, liabilities and deferred inflows is net position, representing a measure of the current financial condition of the campus foundation.

The major components of the combined assets, liabilities and net position of the campus foundations at June 30, 2019, 2018 and 2017 are as follows:

| <i>(in millions of dollars)</i> | | | |
|--|-----------------|----------------|----------------|
| | 2019 | 2018 | 2017 |
| ASSETS | | | |
| Investments | \$9,978 | \$9,240 | \$8,207 |
| Investment of cash collateral | 36 | 45 | 43 |
| Accounts receivable, net | 37 | 13 | 40 |
| Pledges receivable, net | 888 | 1,006 | 866 |
| Other assets | 579 | 567 | 348 |
| Total assets | 11,518 | 10,871 | 9,504 |
| LIABILITIES | | | |
| Accounts payable and other current liabilities | 50 | 52 | 113 |
| Securities lending collateral | 36 | 45 | 43 |
| Obligations under life income agreements and funds held for others | 483 | 467 | 420 |
| Other noncurrent liabilities | 278 | 272 | 253 |
| Total liabilities | 847 | 836 | 829 |
| DEFERRED INFLOWS OF RESOURCES | 229 | 232 | 209 |
| NET POSITION | | | |
| Restricted: | | | |
| Nonexpendable | 4,885 | 4,407 | 3,968 |
| Expendable | 5,018 | 4,966 | 4,305 |
| Unrestricted | 539 | 430 | 193 |
| Total net position | \$10,442 | \$9,803 | \$8,466 |

Investments increased in 2019 and 2018 due to the performance of the financial markets. The Board of Trustees for each campus foundation is responsible for its specific investment policy, although asset allocation guidelines are recommended to campus foundations by the Investments Committee of The Regents. The Boards of Trustees may determine that all or a portion of their investments will be managed by the University's Chief Investment Officer. The Chief Investment Officer managed \$2.9 billion, \$2.6 billion and \$2.2 billion of the campus foundations' investments at the end of 2019, 2018 and 2017, respectively.

Net position represents the residual interest in the assets after all liabilities and deferred inflows are deducted. Restricted, nonexpendable net position includes the corpus of the campus foundations' permanent endowments. Restricted, expendable net position is subject to externally imposed restrictions governing their use. Restricted, expendable net position is only available in accordance with the restrictions placed upon them and may include endowment income and investment gains, subject to each individual campus foundation's spending policy; and support received from gifts. New gifts less gifts transferred to campuses, and changes in the fair value of investments were the primary reasons for the changes in net position in 2019 and 2018.

The Campus Foundations' Results of Operations

The campus foundations' combined statement of revenues, expenses and changes in net position is a presentation of their operating results for the year. It indicates whether their financial condition has improved or deteriorated during the year.

A summarized comparison of the operating results for 2019, 2018 and 2017 is as follows:

| <i>(in millions of dollars)</i> | | | |
|--|-----------------|----------------|----------------|
| | 2019 | 2018 | 2017 |
| OPERATING REVENUES | | | |
| Private gifts and other revenues | \$919 | \$1,341 | \$868 |
| Total operating revenues | 919 | 1,341 | 868 |
| OPERATING EXPENSES | | | |
| Grants to campuses and other expenses | 1,170 | 1,136 | 970 |
| Total operating expenses | 1,170 | 1,136 | 970 |
| Operating income (loss) | (251) | 205 | (102) |
| NONOPERATING REVENUES | | | |
| Investment income | 71 | 77 | 74 |
| Net appreciation in fair value of investments | 361 | 646 | 792 |
| Income before other changes in net position | 181 | 928 | 764 |
| OTHER CHANGES IN NET POSITION | | | |
| Permanent endowments | 458 | 409 | 287 |
| Increase in net position | 639 | 1,337 | 1,051 |
| NET POSITION | | | |
| Beginning of year | 9,803 | 8,466 | 7,415 |
| End of year | \$10,442 | \$9,803 | \$8,466 |

Operating expenses generally consist of grants to University campuses. Grants to the campuses include current-use donor gifts, the annual income distributions on endowments and gift fees. Grants to campuses typically follow the pattern indicated by private gift revenue; however, the campuses' programmatic needs are also taken into consideration, subject to abiding by the restricted purposes specified by the donor for the use of gifts and endowment income.

Since gifts are transferred only when the cash is received and investment income is classified as nonoperating income, operating losses can occur when grants distributed to the campuses exceed private gift revenue.

THE UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM (UCRS)

UCRS is a valuable component of the comprehensive benefits package offered to employees of the University. UCRS consists of two defined benefit plans and four defined contribution plans. The defined benefit plans include the University of California Retirement Plan (UCRP) for members and the California Public Employees Retirement System (PERS) Voluntary Early Retirement Incentive Plan (UC-VERIP) for certain University employees that were members of PERS who elected early retirement. The University of California Retirement Savings Program (UCRSP) includes four defined contribution plans (Defined Contribution Plan, Supplemental Defined Contribution Plan, 403(b) Plan and 457(b) Plan), with several investment portfolio options for participants' elective and non-elective contributions.

UCRS' Financial Position and Result of Operations

The statement of plans' fiduciary net position presents the financial position of UCRS at the end of the fiscal year. It displays all of the retirement system's assets, liabilities and net position. The difference between assets and liabilities is the net position held in trust for pension benefits. These represent amounts available to provide pension benefits to members of UCRP and participants in the defined contribution plans and UC-VERIP. At June 30, 2019, UCRS' assets were \$104.8 billion, liabilities were \$8.6 billion and net position held in trust for pension benefits were \$96.1 billion, an increase of \$4.9 billion from 2018. At June 30, 2018, UCRS' assets were \$99.1 billion, liabilities were \$7.9 billion and net position held in trust for pension benefits were \$91.2 billion, an increase of \$6.6 billion from 2017.

The major components of the assets, liabilities and net position available for pension benefits for 2019, 2018 and 2017 are as follows:

(in millions of dollars)

| | 2019 | 2018 | 2017 |
|--|-----------------|-----------------|-----------------|
| ASSETS | | | |
| Investments | \$95,457 | \$90,873 | \$82,574 |
| Participants' interests in mutual funds | 1,692 | 1,585 | 3,351 |
| Investment of cash collateral | 6,129 | 6,158 | 6,842 |
| Other assets | 1,488 | 465 | 1,203 |
| Total assets | 104,766 | 99,081 | 93,970 |
| LIABILITIES | | | |
| Securities lending collateral | 6,127 | 6,157 | 6,838 |
| Other liabilities | 2,517 | 1,699 | 2,470 |
| Total liabilities | 8,644 | 7,856 | 9,308 |
| NET POSITION HELD IN TRUST FOR PENSION BENEFITS | | | |
| Members' defined benefit plan benefits | 70,344 | 66,839 | 62,179 |
| Participants' defined contribution plan benefits | 25,779 | 24,386 | 22,483 |
| Total net position held in trust for pension benefits | \$96,123 | \$91,225 | \$84,662 |

The statements of changes in the plans' fiduciary net position are a presentation of UCRS' operating results. The statements indicate whether the financial condition has improved or deteriorated during the year. A summarized comparison of the operating results for 2019, 2018 and 2017 is as follows:

(in millions of dollars)

| | 2019 | 2018 | 2017 |
|--|----------------|----------------|-----------------|
| ADDITIONS | | | |
| Contributions | \$4,815 | \$4,760 | \$4,779 |
| Net appreciation (depreciation) in fair value of investments | 3,701 | 5,099 | 8,617 |
| Investment and other income, net | 1,725 | 1,556 | 1,437 |
| Total additions | 10,241 | 11,415 | 14,833 |
| DEDUCTIONS | | | |
| Benefit payments and participant withdrawals | 5,275 | 4,812 | 4,700 |
| Plan expenses | 68 | 40 | 53 |
| Total deductions | 5,343 | 4,852 | 4,753 |
| Increase in net position held in trust for pension benefits | \$4,898 | \$6,563 | \$10,080 |

The Regents' asset allocation strategies are intended to generate investment returns over time in accordance with investment objectives and at acceptable levels of risk. The overall investment return for UCRP was 6.0 percent in 2019 as compared to 7.8 percent in 2018 and 14.5 percent in 2017.

The participants' interests in mutual funds, representing defined contribution plan contributions to certain mutual funds on a custodial plan basis, fluctuate based upon market performance of the mutual funds and participant investment elections.

UCRS participates in the University's securities lending program as a means to augment income. All borrowers are required to provide collateral and the University records a liability to the borrower for cash collateral received and held by the University for securities on loan at the end of the year. Investments in cash collateral and the securities lending collateral liability fluctuate in response to changes in demand from borrowers and the availability of securities based upon the UCRS asset allocation mix.

Contributions to UCRP were \$3.4 billion in 2019, 2018 and 2017, including contributions from employees of \$1.0 billion, \$0.9 billion and \$0.9 billion in 2019, 2018 and 2017, respectively. Contributions also included \$169.0 million and \$171.0 million, received from the state of California in 2018 and 2017, respectively, and additional deposits of \$500.0 million, \$391.8 million and \$481.0 million made by the University in 2019, 2018 and 2017, respectively. University contribution rates to UCRP were 14.0 percent of covered payroll in 2019, 2018 and 2017. Employee contribution rates ranged between 7.0 percent and 9.0 percent in 2019, 2018 and 2017. The University contribution rate will be increased starting July 1, 2020 by 0.5 percent per year, on July 1st, for six years to 17.0 percent.

Benefit payments and participant withdrawals were \$463.0 million more in 2019 than in 2018 and \$112.2 million more in 2018 than in 2017. Payments from UCRP increase each year due to a growing number of retirees receiving payments and cost-of-living adjustments (COLAs). Benefit payments from UCRSP fluctuate based upon member withdrawals. Participant withdrawals increased by \$234.5 million, or 19.2 percent, in 2019 as compared to 2018, and decreased by \$154.2 million, or 11.2 percent, in 2018 as compared to 2017. As of June 30, 2019, over 79,100 retirees and beneficiaries were receiving payments from UCRS as compared to over 75,900 as of June 30, 2018 and 73,000 as of June 30, 2017.

The net pension liability for UCRP was \$18.1 billion in 2019, \$9.8 billion in 2018 and \$10.7 billion in 2017. The increase in net pension liability for 2019 of \$8.3 billion was primarily due to lower than expected investment returns on the UCRP investment portfolio and assumption changes, including a lower discount rate, longer mortality and lower inflation. The decrease in net pension liability for 2018 of \$0.9 billion was due to higher than expected investment returns on the UCRP portfolio. The ratio of plan net position to total pension liability was 79.5 percent in 2019, 87.2 percent in 2018 and 85.3 percent in 2017.

Additional information on the retirement plans can be obtained from the 2019 annual reports of the University of California Retirement System by writing to the University of California, Office of the President, Human Resources and Benefits, Post Office Box 24570, Oakland, California 94623.

THE UNIVERSITY OF CALIFORNIA RETIREE HEALTH BENEFIT TRUST (UCRHBT)

UCRHBT was established on July 1, 2007 to allow certain University locations — primarily campuses and medical centers — that share the risks, rewards and costs of providing for retiree health benefits the opportunity to fund such benefits on a cost-sharing basis and accumulate funds under an arrangement segregated from University assets. The University contributes toward retiree medical and dental benefits, although it does not contribute toward the cost of other benefits available to retirees. The DOE laboratories do not participate in UCRHBT, therefore the DOE has no interest in the trust's assets.

UCRHBT's Financial Position and Result of Operations

The statement of trust's fiduciary net position presents the financial position of the UCRHBT at the end of the fiscal year. It displays the UCRHBT's assets, liabilities and net position. The difference between assets and liabilities is the net position held in trust for retiree health benefits. This represents amounts available to provide retiree health benefits to participants.

The major components of the assets, liabilities and net position available for retiree health benefits for 2019, 2018 and 2017 were as follows:

(in millions of dollars)

| | 2019 | 2018 | 2017 |
|---|--------------|--------------|--------------|
| ASSETS | | | |
| Investments | \$136 | \$128 | \$98 |
| Other assets | 40 | 24 | 26 |
| Total assets | 176 | 152 | 124 |
| LIABILITIES | | | |
| Total liabilities | 19 | 18 | 17 |
| NET POSITION HELD IN TRUST FOR RETIREE HEALTH BENEFITS | | | |
| Total net position held in trust for retiree health benefits | \$157 | \$134 | \$107 |

The statement of changes in the trust's fiduciary net position is a presentation of UCRHBT's operating results and indicates whether the financial condition has improved or deteriorated during the year. Summarized operating results for 2019, 2018 and 2017 are as follows:

(in millions of dollars)

| | 2019 | 2018 | 2017 |
|---|-------------|-------------|-------------|
| ADDITIONS | | | |
| Contributions | \$333 | \$338 | \$328 |
| Investment and other income | 3 | 2 | |
| Total additions | 336 | 340 | 328 |
| DEDUCTIONS | | | |
| Insurance premiums and payments | 309 | 309 | 290 |
| Plan expenses | 4 | 4 | 4 |
| Total deductions | 313 | 313 | 294 |
| Increase in net position held in trust for retiree health benefits | \$23 | \$27 | \$34 |

Contributions for retiree health benefits are made by the campuses and medical centers based upon projected pay-as-you-go financing. The University acts as a third-party administrative agent on behalf of UCRHBT to pay health care insurers and administrators amounts currently due.

The retiree health benefits provided under the University's plan and any liabilities related to the future funding requirements for the retiree health benefits are reported by the University. The net retiree health liability for UCRHBT was \$19.2 billion, \$18.3 billion and \$18.7 billion in 2019, 2018 and 2017, respectively.

LOOKING FORWARD

The University of California is a world center of learning, known for generating a steady stream of talent, knowledge and social benefits, and has always been at the center of California's capacity to innovate. The excellence of its programs attracts the best students, leverages hundreds of millions of dollars in state, federal and private funding and promotes discovery of new knowledge that fuels economic growth.

The Governor signed the 2019-20 State Budget Act on June 27, 2019. State funds allocated to the University totaled \$3.9 billion, which includes an increase of 7.1 percent, or \$247.5 million in new ongoing support. The additional funds address general operating cost increases, increasing enrollment by 4,860 new California undergraduates above 2018-19 levels by 2020-21 and various other programs. The Budget Act also includes \$215.1 million in one-time funding for various programs across the University including \$143.5 million for deferred maintenance.

The University remains highly competitive in attracting federal grants and contracts revenue, with fluctuations in the awards received closely paralleling trends in the budgets of federal research granting agencies. Over two-thirds of the University's federal research revenue comes from two agencies, the Department of Health and Human Services, primarily through the National Institutes of Health, and the National Science Foundation. Other agencies that figure prominently in the University's awards are the Department of Education, Department of Defense, the National Aeronautics and Space Administration and the Department of Energy. The University is a unique national resource for helping the nation address competitiveness and economic initiatives.

The University's medical centers have positive operating margins, although they continue to face financial and competitive challenges in their regional markets, along with the added costs and responsibilities related to their function as academic institutions. The demand for health care services and the cost of providing them continue to increase significantly. In addition to the rising costs of salaries, benefits and medical supplies faced by hospitals across the state, along with the costs of maintaining and upgrading facilities, the University's medical centers also face additional costs associated with seismic retrofitting, new technologies, biomedical research, the education and training of health care professionals and the care for a disproportionate share of the medically underserved in California. Other than Medicare and Medi-Cal (California's Medicaid program), health insurance payments do not recognize the added cost of teaching in their payment to academic medical centers. The growth in costs of the publicly funded programs and health care reform will likely continue to reduce rates or limit payment growth, placing downward pressure on operating results for the medical centers.

The University must have a balanced array of many categories of facilities to meet its education, research and public service goals and continues to assess its long-term capital requirements. Support for the University's capital program is expected to be provided from a combination of sources, including the state of California, external financing, gifts and other sources.

Additional budget information can be found at <http://universityofcalifornia.edu/news/budget/welcome.html>. Additional information concerning state budget matters and the state's financial condition may be found on the website of the California Department of Finance at <http://www.dof.ca.gov>.

CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

Certain information provided by the University, including written as outlined above or oral statements made by its representatives, may contain forward-looking statements as defined in the Private Securities Litigation Reform Act of 1995. All statements, other than statements of historical facts, which address activities, events or developments that the University expects or anticipates will or may occur in the future contain forward-looking information.

In reviewing such information, it should be kept in mind that actual results may differ materially from those projected or suggested in such forward-looking information. This forward-looking information is based upon various factors and was derived using various assumptions. The University does not undertake to update forward-looking information contained in this report or elsewhere to reflect actual results, changes in assumptions or changes in other factors affecting such forward-looking information.

UNIVERSITY OF CALIFORNIA
STATEMENTS OF NET POSITION

| At June 30, 2019 and 2018 (in thousands of dollars) | UNIVERSITY OF CALIFORNIA | | CAMPUS FOUNDATIONS | |
|--|--------------------------|--------------------|---------------------|--------------------|
| | 2019 | 2018 | 2019 | 2018 |
| ASSETS | | | | |
| Cash and cash equivalents | \$143,127 | \$249,523 | \$458,594 | \$447,377 |
| Short-term investments | 4,923,749 | 4,890,075 | 875,652 | 857,844 |
| Investment of cash collateral | 839,994 | 1,054,406 | 32,733 | 40,999 |
| Investments held by trustees | 914,176 | 26,803 | | |
| Accounts receivable, net | 5,406,680 | 4,061,888 | 37,496 | 13,102 |
| Pledges receivable, net | 28,039 | 25,049 | 201,299 | 234,294 |
| Current portion of notes and mortgages receivable, net | 66,357 | 68,482 | | 181 |
| Inventories | 266,839 | 244,706 | | |
| Department of Energy receivable | 155,027 | 133,472 | | |
| Other current assets | 401,781 | 400,030 | 3,959 | 4,622 |
| Current assets | 13,145,769 | 11,154,434 | 1,609,733 | 1,598,419 |
| Investments | 23,783,632 | 22,478,922 | 9,102,737 | 8,381,736 |
| Investment of cash collateral | 114,946 | 110,301 | 3,651 | 4,289 |
| Investments held by trustees | 331,772 | 388,361 | | |
| Pledges receivable, net | 30,036 | 32,690 | 686,693 | 771,889 |
| Notes and mortgages receivable, net | 379,981 | 386,342 | 250 | 250 |
| Department of Energy receivable | 1,579,117 | 973,652 | | |
| Capital assets, net | 34,229,473 | 32,325,107 | | |
| Other noncurrent assets | 282,762 | 202,996 | 115,047 | 115,177 |
| Noncurrent assets | 60,731,719 | 56,898,371 | 9,908,378 | 9,273,341 |
| Total assets | 73,877,488 | 68,052,805 | 11,518,111 | 10,871,760 |
| DEFERRED OUTFLOWS OF RESOURCES | 10,701,222 | 4,668,926 | | |
| LIABILITIES | | | | |
| Accounts payable | 3,236,356 | 2,178,244 | 15,441 | 22,071 |
| Accrued salaries | 1,260,368 | 642,753 | | |
| Employee benefits | 574,856 | 393,296 | | |
| Unearned revenue | 1,505,912 | 1,423,686 | 6,265 | 5,535 |
| Collateral held for securities lending | 954,668 | 1,164,481 | 36,384 | 45,288 |
| Commercial paper | 574,483 | 781,804 | | |
| Current portion of long-term debt | 1,696,499 | 1,371,030 | | |
| Funds held for others | 433,213 | 409,934 | 314,910 | 298,060 |
| Department of Energy laboratories' liabilities | 137,481 | 116,111 | | |
| Other current liabilities | 2,017,093 | 1,898,204 | 46,404 | 44,180 |
| Current liabilities | 12,390,929 | 10,379,543 | 419,404 | 415,134 |
| Federal refundable loans | 248,645 | 244,852 | | |
| Self-insurance | 715,417 | 584,186 | | |
| Obligations under life income agreements | 35,118 | 35,293 | 150,069 | 149,391 |
| Long-term debt | 22,313,160 | 21,505,943 | | |
| Net pension liability | 18,117,941 | 9,775,120 | | |
| Net retiree health liability | 19,861,686 | 18,862,265 | | |
| Other noncurrent liabilities | 738,640 | 569,396 | 278,076 | 271,825 |
| Noncurrent liabilities | 62,030,607 | 51,577,055 | 428,145 | 421,216 |
| Total liabilities | 74,421,536 | 61,956,598 | 847,549 | 836,350 |
| DEFERRED INFLOWS OF RESOURCES | 6,828,085 | 6,609,704 | 228,675 | 232,018 |
| NET POSITION | | | | |
| Net investment in capital assets | 14,284,354 | 13,578,222 | | |
| Restricted: | | | | |
| Nonexpendable: Endowments and gifts | 1,176,981 | 1,148,699 | 4,885,413 | 4,408,143 |
| Nonexpendable: Reserved for minority interests | 47,770 | 33,754 | | |
| Expendable | 8,211,427 | 8,272,450 | 5,017,760 | 4,965,668 |
| Unrestricted | (20,391,443) | (18,877,696) | 538,714 | 429,581 |
| Total net position | \$3,329,089 | \$4,155,429 | \$10,441,887 | \$9,803,392 |

See accompanying Notes to Financial Statements.

UNIVERSITY OF CALIFORNIA

STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION

| <i>Years ended June 30, 2019 and 2018 (in thousands of dollars)</i> | UNIVERSITY OF CALIFORNIA | | CAMPUS FOUNDATIONS | |
|---|--------------------------|--------------------|---------------------|--------------------|
| | 2019 | 2018 | 2019 | 2018 |
| OPERATING REVENUES | | | | |
| Student tuition and fees, net | \$5,170,171 | \$4,838,764 | | |
| Grants and contracts, net: | | | | |
| Federal | 3,528,753 | 3,302,446 | | |
| State | 548,975 | 567,532 | | |
| Private | 1,539,487 | 1,523,778 | | |
| Local | 359,352 | 315,424 | | |
| Medical centers, net | 13,208,083 | 12,064,598 | | |
| Educational activities, net | 4,009,029 | 3,670,545 | | |
| Auxiliary enterprises, net | 1,716,776 | 1,684,759 | | |
| Department of Energy laboratories | 1,577,244 | 1,062,428 | | |
| Campus foundation private gifts | | | \$918,363 | \$1,340,158 |
| Other operating revenues, net | 937,427 | 970,991 | 967 | 1,237 |
| Total operating revenues | 32,595,297 | 30,001,265 | 919,330 | 1,341,395 |
| OPERATING EXPENSES | | | | |
| Salaries and wages | 16,984,570 | 15,952,983 | | |
| Pension benefits | 4,340,355 | 1,339,462 | | |
| Retiree health benefits | 1,292,332 | 1,294,888 | | |
| Other employee benefits | 3,288,909 | 3,245,927 | | |
| Supplies and materials | 4,057,105 | 3,610,171 | | |
| Depreciation and amortization | 2,100,228 | 2,027,343 | | |
| Department of Energy laboratories | 1,569,702 | 1,054,475 | | |
| Scholarships and fellowships | 850,390 | 766,857 | | |
| Utilities | 336,232 | 303,773 | | |
| Campus foundation grants | | | 1,134,265 | 1,100,287 |
| Other operating expenses | 5,283,590 | 4,850,982 | 35,948 | 35,917 |
| Total operating expenses | 40,103,413 | 34,446,861 | 1,170,213 | 1,136,204 |
| Operating income (loss) | (7,508,116) | (4,445,596) | (250,883) | 205,191 |
| NONOPERATING REVENUES (EXPENSES) | | | | |
| State educational appropriations | 3,508,102 | 3,386,119 | | |
| State hospital fee grants | 33,609 | 21,670 | | |
| Build America Bonds federal interest subsidies | 53,071 | 57,179 | | |
| Federal Pell Grants | 437,828 | 421,693 | | |
| Private gifts, net | 1,441,330 | 1,315,092 | | |
| Investment income: | | | | |
| Short Term Investment Pool and other, net | 339,661 | 307,225 | | |
| Endowment, net | 93,608 | 97,134 | | |
| Securities lending, net | 8,459 | 8,958 | 385 | 366 |
| Campus foundations | | | 71,123 | 76,988 |
| Net appreciation in fair value of investments | 1,386,797 | 889,534 | 360,862 | 646,441 |
| Interest expense | (767,358) | (746,476) | (27) | (50) |
| Gain (loss) on disposal of capital assets | (16,258) | 7,779 | | |
| Other nonoperating revenues (expenses) | (55,486) | 62,308 | (1,316) | (23) |
| Net nonoperating revenues | 6,463,363 | 5,828,215 | 431,027 | 723,722 |
| Income (loss) before other changes in net position | (1,044,753) | 1,382,619 | 180,144 | 928,913 |
| OTHER CHANGES IN NET POSITION | | | | |
| Capital gifts and grants, net | 195,348 | 403,164 | | |
| State capital appropriations | | 32 | | |
| Permanent endowments | 23,065 | 25,328 | 458,351 | 408,707 |
| Increase (decrease) in net position | (826,340) | 1,811,143 | 638,495 | 1,337,620 |
| NET POSITION | | | | |
| Beginning of year, as previously reported | 4,155,429 | 2,354,476 | 9,803,392 | 8,465,772 |
| Cumulative effect of accounting change | | (10,190) | | |
| Beginning of year, restated | 4,155,429 | 2,344,286 | 9,803,392 | 8,465,772 |
| End of year | \$3,329,089 | \$4,155,429 | \$10,441,887 | \$9,803,392 |

See accompanying Notes to Financial Statements.

UNIVERSITY OF CALIFORNIA
STATEMENTS OF CASH FLOWS

| | UNIVERSITY OF CALIFORNIA | | CAMPUS FOUNDATIONS | |
|---|--------------------------|--------------------|--------------------|------------------|
| | 2019 | 2018 | 2019 | 2018 |
| <i>Years ended June 30, 2019 and 2018 (in thousands of dollars)</i> | | | | |
| CASH FLOWS FROM OPERATING ACTIVITIES | | | | |
| Student tuition and fees | \$5,153,207 | \$4,820,829 | | |
| Grants and contracts | 6,010,358 | 5,571,346 | | |
| Medical centers | 13,032,546 | 11,831,671 | | |
| Educational activities | 3,903,724 | 3,646,918 | | |
| Auxiliary enterprises | 1,724,883 | 1,686,540 | | |
| Collection of loans from students and employees | 79,437 | 85,622 | | |
| Campus foundation private gifts | | | \$914,380 | \$997,932 |
| Payments to employees | (16,245,812) | (15,907,816) | | |
| Payments to suppliers and utilities | (9,034,484) | (8,228,056) | | |
| Payments for pension benefits | (2,191,594) | (2,208,680) | | |
| Payments for retiree health benefits | (377,826) | (319,927) | | |
| Payments for other employee benefits | (3,197,524) | (3,318,249) | | |
| Payments for scholarships and fellowships | (850,235) | (766,797) | | |
| Loans issued to students and employees | (68,465) | (176,940) | | |
| Payments to campuses and beneficiaries | | | (1,184,480) | (1,157,983) |
| Other receipts | 299,829 | 723,416 | 30,586 | 29,217 |
| Net cash used by operating activities | (1,761,956) | (2,560,123) | (239,514) | (130,834) |
| CASH FLOWS FROM NONCAPITAL FINANCING ACTIVITIES | | | | |
| State educational appropriations | 3,508,973 | 3,371,735 | | |
| Federal Pell Grants | 437,934 | 418,735 | | |
| State hospital fee grants | 33,609 | 21,670 | | |
| Gifts received for other than capital purposes: | | | | |
| Private gifts for endowment purposes | 20,023 | 59,022 | 386,618 | 332,939 |
| Other private gifts | 1,307,172 | 1,306,915 | | |
| Receipt of retiree health contributions from UCRP | 88,434 | 65,102 | | |
| Payment of retiree health contributions to UCRHBT | (81,722) | (82,597) | | |
| Receipts from UCRHBT | 399,047 | 372,702 | | |
| Payments for retiree health benefits made on behalf of UCRHBT | (438,586) | (385,462) | | |
| Student direct lending receipts | 555,283 | 562,158 | | |
| Student direct lending payments | (555,180) | (562,128) | | |
| Proceeds from debt issuance | 500,000 | | | |
| Commercial paper financing: | | | | |
| Proceeds from issuance | 33,761 | 7,576 | | |
| Payments of principal | (16,780) | (12,936) | | |
| Interest paid on debt | (29,737) | (22,554) | | |
| Other receipts | 8,902 | 122,345 | 9,241 | 22,593 |
| Net cash provided by noncapital financing activities | 5,771,133 | 5,242,283 | 395,859 | 355,532 |
| CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES | | | | |
| Commercial paper financing: | | | | |
| Proceeds from issuance | 193,506 | 642,547 | | |
| Payments of principal | (417,808) | (668,056) | | |
| Interest paid | (9,559) | (10,693) | | |
| State capital appropriations | 4,165 | (1,794) | | |
| Build America bonds federal interest subsidies | 46,586 | 57,845 | | |
| Capital gifts and grants | 150,394 | 130,358 | | |
| Proceeds from debt issuance | 436,994 | 4,645,296 | | |
| Proceeds from the sale of capital assets | 37,151 | 3,348 | | |
| Purchase of capital assets | (3,615,979) | (3,557,917) | | |
| Refinancing or prepayment of outstanding debt | | (1,013,739) | | |
| Scheduled principal paid on debt and capital leases | (430,238) | (394,905) | | |
| Interest paid on debt and capital leases | (901,107) | (878,075) | | |
| Net cash used by capital and related financing activities | (4,505,895) | (1,045,785) | | |

See accompanying Notes to Financial Statements.

UNIVERSITY OF CALIFORNIA
STATEMENTS OF CASH FLOWS *continued*

| | UNIVERSITY OF CALIFORNIA | | CAMPUS FOUNDATIONS | |
|---|--------------------------|----------------------|--------------------|--------------------|
| | 2019 | 2018 | 2019 | 2018 |
| <i>Years ended June 30, 2019 and 2018 (in thousands of dollars)</i> | | | | |
| CASH FLOWS FROM INVESTING ACTIVITIES | | | | |
| Proceeds from sales and maturities of investments | \$75,381,612 | \$83,531,008 | \$1,455,483 | \$1,642,416 |
| Purchase of investments | (75,445,081) | (85,520,749) | (1,672,071) | (1,751,480) |
| Investment income, net of investment expenses | 453,791 | 399,519 | 71,460 | 77,643 |
| Net cash provided (used) by investing activities | 390,322 | (1,590,222) | (145,128) | (31,421) |
| Net increase (decrease) in cash and cash equivalents | (106,396) | 46,153 | 11,217 | 193,277 |
| Cash and cash equivalents, beginning of year | 249,523 | 203,370 | 447,377 | 254,100 |
| Cash and cash equivalents, end of year | \$143,127 | \$249,523 | \$458,594 | \$447,377 |
| RECONCILIATION OF OPERATING INCOME (LOSS) TO NET CASH USED BY OPERATING ACTIVITIES | | | | |
| Operating income (loss) | (\$7,508,116) | (\$4,445,596) | (\$250,883) | \$205,191 |
| <i>Adjustments to reconcile operating loss to net cash used by operating activities:</i> | | | | |
| Depreciation and amortization expense | 2,100,228 | 2,027,343 | | |
| Noncash gifts | | | (112,580) | (141,530) |
| Allowance for uncollectible accounts | 252,838 | 257,198 | 856 | 3,775 |
| Loss on impairment of capital assets | 4,056 | 10,361 | | |
| <i>Change in assets and liabilities:</i> | | | | |
| Investments held by trustees | (17,062) | 10,254 | (3,287) | (1,186) |
| Accounts receivable | (587,066) | (639,229) | 2,401 | 6,796 |
| Pledges receivable | | | 113,671 | (147,333) |
| Inventories | (22,132) | (17,712) | | |
| Other assets | (143,490) | (179,961) | 2,802 | (7,095) |
| Accounts payable | 126,473 | 110,295 | 790 | (1,143) |
| Accrued salaries | 617,615 | (1,747) | | |
| Employee benefits | 174,466 | 15,765 | | |
| Unearned revenue | 80,162 | 225,169 | (761) | (55,807) |
| Department of Energy | (594,755) | 298,366 | | |
| Self-insurance | 127,478 | 116,108 | | |
| Obligations under life income agreements | | | (4,899) | (5,659) |
| Net pension liability | 2,665,176 | (1,200,507) | | |
| Net retiree health benefits liability | 857,147 | 874,018 | | |
| Other liabilities | 105,026 | (20,248) | 12,376 | 13,157 |
| Net cash used by operating activities | (\$1,761,956) | (\$2,560,123) | (\$239,514) | (\$130,834) |
| SUPPLEMENTAL NONCASH ACTIVITIES INFORMATION | | | | |
| Capital assets acquired through capital leases | \$16,328 | \$47,225 | | |
| Capital assets acquired with a liability at year end | 105,603 | 76,120 | | |
| Change in fair value of interest rate swaps classified as hedging derivatives | (75,322) | 35,393 | | |
| Gifts of capital assets | 46,971 | 294,873 | | |
| Other noncash gifts | 130,100 | 3,276 | \$172,898 | \$203,015 |
| Proceeds from issuance of blended component unit revenue bonds deposited with trustees | 717,135 | 382,747 | | |
| Beneficial interests in irrevocable split interest agreements administered by third parties | (15,348) | 1,114 | 16,887 | 12,818 |
| Noncash gifts for University-administered irrevocable split-interest agreements | | | 14,120 | 35,119 |

See accompanying Notes to Financial Statements.

UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM AND RETIREE HEALTH BENEFIT TRUST
STATEMENTS OF PLANS' AND TRUST'S FIDUCIARY NET POSITION

| | UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM (UCRS) | | UNIVERSITY OF CALIFORNIA RETIREE HEALTH BENEFIT TRUST (UCRHBT) | | TOTAL UCRS AND UCRHBT | |
|--|---|---------------------|--|------------------|-----------------------|---------------------|
| | 2019 | 2018 | 2019 | 2018 | 2019 | 2018 |
| <i>At June 30, 2019 and 2018 (in thousands of dollars)</i> | | | | | | |
| ASSETS | | | | | | |
| Investments | \$95,456,703 | \$90,872,718 | \$136,248 | \$128,091 | \$95,592,951 | \$91,000,809 |
| Participants' interests in mutual funds | 1,691,773 | 1,585,098 | | | 1,691,773 | 1,585,098 |
| Investment of cash collateral | 6,128,526 | 6,158,290 | | | 6,128,526 | 6,158,290 |
| Participant 403(b) loans | 193,766 | 184,388 | | | 193,766 | 184,388 |
| Accounts receivable: | | | | | | |
| Contributions from University and affiliates | 168,208 | 113,353 | 30,737 | 6,537 | 198,945 | 119,890 |
| Investment income | 83,927 | 90,314 | | | 83,927 | 90,314 |
| Security sales and other | 1,043,318 | 76,615 | 318 | 200 | 1,043,636 | 76,815 |
| Prepaid insurance premiums | | | 8,565 | 17,300 | 8,565 | 17,300 |
| Total assets | 104,766,221 | 99,080,776 | 175,868 | 152,128 | 104,942,089 | 99,232,904 |
| LIABILITIES | | | | | | |
| Payable to University | | | 18,959 | 18,547 | 18,959 | 18,547 |
| Payable for securities purchased | 2,132,979 | 1,612,039 | | | 2,132,979 | 1,612,039 |
| Member withdrawals, refunds and other payables | 383,595 | 86,664 | | | 383,595 | 86,664 |
| Collateral held for securities lending | 6,126,849 | 6,157,131 | | | 6,126,849 | 6,157,131 |
| Total liabilities | 8,643,423 | 7,855,834 | 18,959 | 18,547 | 8,662,382 | 7,874,381 |
| NET POSITION HELD IN TRUST | | | | | | |
| Members' defined benefit plan benefits | 70,343,741 | 66,838,838 | | | 70,343,741 | 66,838,838 |
| Participants' defined contribution plan benefits | 25,779,057 | 24,386,104 | | | 25,779,057 | 24,386,104 |
| Retiree health benefits | | | 156,909 | 133,581 | 156,909 | 133,581 |
| Total net position held in trust | \$96,122,798 | \$91,224,942 | \$156,909 | \$133,581 | \$96,279,707 | \$91,358,523 |

See accompanying Notes to Financial Statements.

UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM AND RETIREE HEALTH BENEFIT TRUST
STATEMENTS OF CHANGES IN PLANS' AND TRUST'S FIDUCIARY NET POSITION

| | UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM (UCRS) | | UNIVERSITY OF CALIFORNIA RETIREE HEALTH BENEFIT TRUST (UCRHBT) | | TOTAL UCRS AND UCRHBT | |
|---|---|---------------------|--|------------------|-----------------------|---------------------|
| | 2019 | 2018 | 2019 | 2018 | 2019 | 2018 |
| <i>Years ended June 30, 2019 and 2018 (in thousands of dollars)</i> | | | | | | |
| ADDITIONS | | | | | | |
| Contributions: | | | | | | |
| Members and employees | \$2,349,879 | \$2,216,388 | | | \$2,349,879 | \$2,216,388 |
| State | | 169,000 | | | | 169,000 |
| University | 2,465,178 | 2,374,352 | \$333,107 | \$338,436 | 2,798,285 | 2,712,788 |
| Total contributions | 4,815,057 | 4,759,740 | 333,107 | 338,436 | 5,148,164 | 5,098,176 |
| <i>Investment income (expense), net:</i> | | | | | | |
| Net appreciation in fair value of investments | 3,701,585 | 5,098,540 | | | 3,701,585 | 5,098,540 |
| Interest, dividends and other investment income | 1,671,203 | 1,508,186 | 3,195 | 1,634 | 1,674,398 | 1,509,820 |
| Securities lending income | 212,596 | 136,099 | | | 212,596 | 136,099 |
| Securities lending fees and rebates | (160,185) | (89,025) | | | (160,185) | (89,025) |
| Total investment income, net | 5,425,199 | 6,653,800 | 3,195 | 1,634 | 5,428,394 | 6,655,434 |
| Interest income from contributions receivable | 796 | 1,148 | | | 796 | 1,148 |
| Total additions | 10,241,052 | 11,414,688 | 336,302 | 340,070 | 10,577,354 | 11,754,758 |
| DEDUCTIONS | | | | | | |
| <i>Benefit payments:</i> | | | | | | |
| Retirement payments | 2,664,031 | 2,495,200 | | | 2,664,031 | 2,495,200 |
| Member withdrawals | 144,384 | 153,324 | | | 144,384 | 153,324 |
| Cost-of-living adjustments | 560,546 | 517,646 | | | 560,546 | 517,646 |
| Lump sum cashouts | 362,545 | 336,966 | | | 362,545 | 336,966 |
| Preretirement survivor payments | 51,011 | 49,329 | | | 51,011 | 49,329 |
| Disability payments | 30,102 | 30,259 | | | 30,102 | 30,259 |
| Death payments | 8,028 | 9,440 | | | 8,028 | 9,440 |
| Participant withdrawals | 1,454,549 | 1,220,081 | | | 1,454,549 | 1,220,081 |
| Total benefit payments | 5,275,196 | 4,812,245 | | | 5,275,196 | 4,812,245 |
| <i>Insurance premiums:</i> | | | | | | |
| Insured plans | | | 112,997 | 167,546 | 112,997 | 167,546 |
| Self-insured plans | | | 184,114 | 131,458 | 184,114 | 131,458 |
| Medicare Part B reimbursements | | | 11,563 | 10,340 | 11,563 | 10,340 |
| Total insurance premiums, net | | | 308,674 | 309,344 | 308,674 | 309,344 |
| <i>Other deductions:</i> | | | | | | |
| Plan administration | 54,833 | 29,981 | 4,300 | 3,859 | 59,133 | 33,840 |
| Other | 13,167 | 9,388 | | | 13,167 | 9,388 |
| Total other deductions | 68,000 | 39,369 | 4,300 | 3,859 | 72,300 | 43,228 |
| Total deductions | 5,343,196 | 4,851,614 | 312,974 | 313,203 | 5,656,170 | 5,164,817 |
| Increase in net position held in trust | 4,897,856 | 6,563,074 | 23,328 | 26,867 | 4,921,184 | 6,589,941 |
| NET POSITION HELD IN TRUST | | | | | | |
| Beginning of year | 91,224,942 | 84,661,868 | 133,581 | 106,714 | 91,358,523 | 84,768,582 |
| End of year | \$96,122,798 | \$91,224,942 | \$156,909 | \$133,581 | \$96,279,707 | \$91,358,523 |

See accompanying Notes to Financial Statements.

Notes to Financial Statements

Years ended June 30, 2019 and 2018

ORGANIZATION

The University of California (the University) was founded in 1868 as a public, state-supported institution. The California State Constitution provides that the University shall be a public trust administered by the corporation, "The Regents of the University of California," which is vested with full powers of organization and government, subject only to such legislative control necessary to ensure the security of its funds and compliance with certain statutory and administrative requirements. The majority of the 26-member independent governing board (The Regents) is appointed by the governor and approved by the state Senate. Various University programs and capital outlay projects are funded through appropriations from the state's annual Budget Act. The University's financial statements are discretely presented in the state's basic financial statements as a component unit.

FINANCIAL REPORTING ENTITY AND SIGNIFICANT ACCOUNTING POLICIES

Financial Reporting Entity

The University's financial statements include the accounts of ten campuses, five medical centers, a statewide agricultural extension program and the operations of most student government or associated student organizations as part of the primary financial reporting entity because The Regents has certain oversight responsibilities for these organizations. Organizations that are not significant or for which the University is not financially accountable, such as booster and alumni organizations, are not included in the reporting entity. However, cash invested with the University by these organizations, along with the related liability, is included in the statement of net position. The statement of revenues, expenses and changes in net position excludes the activities associated with these organizations.

Fiat Lux Risk and Insurance Company (Fiat Lux), the University's wholly owned captive insurance company, is a blended component unit of the University. The Regents is the sole corporate and voting member of Children's Hospital & Research Center Oakland (CHRCO), a private, not-for-profit 501(c)(3) corporation. Children's Hospital & Research Center Foundation, a not-for-profit public benefit corporation, is organized and operated for the purpose of supporting CHRCO. CHRCO, combined with its foundation, is a blended component unit of the University. In addition, the financial position and operating results of certain other legally separate organizations are included in the University's financial reporting entity on a blended basis if The Regents is determined to be financially accountable for the organization. These include legally separate organizations that provide research and housing services entirely, or almost entirely, to the University or otherwise exclusively, or almost exclusively, benefit the University.

The University has eleven legally separate, tax-exempt, affiliated campus foundations, one for each campus and the Lawrence Berkeley National Laboratory (LBNL). The economic resources received or held by the foundations are entirely for the benefit of the campuses. Because of the nature and significance of their relationship with the University, including their ongoing financial support, the campus foundations are reported under the Governmental Accounting Standards Board (GASB) requirements as discretely presented component units of the University.

Specific assets and liabilities and all revenues and expenses associated with the LBNL, a major United States Department of Energy (DOE) national laboratory operated and managed by the University under contract directly with the DOE, are included in the accompanying financial statements.

The Regents has fiduciary responsibility for the University of California Retirement System (UCRS) which includes two defined benefit plans, the University of California Retirement Plan (UCRP) and the University of California Voluntary Early Retirement Incentive Plan (UC-VERIP), and four defined contribution plans in the University of California Retirement Savings Program (UCRSP), consisting of the Defined Contribution Plan (DC Plan), the Supplemental Defined Contribution Plan (SDC Plan), the Tax-Deferred 403(b) Plan (403(b) Plan) and the 457(b) Deferred Compensation Plan (457(b) Plan). As a result, the UCRS statements of plans' fiduciary net position and changes in plans' fiduciary net position are shown as a fiduciary fund in the University's financial statements.

The Regents also has fiduciary responsibility for the University of California Retiree Health Benefit Trust (UCRHBT). As a result, UCRHBT's statements of trust's fiduciary net position and changes in trust's fiduciary net position are shown as a fiduciary fund in the University's financial statements. UCRHBT allows certain University locations and affiliates, primarily campuses and medical centers that share the risks, rewards and costs of providing for retiree health benefits, the opportunity to fund such benefits on a cost-sharing basis and to accumulate funds on a tax-exempt basis under an arrangement segregated from University assets. The Regents serves as Trustee of UCRHBT and has the authority to amend or terminate the trust.

Significant Accounting Policies

The financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America, using the economic resources measurement focus and the accrual basis of accounting. The University follows accounting principles issued by the GASB.

Government Accounting Standards Board (GASB) Statement No. 83, *Certain Asset Retirement Obligations*, was adopted by the University as of July 1, 2018. The Statement establishes guidance for determining the timing and pattern of recognition for liabilities and corresponding deferred outflow of resources related to asset retirement obligations. The Statement requires the measurement of an asset retirement obligation to be based on the best estimate of the current value of outlays expected to be incurred. The deferred outflow of resources associated with an asset retirement obligation is measured at the amount of the corresponding liability upon initial measurement and is generally recognized as an expense during the reporting periods that the asset provides service. The effects of reporting Statement No. 83 in the University's financial statements for the year ended June 30, 2018, were as follows:

(in thousands of dollars)

| | UNIVERSITY OF CALIFORNIA AS OF AND FOR THE YEAR ENDED JUNE 30, 2018 | | |
|--|--|---|--------------------|
| | AS PREVIOUSLY REPORTED | EFFECT OF ADOPTION OF STATEMENT NO. 83 | AS RESTATED |
| STATEMENT OF NET POSITION | | | |
| Deferred outflows of resources | \$4,649,403 | \$19,523 | \$4,668,926 |
| Other noncurrent liabilities | 538,381 | 31,015 | 569,396 |
| Noncurrent liabilities | 51,546,040 | 31,015 | 51,577,055 |
| Total liabilities | 61,925,583 | 31,015 | 61,956,598 |
| Unrestricted | (18,866,204) | (11,492) | (18,877,696) |
| Total net position | 4,166,921 | (11,492) | 4,155,429 |
| STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION | | | |
| Other nonoperating revenues | \$63,610 | (\$1,302) | \$62,308 |
| Net nonoperating revenues (expenses) | 5,829,517 | (1,302) | 5,828,215 |
| Income before other changes in net position | 1,383,921 | (1,302) | 1,382,619 |

The adoption of Statement No. 83 did not result in any adjustments to the financial statements of UCRS or UCRHBT.

GASB Statement No. 88, *Certain Disclosures Related to Debt, including Direct Borrowings and Direct Placements*, was implemented by the University as of July 1, 2018. This Statement defines debt for purposes of disclosures in notes to financial statements as a liability that arises from a contractual obligation to pay cash (or other assets that may be used in lieu of cash) in one or more payments to settle an amount that is fixed at the date the contractual obligation is established. This Statement requires additional disclosures related

to debt including providing additional information for direct borrowings and direct placements of debt separately from other debt. Implementation of Statement No. 88 had no impact on the financial statements.

The significant accounting policies of the University are as follows:

Cash and cash equivalents. The University and campus foundations consider all balances in demand deposit accounts to be cash. The University classifies all other highly liquid cash equivalents with original maturities less than one year as short-term investments. Certain campus foundations classify their deposits in the University's Short Term Investment Pool as a cash equivalent.

Investments. Investments are measured and reported at fair value. Securities are generally valued at the last sale price on the last business day of the fiscal year, as quoted on a recognized exchange or by utilizing an industry standard pricing service, when available. Securities for which no sale was reported as of the close of the last business day of the fiscal year are valued at the quoted bid price of a dealer who regularly trades in the security being valued. Investment in non-exchange traded debt and equity investments are valued using inputs provided by independent pricing services or by brokers/dealers who actively trade in these markets. Certain securities may be valued on a basis of a price provided by a single source.

Investments also include private equities, absolute return funds, real estate, real asset and certain corporate asset-backed securities. Private equities include venture capital partnerships, buyouts, real assets and international funds. Fair values for interests in private equity, absolute return partnerships and real estate partnerships are based on valuations provided by the general partners of the respective partnerships. The valuations are primarily based on the most recent net asset value (NAV) of the underlying investments. The NAV is reported by the external investment managers, including general partners, in accordance with their policies as described in their respective financial statements and offering memoranda. The most recent NAV is adjusted for capital calls, distributions and significant known valuation changes, if any, of its related portfolio through June 30, 2019 and 2018.

Interests in certain direct investments in real estate are estimated based upon independent appraisals. Because the private equity, real estate, real assets and absolute return partnerships, along with direct investments in real estate, are not readily marketable, their estimated value is subject to uncertainty and, therefore, may differ significantly from the value that would be used had a ready market for such investments existed. These investments are generally less liquid than other investments, and the value reported may differ from the values that would have been reported had a ready market for these investments existed.

For other investments, the University considers various factors to estimate fair value, such as the timing of the transaction, the market in which the company operates, comparable transactions, company performance and projections as well as discounted cash flow analysis. The selection of an appropriate technique may be affected by the availability and general reliability of relevant inputs. In some cases, one valuation technique may provide the best indication of fair value while in other circumstances, multiple valuation techniques may be appropriate. Furthermore, the University may review the investment's underlying portfolio as well as engage external appraisers, depending on the nature of the investment.

The University exercises due diligence in assessing the external managers' use of and adherence to fair value principles. In conjunction with these procedures, estimated fair value is determined by consideration of a wide range of factors, including market conditions, redemption terms and restrictions and risks inherent to the inputs of the external investment managers' valuation. In situations where the information provided by the external manager is deemed to not be representative of the fair value as of the measurement date, management evaluates specific features of the investment and utilizes supplemental fair value information provided by the external manager along with any relevant market data to measure the investment's fair value.

Investments in registered investment companies are valued based upon the reported NAV of those companies. Mortgage loans, held as investments, are valued on the basis of their future principal and interest payments, and are discounted at prevailing interest rates for similar instruments. Insurance contracts are valued at contract value, plus reinvested interest, which approximates fair value.

Investments denominated in foreign currencies are translated into U.S. dollar equivalents using year-end spot foreign currency exchange rates. Purchases and sales of investments and their related income are translated at the rate of exchange on the respective transaction dates. Realized and unrealized gains and losses resulting from foreign currency changes are included in the University's statement of revenues, expenses and changes in net position.

Investment transactions are recorded on the date the securities are purchased or sold (trade date). Realized gains or losses are recorded as the difference between the proceeds from the sale and the average cost of the investment sold. Dividend income is recorded on the ex-dividend date and interest income is accrued as earned. Gifts of securities are recorded based on fair value at the date of donation.

Campus foundations may invest all or a portion of their investments in University-managed investment pools. Certain securities in these investment pools are included in the University's security lending program. Accordingly, the campus foundations' investments

in University-managed investment pools and their allocated share of the securities lending activities have been excluded from the University's financial statements and included in the Campus Foundations' column.

Derivative financial instruments. Derivative instruments are recorded at fair value. Futures contracts, foreign currency exchange contracts, stock rights and warrants, options and swaptions are valued at the settlement price on the last day of the fiscal year, as quoted on a recognized exchange or by utilizing an industry standard pricing service, when available. Financial institutions or independent advisors have estimated the fair value of the interest rate swaps and total return swaps using quoted market prices when available or discounted expected future net cash flows.

The University has entered into interest rate swap agreements to limit the exposure of its variable-rate debt to changes in market interest rates. Interest rate swap agreements involve the exchange with a counterparty of fixed- and variable-rate interest payments periodically over the life of the agreement without exchange of the underlying notional principal amounts. The net differential to be paid or received is recognized over the life of the agreements as an adjustment to interest expense. The University's counterparties are major financial institutions.

Derivatives are recorded at estimated fair value as either assets or liabilities in the statement of net position. Certain derivatives are determined to be hedging derivatives and designated as either a fair value or cash flow hedge. Under hedge accounting, changes in the fair value of hedging derivatives are considered to be deferred inflows (for hedging derivatives with positive fair values) or deferred outflows (for hedging derivatives with negative fair values).

Changes in the fair value of derivatives that are not hedging derivatives are recorded as net appreciation or depreciation of investments in the statement of revenues, expenses and changes in net position.

Participants' interests in mutual funds. Participants in the University's defined contribution retirement plans may invest their account balances in funds managed by the University's Chief Investment Officer or in certain mutual funds.

Accounts receivable, net. Accounts receivable, net of allowance for uncollectible amounts, include reimbursements due from state and federal sponsors of externally funded research, patient billings, accrued income on investments and other receivables. Other receivables include local government and private grants and contracts, educational activities and amounts due from students, employees and faculty.

Pledges receivable, net. Unconditional pledges of private gifts to the University or campus foundations, net of allowance for uncollectible amounts, are recorded as pledges receivable and revenue in the year promised at the net present value of expected cash flows. Conditional pledges, including all pledges of endowments and intentions to pledge, are recognized as receivables and revenues when the specified conditions are met.

Beneficial interests in irrevocable split-interest agreements. The beneficial interests in irrevocable split-interest agreements represent the University's and the campus foundations' right to the portion of the benefits from the irrevocable split-interest agreements that are administered by third parties and are recognized as assets and deferred inflows of resources. These are measured at fair value and are reported as other noncurrent assets in the statements of net position. Changes in the fair value of the beneficial interest assets are recognized as an increase or decrease in the related deferred inflows of resources. At the termination of the agreement, net assets received from the beneficial interests are recognized as revenues.

Notes and mortgages receivable, net. Loans to students, net of allowance for uncollectible amounts, are provided from federal student loan programs and from other University sources. Home mortgage loans, primarily to faculty, are provided from the University's Short Term Investment Pool and from other University sources. Mortgage loans provided by the Short Term Investment Pool are classified as investments and loans provided by other sources are classified as mortgages receivable in the statements of net position.

Inventories. Inventories for the campuses, consisting primarily of supplies and merchandise for resale, are valued at cost, typically determined under the weighted average method, which is not in excess of estimated net realizable value. Inventories for the medical centers consist primarily of pharmaceuticals and medical supplies which are stated on a first-in, first-out basis at the lower of cost or market.

DOE national laboratories. The University operates and manages LBNL under a contract directly with the DOE. Specific assets and liabilities and all revenues and expenses associated with LBNL are included in the financial statements. Other assets, such as cash, property and equipment and other liabilities of LBNL are owned by the United States government rather than the University and, therefore, are not included in the statement of net position. The statement of cash flows excludes the cash flows associated with LBNL other than reimbursements, primarily related to pension and health benefits, since all other cash transactions are recorded in bank accounts owned by the DOE.

The University is a member in three separate joint ventures that operate and manage two other DOE laboratories under contracts directly with the DOE. Lawrence Livermore National Security, LLC (LLNS) operates and manages Lawrence Livermore National Laboratory (LLNL). Triad National Security, LLC (Triad) commenced operating and managing Los Alamos National Laboratory (LANL) effective November 1, 2018. Prior to November 1, 2018, LANL was managed by Los Alamos National Security, LLC (LANS). The University's investments in Triad, LLNS and LANS are accounted for using the equity method. Accordingly, the University's statement of net position includes its equity interest in Triad, LANS and LLNS, adjusted for the equity in undistributed earnings or losses and the statement of revenues, expenses and changes in net position includes its equity in the current earnings or losses of LANS and LLNS.

The DOE is financially responsible for substantially all of the current and future costs incurred at any of the national laboratories, including pension and retiree health benefit costs. Accordingly, to the extent there is a liability on the University's statement of net position for pension or retiree health obligations related to these laboratories, the University records a receivable from the DOE.

Capital assets, net. Land, infrastructure, buildings and improvements, intangible assets, equipment, libraries, collections and special collections are recorded at cost at the date of acquisition, or estimated acquisition value at the date of donation in the case of gifts. Estimates of acquisition value involve assumptions and estimation methods that are uncertain and, therefore, the estimates could differ from actual value. Intangible assets include easements, land rights, trademarks, patents and other similar arrangements. Capital leases are recorded at the estimated present value of future minimum lease payments. Significant additions, replacements, major repairs and renovations to infrastructure and buildings are generally capitalized if the cost exceeds \$35,000 and if they have a useful life of more than one year. Minor renovations are charged to operations. Equipment with a cost in excess of \$5,000 and a useful life of more than one year is capitalized. Incremental costs, including salaries and employee benefits, directly related to the acquisition, development and installation of major software projects are included in the cost of the capital assets. All costs of land, library collections and special collections are capitalized.

Depreciation is calculated using the straight-line method over the estimated economic life of the asset. Equipment under capital leases is amortized over the estimated useful life of the equipment. Leasehold improvements are amortized using the straight-line method over the shorter of the life of the applicable lease or the economic life of the asset.

Estimated economic lives are generally as follows:

| | YEARS |
|-------------------------------|--------------|
| Infrastructure | 25 |
| Buildings and improvements | 15-33 |
| Equipment | 2-20 |
| Computer software | 3-7 |
| Intangible assets | 2-indefinite |
| Library books and collections | 15 |

Capital assets acquired through federal grants and contracts where the federal government retains a reversionary interest are also capitalized and depreciated.

Inexhaustible capital assets, such as land or special collections that are protected, preserved and held for public exhibition, education or research, including art, museum, scientific and rare book collections are not depreciated.

Interest on borrowings to finance facilities is capitalized during construction, net of any investment income earned on tax-exempt borrowings during the temporary investment of project-related borrowings.

Service concession arrangements. The University has entered into service concession arrangements with third parties for parking, student housing and certain other faculty and student services. Under these arrangements, the University enters into ground leases with third parties at minimal or no cost, and gives the third party the right to construct, operate and maintain a facility, primarily for the benefit of students and faculty at competitive rates. Rate increases for use of the facilities are subject to certain constraints and ownership of the facilities reverts to the University upon expiration of the ground lease. The facilities are reported as capital assets by the University when placed in service, and a corresponding deferred inflow of resources is reported. The University has not provided guarantees on financing obtained by the third parties under these arrangements.

Unearned revenue. Unearned revenue primarily includes amounts received from grant and contract sponsors that have not been earned under the terms of the agreement and other revenue billed in advance of the event, such as student tuition and fees for housing and dining services.

Funds held for others. Funds held for others result from the University or the campus foundations acting as an agent, or fiduciary, on behalf of organizations that are not significant or financially accountable to the University or campus foundations.

Federal refundable loans. Certain loans to students are administered by the University with funding primarily supported by the federal government. The University's statement of net position includes both the notes receivable and the related federal refundable loan liability representing federal capital contributions owed upon termination of the program.

Bond premium. The bond premium received in the issuance of long-term debt is amortized as a reduction to interest expense over the term of the related long-term debt.

Self-insurance programs. The University is self-insured or insured through a wholly owned captive insurance company for medical malpractice, workers' compensation, employee health care and general liability claims. These risks are subject to various claim and aggregate limits, with excess liability coverage provided by an independent insurer. Liabilities are recorded when it is probable a loss has occurred and the amount of the loss can be reasonably estimated. These losses include an estimate for claims that have been incurred, but not reported. The estimated liabilities are based upon an independent actuarial determination of the present value of the anticipated future payments. Settlements did not exceed self-insured or supplementally insured coverage for any program in the past three fiscal years.

Obligations under life income agreements. Obligations under life income agreements represent trusts with living income beneficiaries where the University has a residual interest. The investments associated with these agreements are recorded at fair value. The discounted present value of the income beneficiary interest is reported as a liability in the statement of net position. Gifts subject to such agreements administered by the University are recorded as deferred inflows of resources, net of the income beneficiary share, at the date of the gift. Actuarial gains and losses are included in deferred inflows of resources in the statement of net position. At the termination of the agreement, the University's residual interest is recorded as gift revenue in the statement of revenues, expenses and changes in net position.

Pollution remediation obligations. Upon an obligating event, the University estimates the components of any expected pollution remediation costs and recoveries from third parties. The costs, estimated using the expected cash flow technique, are accrued as a liability. Pollution remediation liabilities generally involve groundwater, soil and sediment contamination at certain sites where state and other regulatory agencies have indicated that the University is among the responsible parties. The liabilities are reviewed annually and may increase or decrease the cost of recovery from third parties, if any, as a result of additional information that refines the estimates, or from payments made from revenue sources that support the activity. There were no expected recoveries at June 30, 2019 and 2018 reducing the pollution remediation liability.

Asset retirement obligations. Upon an obligating event, the University records the costs of any expected tangible capital asset retirement obligations using the best estimate of the current value of outlays expected to be incurred. The liabilities are reviewed annually and may change as a result of additional information that refines the estimates. Actual asset retirement obligation costs may vary from these estimates as a result of changes in assumptions such as asset retirement dates, regulatory requirements, technology and costs of labor, materials and equipment. The estimated remaining useful lives of these assets range from 2 to 28 years.

Deferred outflows of resources and deferred inflows of resources. Deferred outflows of resources and deferred inflows of resources represent a consumption and acquisition of net position that apply to a future period, respectively. The University classifies gains on refunding of debt, increases in the fair value of the hedging derivatives, payments received or to be received from service concession arrangements and changes in irrevocable split-interest agreements as deferred inflows of resources. The University classifies losses on refunding of debt, decreases in the fair value of hedging derivatives and certain asset retirement obligations as deferred outflows of resources. Gains or losses on refunding of debt are amortized as a component of interest expense over the remaining life of the old debt, or the new debt, whichever is shorter. Asset retirement obligations are recognized over the remaining useful life of the related asset. Revenues from split interest agreements are recognized when the resources become available to spend.

Changes in the net pension and net retiree health liabilities not included in expense are reported as deferred outflows of resources or deferred inflows of resources. Employer contributions subsequent to the measurement date of the net pension and retiree health liabilities are reported as deferred outflows of resources.

Net position. Net position is required to be classified for accounting and reporting purposes into the following categories:

Net investment in capital assets. This category includes all of the University's capital assets, net of accumulated depreciation, reduced by outstanding debt attributable to the acquisition, construction or improvement of those assets.

Restricted. The University and campus foundations classify the net position resulting from transactions with purpose or time restrictions as restricted net position until the specific resources are used for the required purpose or for as long as the provider requires the resources to remain intact.

Nonexpendable. The net position subject to externally imposed restrictions, which must be retained in perpetuity by the University or campus foundations, is classified as nonexpendable net position. This includes the University and campus foundation permanent endowment funds.

Also included in nonexpendable net position are minority interests, which include the net position of legally separate organizations attributable to other participants.

Expendable. The net position whose use by the University or campus foundations is subject to externally imposed restrictions that can be fulfilled by actions of the University or campus foundations pursuant to those restrictions or that expire by the passage of time is classified as expendable net position.

Unrestricted. The net position that is not subject to externally imposed restrictions governing its use is classified as unrestricted net position. The University's unrestricted net position may be designated for specific purposes by management or The Regents. The campus foundations' unrestricted net position may be designated for specific purposes by their Boards of Trustees. Substantially all of the University's unrestricted net position is allocated for academic and research initiatives or programs, for capital programs or for other purposes.

Restricted or unrestricted resources are spent based upon a variety of factors, including funding restrictions, consideration of prior and future revenue sources, the type of expense incurred, the University's budgetary policies surrounding the various revenue sources or whether the expense is a recurring cost. Unrestricted net position is negative due primarily to liabilities for pension and retiree health benefits exceeding University assets available to pay such obligations.

Revenues and expenses. Operating revenues of the University include receipts from student tuition and fees, grants and contracts for specific operating activities and sales and services from medical centers, educational activities and auxiliary enterprises. Operating expenses incurred in conducting the programs and services of the University are presented in the statement of revenues, expenses and changes in net position as operating activities. The University's equity in current earnings or losses of LANS and LLNS is also an operating transaction.

Certain significant revenues relied upon and budgeted for fundamental operational support of the core instructional mission of the University are mandated by the GASB to be recorded as nonoperating revenues, including state educational appropriations, certain federal grants for student financial aid, private gifts and investment income, since the GASB does not consider them to be related to the principal operating activities of the University.

Campus foundations are established to financially support the University. Private gifts to campus foundations are recognized as operating revenues since, in contrast to the University, such contributions are fundamental to the core mission of the campus foundations. Foundation grants to the University are recognized as operating expenses by the foundations. Private gift or capital gift revenues associated with campus foundation grants to the University are recorded by the University as gifts when the foundations transfer the gifts to the University.

Nonoperating revenues and expenses include state educational appropriations, state financing appropriations, state hospital fee grants, Build America Bond federal interest subsidies, Federal Pell Grants, private gifts for other than capital purposes, investment income, net appreciation (or depreciation) in the fair value of investments, interest expense and the gain (loss) on the disposal of capital assets.

State capital appropriations, capital gifts and grants and gifts for permanent endowment purposes are classified as other changes in net position.

Student tuition and fees. Substantially all student tuition and fees provide for the current operations of the University. A small portion of the student fees, reported as capital gifts and grants, is required for debt service associated with student union and recreational centers.

The University recognizes scholarship allowances as the difference between the stated charge for tuition and fees, housing and dining charges, recreational center and other fees, and the amount that is paid by the student and third parties on behalf of the student. Payments of financial aid made directly to students are classified as scholarship and fellowship expenses.

Scholarship allowances are netted against student tuition and fees in the statement of revenues, expenses and changes in net position for the years ended June 30 as follows:

| <i>(in thousands of dollars)</i> | 2019 | 2018 |
|----------------------------------|--------------------|--------------------|
| Student tuition and fees | \$1,231,856 | \$1,250,300 |
| Auxiliary enterprises | 232,157 | 206,012 |
| Other operating revenues | 17,225 | 30,602 |
| Scholarship allowances | \$1,481,238 | \$1,486,914 |

State appropriations. The state of California provides appropriations to the University on an annual basis. State educational appropriations are recognized as nonoperating revenue; however, the related expenses for educational, retirement or other specific operating purposes are reported as operating expenses. State appropriations for capital projects are recorded as revenue under other changes in net position when the related expenditures are incurred. Special state appropriations for AIDS, tobacco and breast cancer research are reported as grant operating revenue.

Grant and contract revenue. The University receives grant and contract revenue from governmental and private sources. The University recognizes revenue associated with the direct costs of sponsored programs as the related expenditures are incurred. Recovery of facilities and administrative costs of federally sponsored programs is at cost reimbursement rates negotiated with the University's federal cognizant agency, the U.S. Department of Health and Human Services. For the year ended June 30, 2019, the facilities and administrative cost recovery totaled \$1.2 billion, which consisted of \$829.0 million from federally sponsored programs and \$348.0 million from other sponsors. For the year ended June 30, 2018, the facilities and administrative cost recovery totaled \$1.1 billion, which consisted of \$782.0 million from federally sponsored programs and \$333.8 million from other sponsors.

Medical center revenue. Medical center revenue is reported at the estimated net realizable amounts from patients and third-party payors, including Medicare, Medi-Cal and others, for services rendered, as well as estimated retroactive adjustments under reimbursement agreements with third-party payors. Laws and regulations governing Medicare and Medi-Cal are complex and subject to interpretation. Retroactive adjustments are accrued on an estimated basis in the period the related services are rendered and adjusted in future periods as final settlements are determined. It is reasonably possible that estimated amounts accrued could change significantly based upon settlement, or as additional information becomes available.

Net pension liability. The University records net pension liability equal to the net pension liability for its defined benefit plans. The net pension liability is measured as the total pension liability, less the amount of the pension plans' fiduciary net positions. The fiduciary net position and changes in net position of the defined benefit plans have been measured consistent with the accounting policies used by the plans. The total pension liability is determined based upon discounting projected benefit payments based on the benefit terms and legal agreements existing at the pension plan's fiscal year end. Projected benefit payments are discounted using a single rate that reflects the expected rate of return on investments, to the extent that plan assets are available to pay benefits, and a tax-exempt, high-quality municipal bond rate when plan assets are not available.

Pension expense is recognized for benefits earned during the period, interest on the unfunded liability and changes in benefit terms. The differences between expected and actual experience and changes in assumptions about future economic or demographic factors are reported as deferred inflows or outflows and are recognized over the average expected remaining service period for employees eligible for pension benefits. The differences between expected and actual returns are reported as deferred inflows or outflows and are recognized over five years.

Both current employees and retirees at LBNL participate in UCRP. The University makes contributions to UCRP for LBNL employees based upon rates authorized by The Regents and is reimbursed by the DOE. The University also makes contributions to UCRP for LANL and LLNL retirees and terminated vested members, whose benefits were retained in UCRP at the time the joint ventures were formed. The University records a receivable for the net pension liability that is expected to be collected from the DOE. The University deposits funds in UCRP when the DOE makes payments for these contributions. The contributions from the DOE and deposits into UCRP on behalf of DOE are included as DOE laboratory revenue in the statement of revenues, expenses and changes in net position.

Retiree health benefits and liability. The University's net retiree health benefits liability is measured as the total retiree health benefits liability, less the amount of the University of California Retiree Health Benefit Trust's (UCRHBT) fiduciary net position. The fiduciary net position and changes in net position of UCRHBT have been measured consistent with the accounting policies used by the trust. The total retiree health benefits liability is determined based upon discounting projected benefit payments based on the benefit terms and legal agreements existing at the health benefit trust's fiscal year end. Projected benefit payments are discounted using a single rate that reflects the expected rate of return on investments, to the extent that plan assets are available to pay benefits, and a tax-exempt, high-quality municipal bond rate when plan assets are not available.

Expense for retiree health benefits is recognized for benefits earned during the period, interest on the unfunded liability and changes in benefit terms. The differences between expected and actual experience and changes in assumptions about future economic or demographic factors are reported as deferred inflows or outflows and are recognized over the average expected remaining service period for employees eligible for retiree health benefits. The differences between expected and actual returns are reported as deferred inflows or outflows and are recognized over five years.

LBNL participates in the University's retiree health plans. The net retiree health benefits liability for LBNL is determined independently from the University's campuses and medical centers. Retiree health benefits expense for LBNL is included with the DOE laboratory expense in the statement of revenues, expenses and changes in net position. The contributions from the DOE are included as DOE laboratory revenue in the statement of revenues, expenses and changes in net position.

The University records a receivable from the DOE for the DOE's portion of the University's net retiree health benefits liability attributable to LBNL. The University does not have any retiree health benefits liability for LANL or LLNL retiree health benefit costs since they do not participate in the University's retiree health plans.

Campus and medical center contributions toward retiree health costs made to UCRHBT, the University's LBNL-related payments made directly to health care insurers and administrators and the corresponding reimbursements from the DOE, are shown as operating activities in the statement of cash flows. Cash flows resulting from retiree health contributions from retirees are shown as noncapital financing activities in the statement of cash flows.

University of California Retiree Health Benefit Trust. UCRHBT receives the University's contributions toward retiree health benefits from campuses, medical centers and University affiliates. The University receives retiree health contributions from University affiliates and campus and medical center retirees that are deducted from their UCRP benefit payments and then remitted to UCRHBT.

The University acts as a third-party administrator on behalf of UCRHBT and pays health care insurers and administrators amounts currently due under the University's retiree health benefit plans for retirees. UCRHBT reimburses the University for these amounts.

LBNL does not participate in UCRHBT; therefore, the DOE has no interest in its assets.

Compensated absences. The University accrues annual leave, including employer-related costs, for employees at rates based upon length of service and job classification and compensatory time based upon job classification and hours worked.

Endowment spending. Under provisions of California law, the Uniform Prudent Management of Institutional Funds Act allows for investment income, as well as a portion of realized and unrealized gains, to be expended for the operational requirements of University programs.

Tax exemption. The University is recognized as a tax-exempt organization under Section 501(c)(3) of the Internal Revenue Code (IRC), except for tax on unrelated business income under IRC Section 511. The University is also exempt from federal income tax under IRC Section 115(a) as a state institution. In addition, the University is exempt from state income taxes imposed under the California Revenue and Taxation Code. UCRS plans are qualified under IRC Section 401(a) and the related trusts are tax-exempt under Section 501(c)(3). The campus foundations are also qualified for tax exemption under IRC Section 501(c)(3). CHRCO and its component unit, the Children's Hospital and Research Center Foundation, are qualified for exemption under IRC Section 501(c)(3). Income received by UCRHBT is tax-exempt under IRC Section 115(a).

Use of estimates. The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenditures during the reporting period. Although management believes the estimates and assumptions are reasonable, they are based upon information available at the time the estimate or judgment is made and actual amounts could differ from those estimates.

New accounting pronouncements. In January 2017, the GASB issued Statement No. 84, *Fiduciary Activities*, effective for the University's fiscal year beginning July 1, 2019. This Statement establishes criteria for identifying fiduciary activities of all state and local governments. Governments with activities meeting the criteria should present a statement of fiduciary net position and a statement of changes in fiduciary net position. This Statement describes four fiduciary funds that should be reported, if applicable: (1) pension (and other employee benefit) trust funds, (2) investment trust funds, (3) private-purpose trust funds and (4) custodial funds. Custodial funds generally should report fiduciary activities that are not held in a trust or an equivalent arrangement that meets specific criteria. The University is evaluating the effect Statement No. 84 will have on its financial statements.

In June 2017, the GASB issued Statement No. 87, *Leases*, effective for the University's fiscal year beginning July 1, 2020. This Statement establishes a single approach to accounting for and reporting leases based on the principle that leases are financings of the right to use an underlying asset. Under this Statement, a lessee is required to recognize a lease liability and an intangible right-to-use lease asset, and a lessor is required to recognize a lease receivable and a deferred inflow of resources. Limited exceptions to the single-approach guidance are provided for short-term leases, defined as lasting a maximum of twelve months at inception, including any options to extend, financed purchases, leases of assets that are investments and certain regulated leases. The University is evaluating the effect Statement No. 87 will have on its financial statements.

In June 2018, the GASB issued Statement No. 89, *Accounting for Interest Cost Incurred before the End of a Construction Period*, effective prospectively for the University's fiscal year beginning July 1, 2020. The Statement requires that interest cost incurred before the end of a construction period be recognized as an expense in the period in which the cost is incurred. As a result, interest costs would not be capitalized as part of the asset's historical cost. For construction in progress, interest cost incurred after applying this Statement will not be capitalized. The University expects interest expense to increase upon implementation of Statement No. 89.

In August 2018, the GASB issued Statement No. 90, *Majority Equity Interests — An Amendment of GASB Statements No. 14 and No. 61*, effective for the University's fiscal year beginning July 1, 2019. The Statement defines a majority equity interest in a legally separate organization and clarifies the accounting and financial reporting for majority equity interests, classified as either investments or component units, in the financial statements. The University is evaluating the effect that Statement No. 90 will have on its financial statements.

In May 2019, the GASB issued Statement No. 91, *Conduit Debt Obligations*, effective for the University's fiscal year beginning July 1, 2021. The Statement defines a conduit debt obligation and clarifies the accounting and financial reporting for conduit debt obligations with additional or voluntary commitments by issuers. The University is evaluating the effect that Statement No. 91 will have on its financial statements.

1. CASH AND CASH EQUIVALENTS

The University maintains centralized management for substantially all of its cash and cash equivalents. Cash in demand deposit accounts is minimized by sweeping available cash balances into investment accounts on a daily basis.

Under University policy, deposits are only held at financial institutions that maintain an issuer rating on long-term debt of A3 or higher by Moody's, A- or higher by Standard & Poor's or an Asset Peer Group rating of 65 or higher as defined by Sheshunoff Bank Rating Reports. At June 30, 2019 and 2018, the carrying amount of the University's demand deposits, generally held in five nationally recognized banking institutions, was \$143.1 million and \$249.5 million, respectively, compared to bank balances of \$93.6 million and \$169.7 million, respectively. Deposits in transit and cash awaiting investment are the primary differences. The University's deposits are uninsured and uncollateralized except for bank balances insured by the Federal Deposit Insurance Corporation (FDIC) up to applicable statutory limits.

The University does not have significant exposure to foreign currency risk in demand deposit accounts. Accounts held in foreign countries maintain minimum operating balances with the intent to reduce potential foreign exchange risk while providing an adequate level of liquidity to meet the obligations of the academic programs established abroad. The equivalent U.S. dollar balances required to support research groups and education abroad programs in foreign countries was \$0.2 million at June 30, 2019 and \$4.4 million at June 30, 2018.

The carrying amount of the campus foundations' cash and cash equivalents at June 30, 2019 and 2018 was \$458.6 million and \$447.4 million, respectively, compared to bank balances of \$88.0 million and \$58.0 million, respectively. Deposits in transit and cash awaiting investment are the primary differences. Included in bank balances are deposits in the University's Short Term Investment Pool of \$366.9 million at June 30, 2019 and \$387.6 million at June 30, 2018, with the remaining uncollateralized bank balances insured by the Federal Deposit Insurance Corporation (FDIC) up to applicable statutory limits. Uncollateralized bank balances include \$20.8 million and \$8.7 million in excess of the FDIC limits at June 30, 2019 and 2018, respectively. The campus foundations do not have exposure to foreign currency risk in their cash and cash equivalents.

2. INVESTMENTS

The Regents, as the governing Board, is responsible for the oversight of the University's, UCRS' and UCRHBT's investments and establishes an investment policy, which is carried out by the Chief Investment Officer. These investments are associated with the Short Term Investment Pool (STIP), Total Return Investment Pool (TRIP), Blue and Gold Pool (BGP), General Endowment Pool (GEP), UCRS, UCRHBT and other investment pools managed by the Chief Investment Officer, or are separately invested. Pursuant to The Regents' policies on campus foundations, the Board of Trustees for each campus foundation may determine that all or a portion of their investments will be managed by the Chief Investment Officer. Asset and Risk Allocation Policy guidelines are provided to the campus foundations by the Investments Committee of The Regents.

STIP allows participants to maximize the returns on their short-term cash balances by taking advantage of the economies of scale of investing in a large pool with a broad range of maturities and is managed to maximize current earned income. Cash to provide for payroll, construction expenditures and other operating expenses for campuses and medical centers is invested in STIP. The available cash in UCRS or endowment investment pools awaiting investment, or cash for administrative expenses, is also invested in STIP.

Investments authorized by The Regents for STIP include fixed-income securities with a maximum maturity of five and one-half years. In addition, for STIP, The Regents has also authorized loans, primarily to faculty members residing in California, under the University's Mortgage Origination Program with terms of up to 40 years.

TRIP allows participants the opportunity to maximize the return on their intermediate-term working capital by taking advantage of the economies of scale of investing in a large pool across a broad range of asset classes. TRIP is managed to a total return objective and is intended to supplement STIP. Investments authorized by The Regents for TRIP include a diversified portfolio of equity, fixed income and alternative investments.

BGP is an investment pool established by The Regents and is available to the University and its related entities. The objective of BGP is to provide a low cost, liquid, diversified investment vehicle to invest long-term excess reserves to earn a higher return than would otherwise be expected from STIP and TRIP. To achieve liquidity, transparency and minimal expense, a passive investment strategy in equities and bonds is used.

GEP is an investment pool in which a large number of individual endowments participate in order to benefit from diversification and economies of scale. GEP is a balanced portfolio and the primary investment vehicle for endowed gift funds. Where donor agreements place constraints on allowable investments, assets associated with endowments are invested in accordance with the terms of the agreements.

Other investment pools primarily facilitate annuity and life income arrangements. Separate investments are those that cannot be pooled due to investment restrictions or income requirements.

Investments authorized by The Regents for GEP, UCRS, other investment pools and separate investments include equity securities, fixed-income securities and certain other asset classes. The equity portion of the investment portfolios include both domestic and foreign common and preferred stocks which may be included in actively or passively managed strategies, along with exposure to private equities. The University's investment portfolios may include foreign currency-denominated equity securities. The fixed-income portion of the investment portfolios may include both domestic and foreign securities, along with certain securitized investments, including mortgage-backed and asset-backed securities. Fixed-income investment guidelines permit the use of futures and options on fixed-income instruments in the ongoing management of the portfolios. Real estate investments are authorized for all pools except for STIP. Absolute return strategies, which may incorporate short sales, plus derivative positions to implement or hedge an investment position, are also authorized for all pools except for STIP.

Derivative instruments, including futures, forward contracts, options and swap contracts are authorized for portfolio rebalancing in accordance with The Regents' asset allocation policy and as substitutes for physical securities. Derivatives are not used for speculative purposes.

The Regents has also authorized certain employee account balances in defined contribution plans included as part of UCRS' investments to be invested in mutual funds. The participants' interests in mutual funds are not managed by the Chief Investment Officer and totaled \$1.7 billion and \$1.6 billion at June 30, 2019 and 2018, respectively.

Investments authorized by The Regents for the UCRHBT are restricted to a portfolio of high-quality money market instruments in a commingled fund that is managed externally. The average credit quality of the portfolio is A-1/P-1 with an average maturity of 33 days and 17 days at June 30, 2019 and 2018, respectively. The fair values of UCRHBT's investment in this portfolio were \$136.2 million and \$128.1 million at June 30, 2019 and 2018, respectively. These are measured at net asset value as of June 30, 2019 and 2018, respectively.

The composition of investments, by investment type at June 30 is as follows:

(in thousands of dollars)

| | UNIVERSITY OF CALIFORNIA | | UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS | | UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM | |
|---|--------------------------|---------------------|--|--------------------|---|---------------------|
| | 2019 | 2018 | 2019 | 2018 | 2019 | 2018 |
| <i>Equity securities:</i> | | | | | | |
| Domestic | \$3,958,908 | \$2,981,893 | \$272,859 | \$258,339 | \$24,837,610 | \$19,851,801 |
| Foreign | 2,338,504 | 2,575,283 | 28,130 | 23,255 | 14,770,785 | 13,473,111 |
| Equity securities | 6,297,412 | 5,557,176 | 300,989 | 281,594 | 39,608,395 | 33,324,912 |
| <i>Fixed- or variable-income securities:</i> | | | | | | |
| U.S. government-guaranteed: | | | | | | |
| U.S. Treasury bills, notes and bonds | 2,554,434 | 2,726,553 | 347,724 | 375,054 | 1,531,732 | 1,896,840 |
| U.S. Treasury strips | 781,608 | 538,903 | 241 | 212 | 1,973,596 | 1,464,655 |
| U.S. TIPS | 30,912 | 124,756 | | | 3,142,771 | 2,512,561 |
| U.S. government-backed securities | | | | 15 | | |
| U.S. government-backed mortgage-backed securities | 6,881 | 9,358 | 9,557 | 11,386 | 5,927 | 7,214 |
| U.S. government-guaranteed | 3,373,835 | 3,399,570 | 357,522 | 386,667 | 6,654,026 | 5,881,270 |
| <i>Other U.S. dollar-denominated:</i> | | | | | | |
| Corporate bonds | 3,521,045 | 3,776,818 | 25,838 | 28,768 | 4,316,281 | 4,490,273 |
| Commercial paper | 1,962,132 | 4,248,162 | | | 421,635 | 2,012,845 |
| U.S. agencies | 1,856,385 | 1,917,652 | 3,762 | | 4,006,178 | 4,035,120 |
| U.S. agencies - asset-backed securities | 680,334 | 687,546 | 15,711 | 36,588 | 2,796,820 | 2,953,252 |
| Corporate - asset-backed securities | 802,323 | 621,817 | 22,093 | 59,824 | 1,583,412 | 1,639,967 |
| Supranational/foreign | 1,381,686 | 1,422,310 | 369 | 4,207 | 2,824,693 | 2,804,258 |
| Other | 26,491 | 116,497 | 181 | 805 | 28,753 | 175,279 |
| Other U.S. dollar-denominated | 10,230,396 | 12,790,802 | 67,954 | 130,192 | 15,977,772 | 18,110,994 |
| <i>Foreign currency-denominated:</i> | | | | | | |
| Corporate | 98 | 113 | | | 536 | 576 |
| Government/sovereign | | | 1,430 | | | |
| Foreign currency-denominated | 98 | 113 | 1,430 | | 536 | 576 |
| <i>Commingled funds:</i> | | | | | | |
| Absolute return funds | 4,313,573 | 3,957,859 | 2,531,318 | 2,589,828 | 4,716,290 | 4,475,682 |
| Non-U.S. equity funds | 2,385,721 | 2,172,821 | 1,133,275 | 1,031,849 | 8,198,932 | 8,958,098 |
| Private equity | 2,554,119 | 1,701,059 | 1,132,506 | 954,534 | 4,458,873 | 3,178,252 |
| Money market funds | 845,562 | 681,658 | 1,285,848 | 1,060,958 | 5,664,235 | 5,817,621 |
| U.S. equity funds | 74,076 | 193,547 | 914,398 | 771,075 | 1,137,570 | 4,069,653 |
| Real estate investment trusts | 204,527 | 310,119 | 174,974 | 162,111 | 2,454,783 | 1,475,420 |
| Real assets | 627,023 | 381,533 | | | 1,530,725 | 1,146,296 |
| U.S. bond funds | 804,055 | 402,336 | 136,634 | 146,316 | 1,131,443 | 1,076,196 |
| Non-U.S. bond funds | 144,613 | 135,862 | 20,727 | 21,697 | 14 | 14 |
| Balanced funds | 243,152 | 234,375 | 1,519,333 | 1,330,673 | | |
| Commingled funds | 12,196,421 | 10,171,169 | 8,849,013 | 8,069,041 | 29,292,865 | 30,197,232 |
| Investment derivatives | 545 | (5,520) | (388) | (355) | 6,485 | (19,142) |
| Publicly traded real estate investment trusts | 265,160 | 224,036 | | | 2,092,822 | 1,711,685 |
| Mortgage loans | 766,748 | 510,765 | | | | |
| Real estate | 1,035,477 | 428,590 | 143,713 | 135,731 | 1,823,802 | 1,665,191 |
| Other investments | 121,256 | 27,701 | 258,156 | 236,710 | | |
| Campus foundations' investments with the University | (2,892,444) | (2,611,651) | | | | |
| UCRS investment in the STIP | (2,687,523) | (3,123,754) | | | | |
| Total investments | 28,707,381 | 27,368,997 | 9,978,389 | 9,239,580 | \$95,456,703 | \$90,872,718 |
| Less: Current portion | (4,923,749) | (4,890,075) | (875,652) | (857,844) | | |
| Noncurrent portion | \$23,783,632 | \$22,478,922 | \$9,102,737 | \$8,381,736 | | |

Investment Risk Factors

There are many factors that can affect the value of investments. Some, such as custodial credit risk, concentration of credit risk and foreign currency risk, may affect both equity and fixed-income securities. Equity securities respond to such factors as economic conditions, individual company earnings performance and market liquidity, while fixed-income securities are particularly sensitive to credit risks and changes in interest rates. Alternative investment strategies and their underlying assets and rights are subject to an array of economic and market vagaries that can limit or erode value.

Credit Risk

Fixed-income securities are subject to credit risk, which is the chance that a bond issuer will fail to pay interest or principal in a timely manner, or the possibility that negative perceptions of the issuer's ability to make these payments will cause security prices to decline. These circumstances may arise due to a variety of factors such as financial weakness, bankruptcy, litigation and/or adverse political developments.

A bond's credit quality is an assessment of the issuer's ability to pay interest on the bond and, ultimately, to pay the principal. Credit quality is evaluated by one of the independent bond rating agencies, for example Moody's Investors Service (Moody's) or Standard and Poor's (S&P). The lower the rating, the greater the chance, in the rating agency's opinion, that the bond issuer will default, or fail to meet its payment obligations. Generally, the lower a bond's credit rating, the higher its yield should be to compensate for the additional risk.

Certain fixed-income securities, primarily obligations of the U.S. government or those explicitly guaranteed by the U.S. government, are considered to have minimal credit risk. Asset-backed securities are debt obligations that represent claims to the cash flows from pools of commercial, mortgage, credit card or student loans. Mortgage-backed securities issued by Ginnie Mae are backed by the full faith and credit of the U.S. government.

The investment guidelines for STIP recognize that a limited amount of credit risk, properly managed and monitored, is prudent and provides incremental risk-adjusted return over its benchmark (the benchmark for STIP is a weighted average of the two-year Treasury income note and Citigroup 3-month Treasury bill).

The University recognizes that credit risk is appropriate in balanced investment pools such as TRIP, BGP, UCRS and GEP by virtue of the benchmarks chosen for the fixed-income portion of those pools.

The core fixed-income benchmark for UCRS, BGP, GEP and TRIP is the Barclays Capital U.S. Aggregate Bond Index, comprised of 25.1 percent corporate bonds and 29.7 percent mortgage/asset-backed bonds, all of which carry some degree of credit risk. The remaining 45.1 percent is government issued bonds.

Credit risk is managed primarily by diversifying across issuers. The University monitors and reviews their exposures on an ongoing basis and will maintain a high quality portfolio within the investment guidelines set forth by the Office of the Chief Investment Officer.

The credit risk profile for fixed- or variable-income securities at June 30 is as follows:

(in thousands of dollars)

| | UNIVERSITY OF CALIFORNIA | | UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS | | UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM | |
|--|--------------------------|-------------|--|-----------|---|-------------|
| | 2019 | 2018 | 2019 | 2018 | 2019 | 2018 |
| <i>Fixed- or variable-income securities:</i> | | | | | | |
| U.S. government-guaranteed | \$3,373,835 | \$3,399,570 | \$357,522 | \$386,667 | \$6,654,026 | \$5,881,270 |
| <i>Other U.S. dollar-denominated:</i> | | | | | | |
| AAA | 772,543 | 686,606 | 14,996 | 20,817 | 1,682,354 | 1,798,100 |
| AA | 1,812,421 | 1,866,014 | 16,926 | 24,932 | 2,980,968 | 3,115,678 |
| A | 1,740,713 | 1,712,026 | 6,244 | 7,045 | 1,265,126 | 1,472,752 |
| BBB | 1,889,585 | 2,067,115 | 18,883 | 23,815 | 2,270,637 | 2,587,735 |
| BB | 387,960 | 461,019 | | 592 | 1,356,147 | 1,176,085 |
| B | 244,231 | 302,023 | | 1,242 | 1,282,856 | 1,069,331 |
| CCC or below | 28,966 | 42,513 | | 19,629 | 196,655 | 200,111 |
| Not rated | 3,353,977 | 5,653,486 | 10,905 | 32,120 | 4,943,029 | 6,691,202 |
| <i>Foreign currency-denominated:</i> | | | | | | |
| BBB | | | 1,430 | | | |
| B | | 113 | | | 536 | 576 |
| CCC or below | 98 | | | | | |
| <i>Commingled funds:</i> | | | | | | |
| U.S. bond funds: Not rated | 804,055 | 402,336 | 136,634 | 146,316 | 1,131,443 | 1,076,196 |
| Non-U.S. bond funds: Not rated | 144,613 | 135,862 | 20,727 | 21,697 | 14 | 14 |
| Money market funds: Not rated | 845,562 | 681,658 | 1,285,848 | 1,060,958 | 5,664,235 | 5,817,621 |
| Mortgage loans: Not rated | 766,748 | 510,765 | | | | |
| Investment derivatives: Not rated | | | (388) | (355) | | |

Custodial Credit Risk

Custodial credit risk is the risk that in the event of the failure of the custodian, the investments may not be returned.

Substantially all of the University's, campus foundations' and UCRS' securities are registered in the University's name by the custodial bank as an agent for the University. Other types of investments represent ownership interests that do not exist in physical or book-entry form. As a result, custodial credit risk for such investments is remote.

Concentration of Credit Risk

Concentration of credit risk is the risk associated with a lack of diversification, such as having substantial investments in a few individual issuers, thereby exposing the organization to greater risks resulting from adverse economic, political, regulatory, geographic or credit developments.

The U.S. and non-U.S. equity portions of the University and UCRS portfolios may be managed either passively or actively. For the portions managed passively, the concentration of individual securities is similar to their concentration in the benchmark. While some securities have a larger representation in the benchmark than others, the University considers passive management results in an absence of concentration of credit risk. For the portions managed actively, asset class guidelines do not specifically address concentration risk, but do state that the equity asset class, in the aggregate, will be appropriately diversified to control overall risk and will exhibit portfolio characteristics similar to the asset class benchmark (including concentration of credit risk). Concentration risk for individual portfolios is monitored relative to their individual benchmarks and agreed-upon risk parameters in their guidelines.

Each campus foundation may have its own individual investment policy designed to limit exposure to a concentration of credit risk. Securities issued or explicitly guaranteed by the U.S. government, mutual funds, external investment pools, other investment pools or investments that are invested by the University for the campus foundations are not subject to concentration of credit risk. Most of the campus foundations that hold other types of investments have policies to limit the exposure to an individual issuer.

At June 30, 2019 and 2018, no single issuer comprised more than five percent or more of investments held by the University, campus foundations and UCRS.

Interest Rate Risk

Interest rate risk is the risk that the value of fixed-income securities will decline because of changing interest rates. The prices of fixed-income securities with a longer time to maturity, measured by effective duration, tend to be more sensitive to changes in interest rates and, therefore, more volatile than those with shorter durations. Effective duration is the approximate change in price of a security resulting from a 100-basis-point (1-percentage-point) change in the level of interest rates. It is not a measure of time.

Interest rate risk for STIP is managed by constraining the maturity of all individual securities to be less than five and one-half years. There is no restriction on weighted average maturity of the portfolio as it is managed relative to the liquidity demands of the investors. The nature and maturity of individual securities in STIP allow for the use of weighted average maturity as an effective risk management tool, rather than the more complex measure, effective duration.

The portfolio guidelines constrain the potential price movement due to interest rate changes of the portfolio being similar to that of the benchmark. There are similar restrictions for the high-yield and emerging market debt portfolios relative to their benchmarks.

The effective durations for fixed- or variable-income securities at June 30 are as follows:

| | UNIVERSITY OF CALIFORNIA | | UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS | | UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM | |
|--|--------------------------|------|--|------|---|------|
| | 2019 | 2018 | 2019 | 2018 | 2019 | 2018 |
| Fixed- or variable-income securities: | | | | | | |
| U.S. government-guaranteed: | | | | | | |
| U.S. Treasury bills, notes and bonds | 1.7 | 2.4 | 2.7 | 2.9 | 2.9 | 2.7 |
| U.S. Treasury strips | 8.4 | 9.2 | 15.5 | 16.5 | 11.0 | 10.3 |
| U.S. TIPS | 3.9 | 5.9 | | | 6.1 | 6.1 |
| U.S. government-backed securities | | | | 1.4 | | |
| U.S. government-backed mortgage-backed securities | 0.7 | 1.6 | 0.7 | 2.9 | 2.2 | 2.9 |
| Other U.S. dollar-denominated: | | | | | | |
| Corporate bonds | 3.5 | 3.5 | 2.5 | 2.7 | 5.3 | 5.7 |
| U.S. agencies | 1.0 | 2.0 | | | 1.6 | 2.0 |
| U.S. agencies - asset-backed securities | 2.8 | 4.2 | 1.6 | 5.0 | 2.5 | 3.9 |
| Corporate - asset-backed securities | 3.3 | 3.9 | 0.8 | 2.2 | 2.6 | 2.6 |
| Supranational/foreign | 3.0 | 3.6 | 2.6 | 3.4 | 5.7 | 5.2 |
| Other | 9.2 | 8.5 | | 5.3 | 15.9 | 15.6 |
| Foreign currency-denominated: | | | | | | |
| Corporate | 2.6 | 0.6 | | | 2.6 | 0.6 |
| Government/sovereign | | | 3.4 | | | |
| Commingled funds: | | | | | | |
| U.S. bond funds | 4.1 | 2.4 | 4.6 | 4.6 | 2.9 | |
| Non-U.S. bond funds | 3.0 | 3.4 | 7.0 | 5.3 | 7.6 | |
| Money market funds* | | | 1.2 | 2.0 | 1.2 | 2.0 |

*Foundation and UCRS investment in STIP.

The University considers the effective durations for commercial paper, mortgage loans, insurance contracts and money market funds to be zero. The terms of the mortgage loans include variable interest rates. Insurance contracts can be liquidated without loss of principal and money market funds consist of underlying securities that are of a short-term, liquid nature.

Investments also include various mortgage-backed securities, collateralized mortgage obligations, structured notes, variable-rate securities and callable bonds that may be considered to be highly sensitive to changes in interest rates due to the existence of prepayment or conversion features. The effective durations of these securities, however, may be low.

At June 30, the fair values of such investments are as follows:

(in thousands of dollars)

| | UNIVERSITY OF CALIFORNIA | | UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS | | UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM | |
|-------------------------------------|--------------------------|--------------------|--|------------------|---|---------------------|
| | 2019 | 2018 | 2019 | 2018 | 2019 | 2018 |
| Mortgage-backed securities | \$656,113 | \$669,109 | \$13,460 | \$53,471 | \$2,691,572 | \$2,795,428 |
| Collateralized mortgage obligations | 610,379 | 501,265 | 10,658 | 22,540 | 922,334 | 830,356 |
| Other asset-backed securities | 266,402 | 271,890 | 22,093 | 27,612 | 508,094 | 1,266,122 |
| Structured notes | 236 | | | | 2,711 | |
| Variable-rate securities | 708,676 | 582,299 | | | 2,160,669 | 2,413,025 |
| Callable bonds | 4,215,677 | 4,067,934 | 476 | | 8,452,259 | 8,466,784 |
| Convertible bonds | 17,215 | 455 | | | 205,222 | 4,618 |
| Total | \$6,474,698 | \$6,092,952 | \$46,687 | \$103,623 | \$14,942,861 | \$15,776,333 |

Mortgage-Backed Securities. These securities are issued primarily by Fannie Mae, Ginnie Mae and Freddie Mac, and various commercial entities and include short embedded prepayment options. Unanticipated prepayments by the obligees of the underlying asset reduce the total expected rate of return.

Collateralized Mortgage Obligations. Collateralized mortgage obligations (CMOs) generate a return based upon either the payment of interest or principal on mortgages in an underlying pool. The relationship between interest rates and prepayments makes the fair value highly sensitive to changes in interest rates. In falling interest rate environments, the underlying mortgages are subject to a higher propensity of prepayments. In rising interest rate environments, the opposite is true.

Other Asset-Backed Securities. Other asset-backed securities also generate a return based upon either the payment of interest or principal on obligations in an underlying pool, generally associated with auto loans or credit cards. As with CMOs, the relationship between interest rates and prepayments makes the fair value highly sensitive to changes in interest rates.

Variable-Rate Securities. These securities are investments with terms that provide for the adjustment of their interest rates on set dates and are expected to have fair values that will be relatively unaffected by interest rate changes. Variable-rate securities may have limits on how high or low the interest rate may change. These constraints may affect the market value of the security.

Callable Bonds. Although bonds are issued with clearly defined maturities, an issuer may be able to redeem, or call, a bond earlier than its maturity date. The University must then replace the called bond with a bond that may have a lower yield than the original. The call feature causes the fair value to be highly sensitive to changes in interest rates.

At June 30, the effective durations for these securities are as follows:

| | UNIVERSITY OF CALIFORNIA | | UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS | | UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM | |
|-------------------------------------|--------------------------|------|--|------|---|------|
| | 2019 | 2018 | 2019 | 2018 | 2019 | 2018 |
| Mortgage-backed securities | 3.0 | 4.3 | 1.6 | 1.5 | 2.5 | 4.1 |
| Collateralized mortgage obligations | 4.1 | 4.7 | 0.8 | 8.3 | 3.7 | 4.1 |
| Other asset-backed securities | 0.4 | 1.1 | 0.8 | 0.2 | 0.7 | 0.8 |
| Variable-rate securities | 3.4 | 3.2 | | | 1.8 | 1.6 |
| Structured notes | 0.9 | | | | 1.1 | |
| Callable bonds | 3.0 | 3.3 | 2.6 | | 3.3 | 3.8 |
| Convertible bonds | 0.4 | 1.7 | | | 0.9 | 1.7 |

Foreign Currency Risk

The University's strategic asset allocation policy for TRIP, UCRS and GEP includes allocations to non-U.S. equities and non-dollar-denominated bonds. The benchmarks for these investments are not hedged; therefore foreign currency risk is part of the investment strategy. Portfolio guidelines for U.S. investment-grade fixed-income securities also allow exposure to non-U.S. dollar-denominated bonds up to 10 percent of the total portfolio market value. Exposure to foreign currency risk from these securities is permitted and it may be fully or partially hedged using forward foreign currency exchange contracts. Under the University's investment policies, such instruments are not permitted for speculative use or to create leverage. Similar limits on foreign exchange exposure apply to the high-yield debt and emerging market debt portfolios.

At June 30, the foreign currency risk expressed in U.S. dollars, organized by currency denomination and investment type, are as follows:

(in thousands of dollars)

| | UNIVERSITY OF CALIFORNIA | | UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS | | UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM | |
|---|--------------------------|--------------------|--|--------------------|---|---------------------|
| | 2019 | 2018 | 2019 | 2018 | 2019 | 2018 |
| <i>Equity securities:</i> | | | | | | |
| Euro | \$729,350 | \$960,899 | \$439 | \$259 | \$3,596,443 | \$3,895,404 |
| British Pound | 228,661 | 272,005 | 913 | 1,109 | 1,669,488 | 1,988,754 |
| Japanese Yen | 338,827 | 438,014 | | | 2,395,527 | 2,562,213 |
| Canadian Dollar | 131,959 | 127,083 | 148 | 1,918 | 906,653 | 722,719 |
| Swiss Franc | 165,398 | 122,133 | 448 | 634 | 999,908 | 839,277 |
| Australian Dollar | 94,235 | 91,454 | 1,069 | 2,915 | 645,339 | 511,526 |
| Hong Kong Dollar | 172,392 | 150,506 | | | 1,131,613 | 676,822 |
| Swedish Krona | 72,038 | 69,163 | | | 344,871 | 289,024 |
| Singapore Dollar | 17,708 | 18,752 | | | 112,683 | 106,094 |
| Danish Krone | 25,330 | 23,938 | | | 178,612 | 167,934 |
| Norwegian Krone | 12,786 | 14,399 | | | 112,538 | 98,172 |
| South Korean Won | 83,299 | 74,413 | 15,203 | 16,337 | 612,854 | 482,103 |
| Brazilian Real | 40,171 | 24,203 | | | 271,299 | 74,405 |
| Indian Rupee | 43,671 | 23,632 | 2,934 | | 471,209 | 275,785 |
| New Taiwan Dollar | 60,605 | 57,938 | | | 399,004 | 234,014 |
| South African Rand | 29,052 | 27,963 | | | 205,161 | 153,225 |
| Thailand Baht | 15,052 | 9,046 | | | 170,839 | 106,332 |
| Mexican Peso | 13,153 | 13,332 | | | 91,115 | 54,541 |
| Chinese Yuan | 1,168 | | | | 33,719 | |
| Other | 63,649 | 56,409 | 6,976 | 83 | 421,910 | 234,769 |
| Subtotal | 2,338,504 | 2,575,282 | 28,130 | 23,255 | 14,770,785 | 13,473,113 |
| <i>Fixed-income securities:</i> | | | | | | |
| Mexico Peso | | | 1,430 | | | |
| Euro | 98 | 113 | | | 536 | 576 |
| Subtotal | 98 | 113 | 1,430 | | 536 | 576 |
| <i>Commingled funds (various currency denominations):</i> | | | | | | |
| Absolute return funds | | | 930,896 | 835,996 | | |
| Non-U.S. equity funds | 2,385,721 | 2,172,821 | 1,133,275 | 1,016,679 | 8,198,932 | 8,958,098 |
| Private equity | 24,933 | 7,255 | 119,908 | 82,228 | 108,682 | 98,116 |
| Real estate investment trusts | | | 10,291 | 16,402 | | |
| Real assets | 42,682 | 32,301 | 73,104 | 67,946 | 191,288 | 149,441 |
| Non U.S. bond funds | 144,613 | 135,861 | 20,727 | 21,697 | 14 | 14 |
| Balanced funds | | | 133,575 | 139,769 | | |
| Subtotal | 2,597,949 | 2,348,238 | 2,421,776 | 2,180,717 | 8,498,916 | 9,205,669 |
| <i>Investment derivatives:</i> | | | | | | |
| Australian Dollar | 1 | 1 | | | 51 | 58 |
| Canadian Dollar | 5 | 32 | | | 64 | 59 |
| British Pound | 3 | 30 | | | 135 | 177 |
| Japanese Yen | 2 | (20) | | | 94 | (666) |
| Hong Kong Dollar | | | | | 8 | |
| Euro | 113 | 120 | | | 1,172 | 369 |
| Other | 22 | | | | 158 | 27 |
| Subtotal | 146 | 163 | | | 1,682 | 24 |
| <i>Publicly traded real estate investment trusts:</i> | | | | | | |
| Australian Dollar | 12,029 | 11,568 | | | 73,586 | 64,239 |
| Euro | 9,605 | 14,112 | | | 65,922 | 87,183 |
| British Pound | 13,070 | 15,004 | | | 78,198 | 86,648 |
| Japanese Yen | 17,280 | 9,817 | | | 103,838 | 52,635 |
| South African Rand | 1,325 | 1,499 | | | 6,685 | 7,704 |
| Singapore Dollar | 6,461 | 4,059 | | | 37,628 | 21,148 |
| Canadian Dollar | 5,157 | 1,633 | | | 28,971 | 9,360 |
| Mexican Peso | 694 | 595 | | | 3,194 | 2,944 |
| Other | 3,527 | 2,521 | | | 22,569 | 11,232 |
| Subtotal | 69,148 | 60,808 | | | 420,591 | 343,093 |
| Total exposure to foreign currency risk | \$5,005,845 | \$4,984,604 | \$2,451,336 | \$2,203,972 | \$23,692,510 | \$23,022,475 |

The University's Investment Pools

The composition of the University's investments at June 30, 2019, by investment pool, are as follows:

(in thousands of dollars)

| | UNIVERSITY OF CALIFORNIA | | | | | TOTAL |
|---|--------------------------|--------------------|--------------------|---------------------|--------------------|---------------------|
| | STIP | TRIP | BGP | GEP | OTHER | |
| <i>Equity securities:</i> | | | | | | |
| Domestic | | \$1,722,441 | \$487,757 | \$1,633,627 | \$115,083 | \$3,958,908 |
| Foreign | | 1,323,101 | 373,345 | 592,005 | 50,053 | 2,338,504 |
| <i>Fixed- or variable-income securities:</i> | | | | | | |
| U.S. government-guaranteed | \$2,202,780 | 883,111 | | 216,952 | 70,992 | 3,373,835 |
| Other U.S. dollar-denominated | 5,746,781 | 3,330,143 | | 907,977 | 245,495 | 10,230,396 |
| Foreign currency-denominated | | | | 98 | | 98 |
| Commingled funds | 8,619 | 1,742,286 | 589,714 | 8,758,395 | 1,097,407 | 12,196,421 |
| Investment derivatives | | 706 | 125 | (308) | 22 | 545 |
| Publicly traded real estate investment trusts | | 98,431 | 27,977 | 133,835 | 4,917 | 265,160 |
| Mortgage loans | 766,748 | | | | | 766,748 |
| Real estate | | 144,652 | | 831,811 | 59,014 | 1,035,477 |
| Other investments | | | | | 121,256 | 121,256 |
| Subtotal | 8,724,928 | 9,244,871 | 1,478,918 | 13,074,392 | 1,764,239 | 34,287,348 |
| Campus foundations' investments with the University | (1,529,399) | (25,946) | | (1,124,899) | (212,200) | (2,892,444) |
| UCRS investment in the STIP | (2,687,523) | | | | | (2,687,523) |
| Total investments | \$4,508,006 | \$9,218,925 | \$1,478,918 | \$11,949,493 | \$1,552,039 | \$28,707,381 |

The composition of the University's investments at June 30, 2018, by investment pool, are as follows:

(in thousands of dollars)

| | UNIVERSITY OF CALIFORNIA | | | | | TOTAL |
|---|--------------------------|--------------------|---------------------|--------------------|-----------|---------------------|
| | STIP | TRIP | GEP | OTHER | | |
| <i>Equity securities:</i> | | | | | | |
| Domestic | | \$1,747,569 | \$1,097,837 | \$136,487 | | \$2,981,893 |
| Foreign | | 1,422,238 | 1,109,393 | 43,652 | | 2,575,283 |
| <i>Fixed- or variable-income securities:</i> | | | | | | |
| U.S. government-guaranteed | \$2,284,617 | 694,153 | 355,374 | 65,426 | | 3,399,570 |
| Other U.S. dollar-denominated | 8,212,850 | 3,447,620 | 904,769 | 225,563 | | 12,790,802 |
| Foreign currency-denominated | | | 113 | | | 113 |
| Commingled funds | | 62,531 | 1,517,144 | 7,545,543 | 1,045,951 | 10,171,169 |
| Investment derivatives | | | (572) | (4,912) | (36) | (5,520) |
| Publicly traded real estate investment trusts | | | 98,739 | 120,248 | 5,049 | 224,036 |
| Mortgage loans | | 510,765 | | | | 510,765 |
| Real estate | | | 126,476 | 276,569 | 25,545 | 428,590 |
| Other investments | | | | | 27,701 | 27,701 |
| Subtotal | 11,070,763 | 9,053,367 | 11,404,934 | 1,575,338 | | 33,104,402 |
| Campus foundations' investments with the University | (1,395,676) | (26,298) | (981,095) | (208,582) | | (2,611,651) |
| UCRS investment in the STIP | (3,123,754) | | | | | (3,123,754) |
| Total investments | \$6,551,333 | \$9,027,069 | \$10,423,839 | \$1,366,756 | | \$27,368,997 |

The total investment returns based upon unit values, representing the combined income plus net appreciation or depreciation in the fair value of investments, for the year ended June 30, 2019 were 6.3 percent for TRIP, 3.5 percent since inception of April 1, 2019 for BGP, 8.2 percent for GEP and 6.0 percent for UCRP. The total investment returns based upon unit values, representing the combined income plus net appreciation or depreciation in the fair value of investments, for the year ended June 30, 2018, were 4.5 percent for TRIP, 8.9 percent for GEP and 7.8 percent for UCRP. The investment return for STIP distributed to participants, representing combined income and realized gains or losses, during the same periods, was 2.2 percent and 2.0 percent, respectively. Other investments consist of numerous, small portfolios of investment or individual securities, each with its own individual rate of return.

Related Party Relationships with the University

UCRS and campus foundations may invest available cash in STIP. Shares are purchased or redeemed in STIP at a constant value of \$1 per share. Actual income earned, including any realized gains or losses on the sale of STIP investments, is allocated to UCRS and campus foundations based upon the number of shares held. Unrealized gains and losses associated with the fluctuation in the fair value of investments included in STIP are recorded by the University as the manager of the pool. The net asset value for STIP is held at a constant value of \$1 and is not adjusted for unrealized gains and losses associated with the fluctuation in the fair value of investments included in STIP.

The campus foundations may also purchase or redeem shares in GEP, BGP, TRIP or other investment pools at the unitized value of the portfolio at the time of purchase or redemption. Actual income earned is allocated to the campus foundations based upon the number of shares held.

Campus Foundations

The campus foundations' cash and cash equivalents and investments that are invested with the University and managed by the Chief Investment Officer are excluded from the University's statement of net position and included in the campus foundations' statement of net position. Under the accounting policies elected by each campus foundation, certain component units classify all or a portion of their investment in STIP and TRIP as cash and cash equivalents, rather than investments. Substantially all of the campus foundations' investments managed by the Chief Investment Officer are categorized as commingled funds or commingled money market funds by the campus foundations in the composition of investments.

The fair value of the campus foundations' cash and cash equivalents and investments that are invested with the University, by investment pool, at June 30 are as follows:

| <i>(in thousands of dollars)</i> | 2019 | 2018 |
|---|--------------------|--------------------|
| STIP | \$1,529,399 | \$1,398,634 |
| TRIP | 25,946 | 26,298 |
| GEP | 1,124,899 | 981,095 |
| Other investment pools | 212,200 | 205,624 |
| Campus foundations' investments with the University | 2,892,444 | 2,611,651 |
| Classified as cash and cash equivalents by campus foundations | (357,676) | (386,391) |
| Classified as investments by campus foundations | \$2,534,768 | \$2,225,260 |

Investment income in the University's statement of revenues, expenses and changes in net position is net of income earned by, and distributed to, the campus foundations totaling \$38.2 million and \$31.8 million for the years ended June 30, 2019 and 2018, respectively.

UCRS

UCRS had \$2.7 billion and \$3.1 billion invested in STIP at June 30, 2019 and 2018, respectively. These investments are excluded from the University's statement of net position and are included in UCRS' statement of plans' fiduciary net position. They are categorized as commingled money market funds in the composition of investments for UCRS. STIP investment income in the University's statement of revenues, expenses and changes in net position is net of income earned by, and distributed to, UCRS totaling \$68.3 million and \$43.4 million for the years ended June 30, 2019 and 2018, respectively.

Agency Relationships with the University

STIP and GEP are external investment pools and include investments on behalf of external organizations that are associated with the University, although not financially accountable to the University. These organizations are not required to invest in these pools. Participants purchase or redeem shares in STIP at a constant value of \$1 per share and purchase or redeem shares in GEP at the unitized value of the portfolio at the time of purchase or redemption. Actual income earned is allocated to participants based upon the number of shares held.

The fair value of these investments in each investment pool and the related liability associated with these organizations that are included in the University's statement of net position at June 30 are as follows:

| <i>(in thousands of dollars)</i> | 2019 | 2018 |
|----------------------------------|------------------|------------------|
| STIP | \$127,407 | \$95,502 |
| GEP | 296,651 | 309,627 |
| Other investment pools | 9,155 | 4,805 |
| Total agency assets | \$433,213 | \$409,934 |
| Funds held for others | \$433,213 | \$409,934 |

The composition of the net position at June 30 for STIP and GEP are as follows:

| <i>(in thousands of dollars)</i> | STIP | | GEP | |
|----------------------------------|---------------------|---------------------|---------------------|---------------------|
| | 2019 | 2018 | 2019 | 2018 |
| Investments | \$8,724,928 | \$11,070,763 | \$13,074,391 | \$11,404,934 |
| Investment of cash collateral | 72,847 | 126,019 | 228,945 | 256,407 |
| Securities lending collateral | (72,827) | (125,995) | (228,881) | (256,357) |
| Other assets, net | 3,387,851 | 2,929,104 | 145,026 | 607,907 |
| Net position | \$12,112,799 | \$13,999,891 | \$13,219,481 | \$12,012,891 |

Other assets include amounts receivable for pension benefits from the campuses and medical centers of \$3.4 billion and \$3.0 billion at June 30, 2019 and 2018, respectively.

The changes in net position for STIP and GEP for the year ending June 30 are as follows:

| <i>(in thousands of dollars)</i> | STIP | | GEP | |
|--|---------------------|---------------------|---------------------|---------------------|
| | 2019 | 2018 | 2019 | 2018 |
| Net position, beginning of year | \$13,999,891 | \$11,502,056 | \$12,012,891 | \$10,589,342 |
| Investment income | 281,982 | 227,622 | 83,076 | 102,914 |
| Net appreciation (depreciation) in fair value of investments | 121,201 | (82,872) | 922,147 | 887,999 |
| Transfer to TRIP | (21,891) | (416,703) | | |
| Transfer to BGP | (1,002,778) | | | |
| Participant contributions (distributions), net | (1,265,606) | 2,769,788 | 201,367 | 432,636 |
| Net position, end of year | \$12,112,799 | \$13,999,891 | \$13,219,481 | \$12,012,891 |

3. SECURITIES LENDING

The University and UCRS jointly participate in a securities lending program as a means to augment income. The campus foundations' investments that are invested with the University and managed by the Chief Investment Officer are included in the University's investment pools that participate in the securities lending program.

The campus foundations' allocated share of the program's cash collateral received, investment of cash collateral and collateral held for securities lending is determined based upon their equity in the investment pools. The Board of Trustees for each campus foundation may also authorize participation in a direct securities lending program.

Securities are lent to selected brokerage firms for which collateral received equals or exceeds the fair value of such investments lent during the period of the loan. Securities loans immediately terminate upon notice by either the University or the borrower. Collateral may be cash or securities issued by the U.S. government or its agencies, or the sovereign or provincial debt of foreign countries. Securities collateral cannot be pledged or sold by the University unless the borrower defaults.

Loans of domestic equities and all fixed-income securities are initially collateralized at 102 percent of the fair value of securities lent. Loans of foreign equities are initially collateralized at 105 percent. All borrowers are required to provide additional collateral by the next business day if the value of the collateral falls to less than 100 percent of the fair value of securities lent.

Cash collateral received from the borrower is invested by lending agents, as agents for the University, in investment pools in the name of the University, with guidelines approved by the University. These investments are shown as investment of cash collateral in the statement of net position. At June 30, 2019 and 2018, the securities in these pools had a weighted average maturity of 20 days and 15 days, respectively. The University records a liability for the return of the cash collateral shown as collateral held for securities lending in the statement of net position. Securities collateral received from the borrower is held in investment pools by the University's custodial bank.

At June 30, 2019 and 2018, the University had insignificant exposure to borrowers because the amounts the University owed the borrowers were substantially the same as the amounts the borrowers owed the University. The University is indemnified by its lending agents against any losses incurred as a result of borrower default.

The composition of the securities lending programs at June 30 are as follows:

| <i>(in thousands of dollars)</i> | UNIVERSITY OF CALIFORNIA | | UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS | | UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM | |
|---------------------------------------|--------------------------|--------------------|--|-----------------|---|---------------------|
| | 2019 | 2018 | 2019 | 2018 | 2019 | 2018 |
| SECURITIES LENT | | | | | | |
| <i>For cash collateral:</i> | | | | | | |
| Equity securities: | | | | | | |
| Domestic | \$322,500 | \$468,126 | | | \$2,932,651 | \$3,186,668 |
| Foreign | 63,898 | 3,975 | | | 349,318 | |
| Fixed-income securities: | | | | | | |
| U.S. government-guaranteed | 145,563 | 171,984 | | | 877,269 | 1,744,379 |
| U.S. agency | 5,632 | | | | | |
| Other U.S. dollar-denominated | 432,202 | 497,720 | | | 1,819,850 | 1,138,667 |
| Foreign currency-denominated | 2,250 | | | | 38,235 | |
| Foundations' share | (36,384) | (45,288) | \$36,384 | \$45,288 | | |
| Lent for cash collateral | 935,661 | 1,096,517 | 36,384 | 45,288 | 6,017,323 | 6,069,714 |
| <i>For securities collateral:</i> | | | | | | |
| Equity securities: | | | | | | |
| Domestic | 339,723 | 358,657 | | | 3,240,103 | 3,057,625 |
| Foreign | 178,023 | 147,358 | | | 1,197,501 | 1,242,195 |
| Fixed-income securities: | | | | | | |
| U.S. government-guaranteed | 294,545 | 376,684 | | | 2,705,074 | 3,174,988 |
| Other U.S. dollar-denominated | 46,480 | 123,429 | | | 471,693 | 710,653 |
| Foreign currency-denominated | 57 | | | | 3,221 | |
| Lent for securities collateral | 858,828 | 1,006,128 | | | 7,617,592 | 8,185,461 |
| Total securities lent | \$1,794,489 | \$2,102,645 | \$36,384 | \$45,288 | \$13,634,915 | \$14,255,175 |
| COLLATERAL RECEIVED | | | | | | |
| Cash | \$991,052 | \$1,209,769 | | | \$6,126,849 | \$6,157,131 |
| Foundations' share | (36,384) | (45,288) | \$36,384 | \$45,288 | | |
| Total cash collateral received | 954,668 | 1,164,481 | 36,384 | 45,288 | 6,126,849 | 6,157,131 |
| Securities | 932,360 | 1,095,763 | | | 8,269,811 | 8,914,709 |
| Total collateral received | \$1,887,028 | \$2,260,244 | \$36,384 | \$45,288 | \$14,396,660 | \$15,071,840 |
| INVESTMENT OF CASH COLLATERAL | | | | | | |
| <i>Fixed-income securities:</i> | | | | | | |
| Other U.S. dollar-denominated: | | | | | | |
| Corporate bonds | \$51,173 | \$32,858 | | | \$316,357 | \$167,234 |
| Commercial paper | 120,336 | 146,215 | | | 743,938 | 744,164 |
| Repurchase agreements | 276,518 | 555,710 | | | 1,709,481 | 2,828,291 |
| Corporate - asset-backed securities | 26,269 | 5,803 | | | 162,397 | 29,534 |
| Certificates of deposit/time deposits | 441,744 | 381,408 | | | 2,730,933 | 1,941,184 |
| Supranational/foreign | 76,119 | 88,252 | | | 470,583 | 449,163 |
| Other assets (liabilities), net* | (835) | (251) | | | (5,163) | (1,280) |
| Foundations' share | (36,384) | (45,288) | \$36,384 | \$45,288 | | |
| Investment of cash collateral | 954,940 | 1,164,707 | 36,384 | 45,288 | \$6,128,526 | \$6,158,290 |
| Less: Current portion | (839,994) | (1,054,406) | (32,733) | (40,999) | | |
| Noncurrent portion | \$114,946 | \$110,301 | \$3,651 | \$4,289 | | |

* Other assets (liabilities), net is comprised of pending settlements of cash collateral investments.

The University earns interest and dividends on the collateral held during the loan period, as well as a fee from the brokerage firm, and is obligated to pay a fee and rebate to the borrower. The University receives the net investment income. The securities lending income and fees and rebates for the year ended June 30 are as follows:

| <i>(in thousands of dollars)</i> | UNIVERSITY OF CALIFORNIA | | UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS | | UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM | |
|--|--------------------------|----------------|--|--------------|---|-----------------|
| | 2019 | 2018 | 2019 | 2018 | 2019 | 2018 |
| Securities lending income | \$32,269 | \$23,743 | \$1,497 | \$1,008 | \$212,596 | \$136,099 |
| Securities lending fees and rebates | (23,810) | (14,785) | (1,112) | (642) | (160,185) | (89,025) |
| Securities lending investment income, net | \$8,459 | \$8,958 | \$385 | \$366 | \$52,411 | \$47,074 |

Investment Risk Factors

There are a variety of potential risk factors involved in a securities lending program. Risks associated with the investment of cash collateral may include the credit risk from fixed-income securities, concentration of credit risk, interest rate risk and foreign currency risk. In addition, there may be custodial credit risk associated with both cash and securities received as collateral for securities lent.

The University's and UCRS' investment guidelines and other information related to each of these risks are summarized below. Campus foundations that participate in a securities lending program may have their own individual investment policies designed to limit the same risks.

Credit Risk

The University's and UCRS' investment guidelines for the investment of cash collateral maintained in separately managed collateral pools restrict the credit rating of issuers at the time of purchase to no less than A-1, P-1 or F-1 for short-term securities and no less than A2/A for long-term securities. Asset-backed securities must have a rating of AAA at the time of purchase.

The credit risk profile for fixed- or variable-income securities associated with the investment of cash collateral at June 30 are as follows:

| <i>(in thousands of dollars)</i> | UNIVERSITY OF CALIFORNIA | | UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS | | UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM | |
|--|--------------------------|----------|--|----------|---|-----------|
| | 2019 | 2018 | 2019 | 2018 | 2019 | 2018 |
| <i>Fixed- or variable-income securities:</i> | | | | | | |
| Other U.S. dollar-denominated: | | | | | | |
| AAA | \$48,557 | \$94,055 | | | \$300,188 | \$478,695 |
| AA- | 85,376 | 118,258 | | | 527,811 | 601,875 |
| A+ | 301,142 | 10,185 | | | 1,861,709 | 51,834 |
| A | 42,688 | 243,045 | | | 263,903 | 1,236,981 |
| A- | | | | | | |
| A-1 / A-2 / P-1 / F-1 | 184,046 | 188,995 | | | 1,137,805 | 961,888 |
| Not rated | 53,831 | | | | 332,792 | |
| Other assets (liabilities) net*: Not rated | (835) | (251) | | | (5,163) | (1,280) |
| Campus foundations' share | (36,384) | (45,288) | \$36,384 | \$45,288 | | |

* Other assets (liabilities), net is comprised of pending settlements of cash collateral investments.

Custodial Credit Risk

Cash collateral received for securities lent is invested in pools by the University's lending agents. The University's and UCRS' securities related to the investment of cash collateral are registered in the University's name by the lending agents. Securities collateral received for securities lent are held in investment pools by the University's lending agents. As a result, custodial credit risk is remote.

Concentration of Credit Risk

The University's and UCRS' investment guidelines with respect to the concentration of credit risk associated with the investment of cash collateral in the separately managed collateral pools restricts investments in any single issuer of corporate debt securities, time deposits, certificates of deposit, banker's acceptances and money market funds to no more than 5 percent of the portfolio value at the time of purchase. Campus foundations that directly participate in a securities lending program do not have specific investment policies related to concentration of credit risk, although the lending agreements with the agents establish restrictions for the type of investments, as well as minimum credit ratings.

Investments in issuers other than U.S. government-guaranteed securities that represent 5 percent or more of the total investment of cash collateral at June 30 are as follows:

| <i>(in thousands of dollars)</i> | UNIVERSITY OF CALIFORNIA | | UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM | |
|--------------------------------------|--------------------------|----------|---|-----------|
| | 2019 | 2018 | 2019 | 2018 |
| Morgan Stanley & Co LLC | \$69,617 | \$98,530 | \$430,383 | \$501,471 |
| Skandinaviska Enskilda Banken AB | 53,334 | | 329,721 | |
| UBS AG | 51,535 | | 318,596 | |
| RCap Securities Inc. | | 102,307 | | 520,693 |
| Goldman Sachs & Company | | 73,898 | | 376,102 |
| Nomura Securities International Inc. | | 63,716 | | 324,284 |

Interest Rate Risk

The nature of individual securities in the collateral pools allows for the use of weighted average maturity as an effective risk management measure. The University's and UCRS' investment guidelines with respect to the interest rate risk associated with the investment of cash collateral in the separately managed collateral pools require the weighted average maturity of the entire collateral pool to be less than 120 days. The maturity of securities issued by the U.S. government and asset-backed securities must be less than five years, corporate debt obligations must be less than two years and time deposits must be less than 190 days.

The weighted average maturity expressed in days for fixed- or variable-income securities associated with the investment of cash collateral at June 30 are as follows:

| <i>(in days)</i> | UNIVERSITY OF CALIFORNIA | | UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM | |
|--|--------------------------|------|---|------|
| | 2019 | 2018 | 2019 | 2018 |
| <i>Fixed- or variable-income securities:</i> | | | | |
| <i>Other U.S. dollar-denominated:</i> | | | | |
| Corporate bonds | 19 | 26 | 19 | 26 |
| Commercial paper | 26 | 22 | 26 | 22 |
| Repurchase agreements | 11 | 6 | 11 | 6 |
| Corporate asset-backed securities | 29 | 20 | 29 | 20 |
| Certificates of deposit/time deposits | 23 | 24 | 23 | 24 |
| Supranational/foreign | 18 | 16 | 18 | 16 |

Investment of cash collateral may include various asset-backed securities, structured notes and variable-rate securities that may be considered to be highly sensitive to changes in interest rates due to the existence of prepayment or conversion features, although the weighted average maturity may be short.

At June 30, the fair value of investments that are considered to be highly sensitive to changes in interest rates are as follows:

| <i>(in thousands of dollars)</i> | UNIVERSITY OF CALIFORNIA | | UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS | | UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM | |
|----------------------------------|--------------------------|------------------|--|-----------------|---|--------------------|
| | 2019 | 2018 | 2019 | 2018 | 2019 | 2018 |
| Other asset-backed securities | \$95,060 | \$94,055 | | | \$587,680 | \$478,695 |
| Variable-rate investments | 797,390 | 865,249 | | | 4,929,597 | 4,403,692 |
| Campus foundations' share | (32,755) | (35,905) | \$32,755 | \$35,905 | | |
| Total | \$859,695 | \$923,399 | \$32,755 | \$35,905 | \$5,517,277 | \$4,882,387 |

At June 30, 2019 and 2018, the weighted average maturity expressed in days for asset-backed securities was 23 days and 16 days, respectively and for variable-rate investments it was 153 days and 136 days, respectively.

Foreign Currency Risk

The University's and UCRS' investment policy with respect to the foreign currency risk associated with the investment of cash collateral maintained in separate collateral pools restricts investments to U.S. dollar-denominated securities. Therefore, there is no foreign currency risk.

4. DERIVATIVE FINANCIAL INSTRUMENTS

The University may use derivatives including futures, forward contracts, options and interest rate swap contracts as a substitute for investment in equity and fixed-income securities to reduce the effect of fluctuating foreign currencies on foreign currency-denominated investments, or to limit its exposure of variable-rate bonds to changes in market interest rates. The Board of Trustees for each campus foundation may also authorize derivatives in its investment policy.

The University enters into futures contracts for the purpose of acting as a substitute for investment in equity and fixed-income securities. A futures contract is an agreement between two parties to buy and sell a security or financial index, interest rate or foreign currency at a set price on a future date. They are standardized contracts that can be easily bought and sold and are exchange-traded. Upon entering into such a contract, the University is required to pledge to the broker an amount of cash or securities equal to the minimum initial margin requirements of the exchange on which the contract is traded. Pursuant to the contract, the University agrees to receive from, or pay to, the counterparty an amount of cash equal to the daily fluctuation in the value of the contract. These contracts are settled on a daily basis, with the resulting realized gain or loss included in the statement of revenues, expenses and changes in net position. The settlement amount at the end of each day for each of the contracts, or variation margin, is included in investments and represents the fair value of the contracts.

Forward contracts are similar to futures contracts, although they are not exchange-traded. Foreign currency exchange contracts are forward contracts used to hedge against foreign currency exchange rate risks on non-U.S. dollar-denominated investment securities and to increase or decrease exposure to various foreign currencies.

An options contract gives the University the right, but not the obligation, to buy or sell a specified security or index at a fixed price during a specified period for a nonrefundable fee (the "premium"). The maximum loss to the University is limited to the premium originally paid for covered options. The University initially records premiums paid for the purchase of these options in the statement of net position as an investment which is subsequently adjusted to reflect the fair value of the options, with unrealized gains and losses included in the statement of revenues, expenses and changes in net position.

Rights and warrants provide the holder with the right, but not the obligation, to buy a stock at a predetermined price for a finite period of time. Warrants usually have a longer time period to expiration. The holder of a right or warrant is permitted to buy at a price that may be below the actual market price for that stock. Warrants and rights cease to exist and become worthless if not used by their expiration date.

An interest rate swap is a contractual agreement entered into between the University and a counterparty under which each agrees to exchange periodic fixed or variable payments for an agreed period of time based upon a notional amount of principal or value of the underlying contract. The payments correspond to an equity index, an interest rate or to currency. A credit default swap is an agreement whereby the seller will compensate the buyer in the event of a loan default. A swaption is an option granting its owner the right but not the obligation to enter into an underlying swap. The University considers its futures, forward contracts, options, credit default swaps, swaptions, rights, warrants and certain interest rate swaps to be investment derivatives.

As a means to lower the University's borrowing costs, when compared against fixed-rate bonds at the time of issuance, the University entered into interest rate swap agreements in connection with certain of its variable-rate Medical Center Pooled Revenue Bonds and General Revenue Bonds. The University determined that certain of its interest rate swaps are derivative instruments that meet the criteria for an effective hedge. Certain of the interest rate swaps are considered hybrid instruments since, at the time of execution, the fixed rate on each of the swaps was off-market and the University received an up-front payment. As such, these swaps are each comprised of a derivative instrument, an at-the-market swap that is an effective hedge, and a companion instrument, a borrowing represented by the up-front payment. The unamortized amount of the borrowing under the companion instruments was \$71.4 million and \$75.2 million at June 30, 2019 and 2018, respectively.

Due to the upcoming phase out of LIBOR (the London Interbank Offered Rate), the University amended certain interest rate swap agreements to change the index rate from LIBOR to the Federal Funds Rate in 2019. As a result, the University terminated hedge accounting for certain previous LIBOR swap agreements and commenced hedge accounting for the new agreements. The result of terminating hedge accounting for the LIBOR swaps was to recognize a loss of \$8.6 million in other nonoperating expenses. To commence hedge accounting for the new Federal Funds Rate swap agreements through 2023, an additional borrowing for the off-the-market rate swap of \$8.8 million was recognized. In 2019, to reduce rollover risk, the University also entered into new interest rate swap agreements commencing in 2023 through 2039.

The fair value balances and notional amounts of derivative instruments outstanding at June 30, categorized by type, and the changes in fair value of such derivatives are as follows:

University of California

(in thousands of dollars)

| CATEGORY | NOTIONAL AMOUNT | | FAIR VALUE-POSITIVE (NEGATIVE) | | | CHANGES IN FAIR VALUE | | |
|--|-----------------|-----------|--------------------------------|--------------|------------------|---------------------------------|-------------------|----------------|
| | 2019 | 2018 | CLASSIFICATION | 2019 | 2018 | CLASSIFICATION | 2019 | 2018 |
| INVESTMENT DERIVATIVES | | | | | | | | |
| <i>Futures contracts:</i> | | | | | | | | |
| <i>Domestic equity futures:</i> | | | | | | | | |
| Long positions | \$58,652 | \$211,945 | Investments | \$888 | (\$5,755) | Net appreciation (depreciation) | (\$14,735) | (\$5,789) |
| Short positions | | | Investments | | | Net appreciation (depreciation) | 7 | |
| <i>Foreign equity futures:</i> | | | | | | | | |
| Long positions | 1,174 | 6,492 | Investments | 14 | 15 | Net appreciation (depreciation) | (604) | 8,090 |
| Futures contracts, net | | | | 902 | (5,740) | | (15,332) | 2,301 |
| <i>Foreign currency exchange contracts, net:</i> | | | | | | | | |
| Long positions | 241 | 1,636 | Investments | 1 | (15) | Net appreciation (depreciation) | 1,299 | (1) |
| Short positions | 133,966 | | Investments | (565) | | Net appreciation (depreciation) | 2,368 | (7) |
| Foreign currency exchange contracts, net | | | | (564) | (15) | | 3,667 | (8) |
| <i>Other:</i> | | | | | | | | |
| Stock rights/warrants | | | Investments | 207 | 235 | Net appreciation (depreciation) | (10) | 38 |
| Other, net | | | | 207 | 235 | | (10) | 38 |
| Total investment derivatives | | | | \$545 | (\$5,520) | | (\$11,675) | \$2,331 |
| CASH FLOW HEDGES | | | | | | | | |
| <i>Effective interest rate swaps:</i> | | | | | | | | |
| Pay fixed, receive variable | \$1,435,260 | \$838,850 | Other assets (liabilities) | (\$130,161) | (\$54,839) | Deferred (inflows) outflows | (\$75,322) | \$35,393 |

University of California Campus Foundations

(in thousands of dollars)

| CATEGORY | NOTIONAL AMOUNT | | FAIR VALUE-POSITIVE (NEGATIVE) | | | CHANGES IN FAIR VALUE | | |
|-------------------------------------|-----------------|----------|--------------------------------|----------------|----------------|---------------------------------|-------------------|-----------------|
| | 2019 | 2018 | CLASSIFICATION | 2019 | 2018 | CLASSIFICATION | 2019 | 2018 |
| INVESTMENT DERIVATIVES | | | | | | | | |
| Options/swaptions | \$55,128 | \$54,231 | Investments | (\$388) | (\$355) | Net appreciation (depreciation) | \$672 | \$3,168 |
| Swaps | 169,999 | 250,603 | Investments | | | Net appreciation (depreciation) | (10,847) | 16,090 |
| Total investment derivatives | | | | (\$388) | (\$355) | | (\$10,175) | \$19,258 |

University of California Retirement System

(in thousands of dollars)

| CATEGORY | NOTIONAL AMOUNT | | FAIR VALUE-POSITIVE (NEGATIVE) | | | CHANGES IN FAIR VALUE | | |
|--|-----------------|-----------|--------------------------------|----------------|-------------------|---------------------------------|-------------------|-----------------|
| | 2019 | 2018 | CLASSIFICATION | 2019 | 2018 | CLASSIFICATION | 2019 | 2018 |
| INVESTMENT DERIVATIVES | | | | | | | | |
| <i>Futures contracts:</i> | | | | | | | | |
| <i>Domestic equity futures:</i> | | | | | | | | |
| Long positions | \$401,208 | \$926,476 | Investments | \$5,228 | (\$20,156) | Net appreciation (depreciation) | (\$39,204) | (\$19,697) |
| Short positions | | (16,189) | Investments | | 665 | Net appreciation (depreciation) | 1,836 | 947 |
| <i>Foreign equity futures:</i> | | | | | | | | |
| Long positions | 66,200 | 58,219 | Investments | 732 | (924) | Net appreciation (depreciation) | 538 | 61,531 |
| Short positions | | (11,875) | Investments | | 77 | Net appreciation (depreciation) | 809 | (1,077) |
| Futures contracts, net | | | | 5,960 | (20,338) | | (36,021) | 41,704 |
| <i>Foreign currency exchange contracts, net:</i> | | | | | | | | |
| Long positions | 12,830 | 35,282 | Investments | 65 | (320) | Net appreciation (depreciation) | (2,915) | 7,332 |
| Short positions | 206,476 | | Investments | (870) | | Net appreciation (depreciation) | 5,469 | (10,695) |
| Foreign currency exchange contracts, net | | | | (805) | (320) | | 2,554 | (3,363) |
| <i>Other:</i> | | | | | | | | |
| Stock rights/warrants | | 2 | Investments | 1,330 | 1,516 | Net appreciation (depreciation) | 135 | 332 |
| Other, net | | | | 1,330 | 1,516 | | 135 | 332 |
| Total investment derivatives | | | | \$6,485 | (\$19,142) | | (\$33,332) | \$38,673 |

Objectives and Terms of Hedging Derivative Instruments

The objectives and terms of the hedging derivative instruments outstanding at June 30, along with the credit rating of the associated counterparty, are as follows:

UNIVERSITY OF CALIFORNIA (in thousands of dollars)

| TYPE | OBJECTIVE | NOTIONAL AMOUNT | | EFFECTIVE DATE | MATURITY DATE | CASH PAID OR RECEIVED | TERMS | COUNTERPARTY CREDIT RATING | FAIR VALUE | |
|--|---|--------------------|------------------|----------------|-------------------|-----------------------|--|----------------------------|--------------------|-------------------|
| | | 2019 | 2018 | | | | | | 2019 | 2018 |
| Pay fixed, receive variable interest rate swap | Hedge of changes in cash flows on variable-rate Medical Center Pooled Revenue Bonds | \$60,485 | \$64,075 | 2007 | 2032 | None | Pay fixed 3.5897%; receive 58% of 1-Month LIBOR* plus 0.48% | Aa2/A+ | (\$8,319) | (\$6,435) |
| Pay fixed, receive variable interest rate swap | Hedge of changes in cash flows on variable-rate Medical Center Pooled Revenue Bonds | 124,775 | 124,775 | 2016 | 2030 through 2043 | None | Pay fixed 4.6359%; receive 67% of 3-Month LIBOR* plus 0.69%** | Aa2/A+ | (41,528) | (31,577) |
| Pay fixed, receive variable interest rate swap | Hedge of changes in cash flows on variable-rate General Revenue Bonds | 400,000 | | 2019 | 2023 | None | Pay fixed 1.8982%; receive 70% of Federal Funds Rate + 0.0925% | Aa2/AA- | (12,295) | |
| Pay fixed, receive variable interest rate swap | Hedge of changes in cash flows on variable-rate General Revenue Bonds | | 400,000 | 2013 | 2019 | None | Pay fixed 1.8982%; receive 70% of 1-Month LIBOR* | Aa2/AA- | | 466 |
| Pay fixed, receive variable interest rate swap | Hedge of changes in cash flows on variable-rate General Revenue Bonds | 100,000 | | 2019 | 2023 | None | Pay fixed 1.9057%; receive 70% of Federal Funds Rate + 0.0925% | Aa2/AA- | (3,105) | |
| Pay fixed, receive variable interest rate swap | Hedge of changes in cash flows on variable-rate General Revenue Bonds | | 100,000 | 2013 | 2019 | None | Pay fixed 1.9057%; receive 70% of 1-Month LIBOR* | Aa2/AA- | | 80 |
| Pay fixed, receive variable interest rate swap | Hedge of changes in cash flows on variable-rate General Revenue Bonds | 100,000 | | 2019 | 2023 | None | Pay fixed 1.8980%; receive 70% of Federal Funds Rate + 0.0975% | Aa2/A+ | (3,053) | |
| Pay fixed, receive variable interest rate swap | Hedge of changes in cash flows on variable-rate General Revenue Bonds | | 100,000 | 2013 | 2019 | None | Pay fixed 1.8980%; receive 70% of 1-Month LIBOR* | Aa2/A+ | | 118 |
| Pay fixed, receive variable interest rate swap | Hedge of changes in cash flows on variable-rate Medical Center Pooled Revenue Bonds | 24,250 | 24,250 | 2016 | 2045 | None | Pay fixed 4.741%; receive 67% of 3-Month LIBOR* +0.79% | Aa2/A+ | (11,198) | (8,307) |
| Pay fixed, receive variable interest rate swap | Hedge of changes in cash flows on variable-rate Medical Center Pooled Revenue Bonds | 25,750 | 25,750 | 2016 | 2047 | None | Pay fixed 4.741%; receive 67% of 3-Month LIBOR* +0.79% | Aa2/A+ | (12,440) | (9,184) |
| Pay fixed, receive variable interest rate swap | Hedge of changes in cash flows on variable-rate General Revenue Bonds | 500,000 | | 2023 | 2039 | None | Pay fixed 1.9817%; receive 70% of Federal Funds Rate | Aa2/AA- | (32,712) | |
| Pay fixed, receive variable interest rate swap | Hedge of changes in cash flows on variable-rate General Revenue Bonds | 100,000 | | 2023 | 2039 | None | Pay fixed 1.8999%; receive 70% of Federal Funds Rate | Aa2/A+ | (5,511) | |
| Interest rate swaps, net | | \$1,435,260 | \$838,850 | | | | | | (\$130,161) | (\$54,839) |

* London Interbank Offered Rate (LIBOR).

**Weighted average spread.

Hedging Derivative Instrument Risk Factors

Credit Risk

The University could be exposed to credit risk if the interest rate swap counterparties to the contracts are unable to meet the terms of the contracts. Contracts with positive fair values are exposed to credit risk. The University faces a maximum possible loss equivalent to the amount of the derivative's fair value, less any collateral held by the University provided by the counterparty. Contracts with negative fair values are not exposed to credit risk.

Although the University has entered into the interest rate swaps with creditworthy financial institutions to hedge its variable-rate debt, there is credit risk for losses in the event of non-performance by counterparties or unfavorable interest rate movements.

There are no collateral requirements related to the interest rate swap with the \$60.5 million notional amount. Depending on the fair value and the counterparty credit rating for the swaps related to the Medical Center Pooled Revenue Bonds with the counterparty that is currently rated Aa2/A+ with a combined notional amount of \$174.8 million, the University may be entitled to receive collateral to the extent the positive fair value exceeds \$20.0 million as of June 30, 2019. At June 30, 2019 and 2018, there was no collateral required.

Depending on the fair value and the counterparty credit rating for the swaps related to the General Revenue Bonds with the counterparty that is currently rated Aa2/AA- with a combined notional amount of \$500.0 million, the University may be entitled to receive collateral to the extent the positive fair value with the counterparty exceeds \$30.0 million. At June 30, 2019 and 2018, there was no collateral required.

Depending on the fair value and the counterparty credit rating for the swap related to the General Revenue Bonds with the counterparty that is currently rated Aa2/A+ with a notional amount of \$100.0 million, the University may be entitled to receive collateral to the extent the positive fair value with the counterparty exceeds \$20.0 million. At June 30, 2019 and 2018, there was no collateral required.

Interest Rate Risk

There is a risk that the value of the interest rate swaps will decline because of changing interest rates. The values of the interest rate swaps with longer maturities tend to be more sensitive to changing interest rates and, therefore, more volatile than those with shorter maturities.

Basis Risk

There is a risk that the basis for the variable payment received on interest rate swaps will not match the variable payment on the bonds. This exposes the University to basis risk whenever the interest rates on the bonds are reset. The interest rate on the bonds is a tax-exempt interest rate, while the basis of the variable receipt on the interest rate swaps is taxable. Tax-exempt interest rates can change without a corresponding change in the LIBOR rate due to factors affecting the tax-exempt market which do not have a similar effect on the taxable market. However, there is no basis or tax risk related to the swaps with the \$149.0 million total notional amount since the variable rate the University pays to the bondholders matches the variable-rate payments received from the swap counterparty and the interest rates are reset at the same intervals.

Termination Risk

There is termination risk for interest rate swaps associated with variable-rate bonds in the event of non-performance by counterparties in an adverse market resulting in cancellation of the synthetic interest rate and returning the interest rate payments to the variable interest rates on the bonds. In addition, depending on the agreement, certain interest rate swaps may be terminated if a counterparty's credit quality rating, as issued by Moody's or Standard & Poor's, falls below certain thresholds. For the interest rate swap with the \$60.5 million notional amount, the termination threshold is reached when the credit quality rating for either the underlying Medical Center Pooled Revenue Bonds or swap counterparty falls below Baa2 or BBB. For the swaps with the combined \$174.8 million notional amount, the termination threshold is reached when the credit quality rating for the underlying Medical Center Pooled Revenue Bonds falls below Baa3/BBB-, or the interest rate swap counterparty's rating falls below Baa2 or BBB.

For the swaps with notional amounts of \$400.0 million and \$100.0 million with a counterparty that is currently rated Aa2/AA-, the termination threshold is reached when the credit quality rating for the underlying General Revenue Bonds falls below Baa2 or BBB, or the swap counterparty's rating falls below A3 or A-. For the swap with a notional amount of \$100.0 million with a counterparty that is currently rated Aa2/A+, the termination threshold is reached when the credit quality rating for the underlying General Revenue Bonds falls below Baa2 or BBB, or the swap counterparty's rating falls below A3 or A-. Upon termination, the University may also owe a termination payment if there is a realized loss based on the fair value of each interest rate swap.

Rollover Risk

The University is exposed to rollover risk on hedging derivative instruments that are hedges of debt that mature or may be terminated prior to the maturity of the hedged debt. When these hedging derivative instruments terminate, the University will be re-exposed to the risks being hedged by the hedging derivative instruments. The University is exposed to rollover risk on the interest rate swaps that mature in June 2039 because the hedged debt is scheduled to mature in May 2048.

5. FAIR VALUE

Fair value is defined in the accounting standards as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. Assets and liabilities reported at fair value are organized into a hierarchy based on the levels of inputs observable in the marketplace that are used to measure fair value. Inputs are used in applying the various valuation techniques and take into account the assumptions that market participants use to make valuation decisions. Inputs may include price information, credit data, liquidity statistics and other factors specific to the financial instrument. Observable inputs reflect market data obtained from independent sources. In contrast, unobservable inputs reflect the entity's assumptions about how market participants would value the financial instrument.

A financial instrument's level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. The following describes the hierarchy of inputs used to measure fair value and the primary valuation methodologies used for financial instruments measured at fair value on a recurring basis:

Level 1 – Prices based on unadjusted quoted prices in active markets that are accessible for identical assets or liabilities are classified as Level 1. Level 1 investments include equity securities and other publicly traded securities.

Level 2 – Quoted prices in markets that are not considered to be active, dealer quotations or alternative pricing sources for similar assets or liabilities for which all significant inputs are observable, either directly or indirectly, are classified as Level 2. Level 2 investments include fixed- or variable-income securities, commingled funds, certain derivatives and other assets that are valued using market information.

Level 3 – Investments and other assets classified as Level 3 have significant unobservable inputs, as they trade infrequently or not at all. The inputs into the determination of fair value of these investments and other assets are based upon the best information in the circumstance and may require significant management judgment. Level 3 financial instruments include private equity investments, real estate and beneficial interests in irrevocable split-interest agreements.

Net Asset Value (NAV) – Investments whose fair value is measured at NAV are excluded from the fair value hierarchy. Investments in non-governmental entities that do not have a readily determinable fair value may be valued at NAV. Investments measured at NAV include hedge funds, private equity investments and commingled funds.

Not Leveled – Cash and cash equivalents are not measured at fair value and, thus, are not subject to the fair value disclosure requirements.

The following tables summarize the investments and other assets reported at fair value within the fair value hierarchy as of June 30, 2019:

(in thousands of dollars)

| | UNIVERSITY OF CALIFORNIA | | | | | |
|---|--------------------------|---------------------------------------|-------------------------------|------------------------|---------------------|----------------------|
| | TOTAL | QUOTED PRICES IN ACTIVE MARKETS | OTHER OBSERVABLE INPUTS | UNOBSERVABLE INPUTS | NET ASSET VALUE | NOT LEVELED |
| | | (Level 1) | (Level 2) | (Level 3) | (NAV) | |
| Equity securities | \$6,297,412 | \$6,294,977 | | \$2,435 | | |
| Fixed- or variable-income securities: | | | | | | |
| U.S. government-guaranteed | 3,373,835 | 60,324 | \$3,313,511 | | | |
| Other U.S. dollar-denominated | 10,230,396 | 226,062 | 9,924,334 | 80,000 | | |
| Foreign currency-denominated | 98 | | 98 | | | |
| Commingled funds | 12,196,421 | 875,858 | | 513,232 | \$10,742,484 | \$64,847 |
| Investment derivatives | 545 | 147 | 398 | | | |
| Publicly traded real estate investment trusts | 265,160 | 265,160 | | | | |
| Mortgage loans | 766,748 | | | 766,748 | | |
| Real estate | 1,035,477 | | | 59,014 | 976,463 | |
| Other investments | 121,256 | | | 10,383 | 110,873 | |
| Campus foundations' investments with the University | (2,892,444) | | | | | (2,892,444) |
| UCRS investment in STIP | (2,687,523) | | | | | (2,687,523) |
| Total investments | \$28,707,381 | \$7,722,528 | \$13,238,341 | \$1,431,812 | \$11,829,820 | (\$5,515,120) |
| Securities lending investments of cash collateral | \$954,940 | | \$955,775 | | | (\$835) |
| Investments held by trustees | \$1,245,948 | \$43,337 | \$583,306 | | \$265,490 | \$353,815 |
| Beneficial interests included in other noncurrent assets | \$70,789 | | | \$70,789 | | |

(in thousands of dollars)

| | CAMPUS FOUNDATIONS | | | | | |
|---|--------------------|---------------------------------------|-------------------------------|------------------------|--------------------|-----------------|
| | TOTAL | QUOTED PRICES IN ACTIVE MARKETS | OTHER OBSERVABLE INPUTS | UNOBSERVABLE INPUTS | NET ASSET VALUE | NOT LEVELED |
| | | (Level 1) | (Level 2) | (Level 3) | (NAV) | |
| Equity securities | \$300,989 | \$292,600 | \$12 | \$8,367 | \$10 | |
| Fixed- or variable-income securities: | | | | | | |
| U.S. government-guaranteed | 357,522 | | 357,522 | | | |
| Other U.S. dollar-denominated | 67,954 | 652 | 67,248 | 54 | | |
| Foreign currency-denominated | 1,430 | | 1,430 | | | |
| Commingled funds | 8,849,013 | 681,676 | 533 | 11,275 | 8,115,624 | \$39,905 |
| Investment derivatives | (388) | | (388) | | | |
| Real estate | 143,713 | | 1,260 | 53,600 | 88,853 | |
| Other investments | 258,156 | 9,178 | | 2,911 | 243,368 | 2,699 |
| Total investments | \$9,978,389 | \$984,106 | \$427,617 | \$76,207 | \$8,447,855 | \$42,604 |
| Securities lending investments of cash collateral | \$36,384 | | \$36,415 | | | (\$31) |
| Beneficial interests included in other noncurrent assets | \$81,333 | | | \$81,333 | | |

(in thousands of dollars)

| | UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM | | | | | |
|--|--|---------------------------------------|-------------------------------|------------------------|---------------------|------------------|
| | TOTAL | QUOTED PRICES IN ACTIVE MARKETS | OTHER OBSERVABLE INPUTS | UNOBSERVABLE INPUTS | NET ASSET VALUE | NOT LEVELED |
| | | (Level 1) | (Level 2) | (Level 3) | (NAV) | |
| Equity securities | \$39,608,395 | \$39,608,350 | | \$45 | | |
| Fixed- or variable-income securities: | | | | | | |
| U.S. government-guaranteed | 6,654,026 | | \$6,654,026 | | | |
| Other U.S. dollar-denominated | 15,977,772 | | 15,977,772 | | | |
| Foreign currency-denominated | 536 | | 536 | | | |
| Commingled funds | 29,292,865 | 3,439,009 | | 280,282 | \$24,918,337 | \$655,237 |
| Investment derivatives | 6,485 | 1,011 | 5,474 | | | |
| Publicly traded real estate investment trusts | 2,092,822 | 2,092,822 | | | | |
| Real estate | 1,823,802 | | | | 1,823,802 | |
| Total investments | \$95,456,703 | \$45,141,192 | \$22,637,808 | \$280,327 | \$26,742,139 | \$655,237 |
| Securities lending investments of cash collateral | \$6,128,526 | | \$6,133,689 | | | (\$5,163) |

The following tables summarize the investments and other assets reported at fair value within the fair value hierarchy as of June 30, 2018:

(in thousands of dollars)

| | UNIVERSITY OF CALIFORNIA | | | | | |
|---|--------------------------|---------------------------------------|-------------------------------|------------------------|--------------------|----------------------|
| | TOTAL | QUOTED PRICES IN ACTIVE MARKETS | OTHER OBSERVABLE INPUTS | UNOBSERVABLE INPUTS | NET ASSET VALUE | NOT LEVELED |
| | | (Level 1) | (Level 2) | (Level 3) | (NAV) | |
| Equity securities | \$5,557,176 | \$5,551,780 | | \$5,396 | | |
| Fixed- or variable-income securities: | | | | | | |
| U.S. government-guaranteed | 3,399,570 | 57,592 | \$3,341,978 | | | |
| Other U.S. dollar-denominated | 12,790,802 | 217,954 | 12,483,517 | 89,331 | | |
| Foreign currency-denominated | 113 | | 113 | | | |
| Commingled funds | 10,171,169 | 796,878 | 62,531 | 72,717 | \$9,205,816 | \$33,227 |
| Investment derivatives | (5,520) | 234 | (5,754) | | | |
| Publicly traded real estate investment trusts | 224,036 | 224,036 | | | | |
| Mortgage loans | 510,765 | | | 510,765 | | |
| Real estate | 428,590 | | | 25,562 | 403,028 | |
| Other investments | 27,701 | 13,750 | | 13,951 | | |
| Campus foundations' investments with the University | (2,611,651) | | | | | (2,611,651) |
| UCRS investment in STIP | (3,123,754) | | | | | (3,123,754) |
| Total investments | \$27,368,997 | \$6,862,224 | \$15,882,385 | \$717,722 | \$9,608,844 | (\$5,702,178) |
| Securities lending investments of cash collateral | \$1,164,707 | | \$1,164,958 | | | (\$251) |
| Investments held by trustees | \$415,164 | | | | \$382,162 | \$33,002 |
| Beneficial interests included in other noncurrent assets | \$55,440 | | | \$55,440 | | |

| <i>(in thousands of dollars)</i> | CAMPUS FOUNDATIONS | | | | | |
|---|--------------------|---------------------------------------|-------------------------------|------------------------|--------------------|-----------------|
| | TOTAL | QUOTED PRICES IN ACTIVE MARKETS | OTHER OBSERVABLE INPUTS | UNOBSERVABLE INPUTS | NET ASSET VALUE | NOT LEVELED |
| | | (Level 1) | (Level 2) | (Level 3) | (NAV) | |
| Equity securities | \$281,594 | \$266,168 | \$5,147 | \$10,265 | \$14 | |
| Fixed- or variable-income securities: | | | | | | |
| U.S. government-guaranteed | 386,667 | | 386,667 | | | |
| Other U.S. dollar-denominated | 130,192 | 666 | 129,472 | 54 | | |
| Commingled funds | 8,069,041 | 692,240 | 351 | 1,511 | 7,352,650 | \$22,289 |
| Investment derivatives | (355) | | (355) | | | |
| Real estate | 135,731 | | 3,709 | 54,224 | 77,798 | |
| Other investments | 236,710 | 5,161 | | 38,202 | 191,959 | 1,388 |
| Total investments | \$9,239,580 | \$964,235 | \$524,991 | \$104,256 | \$7,622,421 | \$23,677 |
| Securities lending investments of cash collateral | \$45,288 | | \$45,297 | | | (\$9) |
| Beneficial interests included in other noncurrent assets | \$75,132 | | | \$75,132 | | |

| <i>(in thousands of dollars)</i> | UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM | | | | | |
|--|--|---------------------------------------|-------------------------------|------------------------|---------------------|--------------------|
| | TOTAL | QUOTED PRICES IN ACTIVE MARKETS | OTHER OBSERVABLE INPUTS | UNOBSERVABLE INPUTS | NET ASSET VALUE | NOT LEVELED |
| | | (Level 1) | (Level 2) | (Level 3) | (NAV) | |
| Equity securities | \$33,324,912 | \$32,764,711 | | \$1,282 | \$558,919 | |
| Fixed- or variable-income securities: | | | | | | |
| U.S. government-guaranteed | 5,881,270 | | \$5,881,270 | | | |
| Other U.S. dollar-denominated | 18,110,994 | 365,653 | 17,745,294 | 47 | | |
| Foreign currency-denominated | 576 | | 576 | | | |
| Commingled funds | 30,197,232 | 5,064,965 | 2,115 | | 25,461,548 | (\$331,396) |
| Investment derivatives | (19,142) | 1,516 | (20,658) | | | |
| Publicly traded real estate investment trusts | 1,711,685 | 1,711,685 | | | | |
| Real estate | 1,665,191 | | | | 1,665,191 | |
| Total investments | \$90,872,718 | \$39,908,530 | \$23,608,597 | \$1,329 | \$27,685,658 | (\$331,396) |
| Securities lending investments of cash collateral | \$6,158,290 | | \$6,159,570 | | | (\$1,280) |

The following table presents significant terms of certain investments at June 30, 2019:

| <i>(in thousands of dollars)</i> | | | | |
|---|-------------------|-----------------------------|-------------------------------|--|
| UNIVERSITY OF CALIFORNIA | | | | |
| INVESTMENT TYPE | FAIR VALUE | UNFUNDED COMMITMENTS | REMAINING LIFE (YEARS) | REDEMPTION TERMS AND RESTRICTIONS |
| Absolute return | \$4,313,573 | \$308,271 | 0 to 5 | Not eligible for redemption and lock-up provisions ranging from 0 to 3 years. For securities not eligible for redemptions the underlying assets are estimated to be liquidated within 3 to 5 years. For securities eligible for redemptions, after initial lock-up expires, redemptions are available on a rolling basis and require 30 to 365 days' prior notification. |
| Private equity | 2,554,119 | 1,693,703 | 0 to 15 | Not eligible for redemption. |
| Real assets | 627,023 | 567,390 | 0 to 15 | Not eligible for redemption. |
| Real estate and real estate investment trusts | 1,240,004 | 554,930 | 0 to 10 | Closed end funds are not eligible for redemption. For open end funds, redemptions are generally on a quarterly basis where the redemption date is the last day of each quarter. Payments of withdrawal requests are generally made within 45 days. |
| U.S. equity funds | 74,076 | | | Redemptions generally require at least 0-90 days written notice of intention to terminate as of a date specified in the notice. Payments of withdrawal requests are generally made within 0-120 days. |
| Balanced funds | 243,152 | | | Redemptions require at least twelve months prior written notice of intention to terminate as of a date specified in the notice. Withdrawals will occur on the last business day of the month and are subject to certain withdrawal guidelines. |

| <i>(in thousands of dollars)</i> | | | | |
|---|-------------------|-----------------------------|-------------------------------|--|
| CAMPUS FOUNDATIONS | | | | |
| INVESTMENT TYPE | FAIR VALUE | UNFUNDED COMMITMENTS | REMAINING LIFE (YEARS) | REDEMPTION TERMS AND RESTRICTIONS |
| Absolute return | \$2,531,318 | \$115,585 | 0 to 3 | Generally, lock-up provisions ranging from 0 to 3 years. After initial lock-up expires, redemptions are available require 30 to 180 days' prior notification. |
| Private equities | 1,132,506 | 780,895 | 0 to 16 | Generally, lock-up provisions ranging from 0 to 16 years. After initial lock-up expires, redemptions are available require 30 to 180 days' prior notification. |
| Other investments | 258,156 | 120,433 | 9 | Not eligible for redemption. |
| Real estate and real estate investment trusts | 318,687 | 108,721 | 0 to 14 | Not eligible for redemption. |
| U.S. equity and Non-U.S. equity funds | 2,047,673 | 18,000 | 0 to 4 | Generally, lock-up provisions ranging from 0 to 4 years. After initial lock-up expires, redemptions are available require 0 to 365 days' prior notification. |

| <i>(in thousands of dollars)</i> | | | | |
|---|-------------------|-----------------------------|-------------------------------|--|
| UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM | | | | |
| INVESTMENT TYPE | FAIR VALUE | UNFUNDED COMMITMENTS | REMAINING LIFE (YEARS) | REDEMPTION TERMS AND RESTRICTIONS |
| Absolute return | \$4,716,290 | \$289,483 | 0 to 5 | Not eligible for redemption and lock-up provisions ranging from 0 to 3 years. For securities not eligible for redemptions the underlying assets are estimated to be liquidated within 3 to 5 years. For securities eligible for redemptions, after initial lock-up expires, redemptions are available on a rolling basis and require 30 to 365 days' prior notification. |
| Private equity | 4,458,873 | 3,742,167 | 0 to 15 | Not eligible for redemption. |
| Real assets | 1,530,725 | 923,447 | 0 to 15 | Not eligible for redemption. |
| U.S. equity funds | 1,137,570 | | | Redemptions generally require at least 0-90 days written notice of intention to terminate as of a date specified in the notice. Payments of withdrawal requests are generally made within 0-120 days. |
| Real estate and real estate investment trusts | 4,278,585 | 1,034,982 | 0 to 10 | Closed end funds are not eligible for redemption. For open end funds, redemptions are generally on a quarterly basis where the redemption date is the last day of each quarter. Payments of withdrawal requests are generally made within 45 days. |

6. INVESTMENTS HELD BY TRUSTEES

The University has entered into agreements with trustees to maintain trusts for the University's insurance programs, long-term debt requirements, capital projects and certain other requirements. In addition, the state of California retained on deposit certain proceeds from the sale of lease-revenue bonds to be used for capital projects.

Insurance Programs

Investments held by trustees for insurance programs include bank accounts for the voluntary benefits, workers' compensation, general liability and professional medical and hospital liability programs. Cash held by the trustee in the name of the University totaled \$26.3 million and \$10.9 million at June 30, 2019 and 2018, respectively.

Long-Term Debt

Investments held by trustees for future payment of principal and interest in accordance with various indenture and other long-term debt requirements totaled \$302.5 million and \$12.9 million at June 30, 2019 and 2018, respectively. In 2019, investments held by trustees included \$286.5 million to retire General Revenue Bonds maturing on July 1, 2019. Securities held by trustees are held in the name of the University and these trust agreements permit trustees to invest in U.S. and state government or agency obligations, commercial paper or other corporate obligations meeting certain credit rating requirements.

Capital Projects

Proceeds from the sale of the state of California's lease revenue bonds to be used for financing certain University capital projects were deposited in a commingled U.S. bond fund managed by the state of California Treasurer's Office, as trustee, and distributed to the University as the projects are constructed. The fair value of these deposits was \$2.7 million and \$2.6 million at June 30, 2019 and 2018, respectively.

In addition, proceeds from the sale of bonds for the design and construction of third-party blended component unit housing facilities are held by trustees. The fair value of these investments was \$909.8 million and \$385.7 million at June 30, 2019 and 2018, respectively. Substantially all of these investments are of a highly liquid, short-term nature.

7. ACCOUNTS RECEIVABLE

Accounts receivable and the allowance for uncollectible accounts are as follows:

(in thousands of dollars)

| | UNIVERSITY OF CALIFORNIA | | | | | | | UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS |
|---|------------------------------------|--------------------|----------------------|------------------------------------|---------------------------------|--------------------|--------------------|---|
| | STATE AND FEDERAL GOVERNMENT | MEDICAL CENTERS | INVESTMENT INCOME | PRIVATE GRANTS AND CONTRACTS | MEDICAL PROFESSIONAL FEES | OTHER | TOTAL | |
| <i>At June 30, 2019</i> | | | | | | | | |
| Accounts receivable | \$783,064 | \$2,445,017 | \$76,716 | \$494,767 | \$536,212 | \$1,600,789 | \$5,936,565 | \$37,496 |
| Allowance for uncollectible accounts | (7,695) | (304,538) | | (24,692) | (157,343) | (35,617) | (529,885) | |
| Accounts receivable, net | \$775,369 | \$2,140,479 | \$76,716 | \$470,075 | \$378,869 | \$1,565,172 | \$5,406,680 | \$37,496 |
| <i>At June 30, 2018</i> | | | | | | | | |
| Accounts receivable | \$730,025 | \$2,239,409 | \$66,905 | \$438,819 | \$413,682 | \$640,109 | \$4,528,949 | \$13,102 |
| Allowance for uncollectible accounts | (6,382) | (265,029) | | (23,359) | (140,118) | (32,173) | (467,061) | |
| Accounts receivable, net | \$723,643 | \$1,974,380 | \$66,905 | \$415,460 | \$273,564 | \$607,936 | \$4,061,888 | \$13,102 |

The University's other accounts receivable are primarily related to investment sales, tuition and fees, auxiliary enterprises, insurance rebates and legal settlements.

The campus foundations' accounts receivable are primarily related to investment income.

Uncollectible accounts have decreased the following revenues for the years ended June 30:

(in thousands of dollars)

| | UNIVERSITY OF CALIFORNIA | |
|---|--------------------------|--------------------|
| | 2019 | 2018 |
| Student tuition and fees | (\$4,475) | (\$1,002) |
| <i>Grants and contracts:</i> | | |
| Federal | (570) | (4,656) |
| State | (1,095) | (778) |
| Private | (1,280) | 73 |
| Local | (63) | (40) |
| Medical centers | (230,357) | (255,445) |
| Educational activities | (11,524) | (9,994) |
| Auxiliary enterprises | (1,159) | 101 |
| Other operating revenues | (2,315) | (2,041) |
| Expense for uncollectible accounts | (\$252,838) | (\$273,782) |

Retirement System Contribution

The state of California agreed to make contributions related to certain prior years to the University for UCRP in annual installments over 30 years. During each of the years ended June 30, 2019 and 2018, under the terms of these agreements, the state of California contributed \$5.3 million, including interest at 8.5 percent. At June 30, 2019 and 2018, the remaining amount owed to UCRP by the state was \$4.9 million and \$9.4 million, respectively. These amounts are recorded in the University's statement of net position as a receivable from the state of California and as a liability owed to UCRP.

8. PLEDGES RECEIVABLE

The composition of pledges receivable at June 30 is summarized as follows:

(in thousands of dollars)

| | UNIVERSITY OF CALIFORNIA | | UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS | |
|---|--------------------------|-----------------|--|------------------|
| | 2019 | 2018 | 2019 | 2018 |
| Total pledges receivable outstanding | \$72,286 | \$67,676 | \$1,090,878 | \$1,208,349 |
| Unamortized discount to present value | (1,522) | (632) | (137,971) | (136,882) |
| Allowance for uncollectible pledges | (12,689) | (9,305) | (64,915) | (65,284) |
| Total pledges receivable, net | 58,075 | 57,739 | 887,992 | 1,006,183 |
| Current portion of pledges receivable | (28,039) | (25,049) | (201,299) | (234,294) |
| Noncurrent portion of pledges receivable | \$30,036 | \$32,690 | \$686,693 | \$771,889 |

Future receipts under pledge agreements for each of the five fiscal years subsequent to June 30, 2019 and thereafter are as follows:

(in thousands of dollars)

| Year Ending June 30 | UNIVERSITY OF CALIFORNIA | UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS |
|---|--------------------------|--|
| | 2020 | \$38,296 |
| 2021 | 11,852 | 187,785 |
| 2022 | 9,338 | 81,934 |
| 2023 | 7,386 | 79,234 |
| 2024 | 3,899 | 71,522 |
| 2025-2029 | 765 | 192,993 |
| Beyond 2029 | 750 | 249,420 |
| Total payments on pledges receivable | \$72,286 | \$1,090,878 |

Adjustments to the allowance for uncollectible pledges for the University have increased (decreased) the following revenues for the years ended June 30, 2019 and 2018:

(in thousands of dollars)

| | 2019 | 2018 |
|---------------|---------|-----------|
| Private gifts | \$3,744 | (\$4,096) |

9. NOTES AND MORTGAGES RECEIVABLE

Notes and mortgages receivable at June 30, 2019 and 2018 along with the allowance for uncollectible amounts, are as follows:

(in thousands of dollars)

| | UNIVERSITY OF CALIFORNIA | | | | UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS | | |
|--|--------------------------|------------------|-----------------|------------------|--|--------------|--------------|
| | CURRENT | NONCURRENT | | TOTAL | CURRENT | NONCURRENT | TOTAL |
| | | NOTES | MORTGAGES | | | | |
| <i>At June 30, 2019</i> | | | | | | | |
| Notes and mortgages receivable | \$74,417 | \$376,216 | \$21,838 | \$398,054 | | \$250 | \$250 |
| Allowance for uncollectible amounts | (8,060) | (17,923) | (150) | (18,073) | | | |
| Notes and mortgages receivable, net | \$66,357 | \$358,293 | \$21,688 | \$379,981 | | \$250 | \$250 |
| <i>At June 30, 2018</i> | | | | | | | |
| Notes and mortgages receivable | \$77,411 | \$387,236 | \$19,105 | \$406,341 | \$181 | \$250 | \$431 |
| Allowance for uncollectible amounts | (8,929) | (19,885) | (114) | (19,999) | | | |
| Notes and mortgages receivable, net | \$68,482 | \$367,351 | \$18,991 | \$386,342 | \$181 | \$250 | \$431 |

10. DOE NATIONAL LABORATORY CONTRACTS

Los Alamos National Laboratory

The University is a member of Triad with two other organizations. Effective November 1, 2018, Triad assumed the management and operations of LANL under a contract with the DOE. While the University has an equal membership interest in Triad, the University's distributable management and operation fee is 42.7 percent of Triad. For the year ended June 30, 2019, the University recorded fees of \$7.2 million as part of other operating revenue.

LANS operated and managed the DOE's LANL prior to November 1, 2018. LANS' current earnings or losses were dependent on the percentage of base and incentive fees earned under the terms of the contract, offset by any unallowable or disallowed costs. While the University has a 50-percent membership interest in LANS, its equity in the current earnings or losses is subject to certain limitations and special allocations of both the fees and costs. As a result, the University's equity in the current earnings or losses may range from 17.0 to 50.0 percent. For the years ended June 30, 2019 and 2018, the University recorded \$2.9 million and \$14.4 million, respectively, as its equity in the current earnings of LANS and received \$1.5 million and \$16.7 million, respectively, in cash distributions.

Lawrence Livermore National Laboratory

LLNS manages and operates the DOE's LLNL. LLNS' current earnings or losses are dependent on the percentage of base and incentive fees earned under the terms of the contract, offset by any unallowable or disallowed costs. While the University has a 50-percent membership interest in LLNS, its equity in the current earnings or losses is 36.3 percent as of June 30, 2019 and 2018, respectively. For the years ended June 30, 2019 and 2018, the University recorded \$14.5 million and \$12.2 million, respectively, as its equity in the current earnings of LLNS and received \$14.3 million and \$12.2 million, respectively, in cash distributions.

11. CAPITAL ASSETS

The University's capital asset activity for the years ended June 30 is as follows:

(in thousands of dollars)

| | 2017 | ADDITIONS | DISPOSALS | 2018 | ADDITIONS | DISPOSALS | 2019 |
|--|---------------------|-------------------------------|--------------------|---------------------|-------------------------------|--------------------|---------------------|
| ORIGINAL COST | | | | | | | |
| Land | \$1,162,911 | \$45,985 | (\$17,768) | \$1,191,128 | \$92,360 | (\$900) | \$1,282,588 |
| Infrastructure | 694,860 | 49,827 | (6,687) | 738,000 | 112,103 | | 850,103 |
| Buildings and improvements | 38,025,323 | 1,823,695 | (26,959) | 39,822,059 | 1,660,663 | (40,640) | 41,442,082 |
| Equipment, software and intangibles | 7,609,083 | 1,157,142 | (256,657) | 8,509,568 | 764,842 | (251,284) | 9,023,126 |
| Libraries and collections | 4,152,688 | 147,676 | (24,460) | 4,275,904 | 154,839 | (32,683) | 4,398,060 |
| Special collections | 459,956 | 71,303 | (103) | 531,156 | 14,739 | (631) | 545,264 |
| Construction in progress | 2,520,150 | 411,104 | | 2,931,254 | 1,263,084 | | 4,194,338 |
| Capital assets, at original cost | \$54,624,971 | \$3,706,732 | (\$332,634) | \$57,999,069 | \$4,062,630 | (\$326,138) | \$61,735,561 |
| | 2017 | DEPRECIATION AND AMORTIZATION | DISPOSALS | 2018 | DEPRECIATION AND AMORTIZATION | DISPOSALS | 2019 |
| ACCUMULATED DEPRECIATION AND AMORTIZATION | | | | | | | |
| Infrastructure | \$371,698 | \$23,774 | (\$4,431) | \$391,041 | \$27,477 | (\$7) | \$418,511 |
| Buildings and improvements | 15,318,861 | 1,212,499 | (26,609) | 16,504,751 | 1,255,205 | (21,312) | 17,738,644 |
| Equipment, software and intangibles | 5,164,786 | 658,487 | (223,448) | 5,599,825 | 682,521 | (226,691) | 6,055,655 |
| Libraries and collections | 3,099,873 | 132,583 | (54,111) | 3,178,345 | 135,025 | (20,092) | 3,293,278 |
| Accumulated depreciation and amortization | 23,955,218 | \$2,027,343 | (\$308,599) | 25,673,962 | \$2,100,228 | (\$268,102) | 27,506,088 |
| Capital assets, net | \$30,669,753 | | | \$32,325,107 | | | \$34,229,473 |

Service concession arrangements, reported as buildings and improvements, are \$278.7 million of original cost and \$30.7 million of accumulated depreciation at June 30, 2019. Service concession arrangements, reported as buildings and improvements, are \$202.1 million of original cost and \$25.6 million of accumulated depreciation at June 30, 2018.

12. SELF-INSURANCE, OBLIGATIONS UNDER LIFE INCOME AGREEMENTS AND OTHER LIABILITIES

The University's self-insurance, obligations under life income agreements and other liabilities at June 30, 2019 and 2018 are as follows:

(in thousands of dollars)

| | UNIVERSITY OF CALIFORNIA | | | | UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS | | | |
|--|--------------------------|------------------|--------------------|------------------|---|------------------|-----------------|------------------|
| | 2019 | | 2018 | | 2019 | | 2018 | |
| | CURRENT | NONCURRENT | CURRENT | NONCURRENT | CURRENT | NONCURRENT | CURRENT | NONCURRENT |
| Self-insurance programs | \$388,880 | \$715,417 | \$392,634 | \$584,186 | | | | |
| Obligations under life income agreements | 1,501 | \$35,118 | 1,474 | \$35,293 | \$18,054 | \$150,069 | \$19,314 | \$149,391 |
| Other liabilities: | | | | | | | | |
| Compensated absences | 670,767 | 345,620 | 614,056 | 315,659 | | | | |
| UCRP* | 4,891 | | 4,509 | 4,891 | | | | |
| Accrued interest | 138,338 | | 121,812 | | | | | |
| Fair value of interest rate swaps | | 130,161 | | 54,839 | | | | |
| Third-party payor settlements | 555,023 | | 497,751 | | | | | |
| Deposits | 153,516 | | 152,591 | | | | | |
| Other | 104,177 | 262,859 | 113,377 | 194,007 | 28,350 | 278,076 | 24,866 | 271,825 |
| Total | \$2,017,093 | \$738,640 | \$1,898,204 | \$569,396 | \$46,404 | \$278,076 | \$44,180 | \$271,825 |

* UCRP has an equivalent amount recorded as a contribution receivable from the University in its statement of fiduciary net position.

Self-Insurance Programs

Self-insured liabilities changed as follows for the years ended June 30:

(in thousands of dollars)

| | MEDICAL MALPRACTICE | WORKERS' COMPENSATION | EMPLOYEE & STUDENT HEALTH CARE | GENERAL LIABILITY AND OTHER | TOTAL |
|--|------------------------|--------------------------|--------------------------------------|-----------------------------------|--------------------|
| <i>Year Ended June 30, 2019</i> | | | | | |
| Liabilities at June 30, 2018 | \$215,307 | \$455,963 | \$114,800 | \$190,750 | \$976,820 |
| Claims incurred and changes in estimates | 52,574 | 89,647 | 1,219,818 | 117,048 | 1,479,087 |
| Claim payments | (45,253) | (80,946) | (1,179,587) | (45,824) | (1,351,610) |
| Liabilities at June 30, 2019 | \$222,628 | \$464,664 | \$155,031 | \$261,974 | \$1,104,297 |
| Discount rate | 3.0% | 3.0% | Undiscounted | 3.0% | |
| <i>Year Ended June 30, 2018</i> | | | | | |
| Liabilities at June 30, 2017 | \$193,155 | \$409,007 | \$90,178 | \$168,372 | \$860,712 |
| Claims incurred and changes in estimates | 75,112 | 129,808 | 973,303 | 63,290 | 1,241,513 |
| Claim payments | (52,960) | (82,852) | (948,681) | (40,912) | (1,125,405) |
| Liabilities at June 30, 2018 | \$215,307 | \$455,963 | \$114,800 | \$190,750 | \$976,820 |
| Discount rate | 2.6% to 4.7% | 2.6% to 4.7% | Undiscounted | 2.6% to 4.7% | |
| <i>Year Ended June 30, 2017</i> | | | | | |
| Liabilities at June 30, 2016 | \$198,440 | \$391,440 | \$88,510 | \$108,519 | \$786,909 |
| Claims incurred and changes in estimates | 51,074 | 104,089 | 811,137 | 99,538 | 1,065,838 |
| Claim payments | (56,359) | (86,522) | (809,469) | (39,685) | (992,035) |
| Liabilities at June 30, 2017 | \$193,155 | \$409,007 | \$90,178 | \$168,372 | \$860,712 |
| Discount rate | 5.0% | 5.0% | Undiscounted | 2.0% | |

Obligations Under Life Income Agreements

Changes in current and noncurrent obligations under life income agreements for the years ended June 30 are as follows:

(in thousands of dollars)

| | UNIVERSITY OF CALIFORNIA | | UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS | |
|--|--------------------------|--------------------|--|--------------------|
| | ANNUITIES | LIFE BENEFICIARIES | ANNUITIES | LIFE BENEFICIARIES |
| <i>Year Ended June 30, 2019</i> | | | | |
| Balance at June 30, 2018 | \$17,909 | \$18,858 | \$64,862 | \$103,843 |
| New obligations to beneficiaries and changes in liability, net | 2,175 | 1,250 | 8,594 | 8,483 |
| Payments to beneficiaries | (2,432) | (1,141) | (7,230) | (10,429) |
| Obligations under life income agreements at June 30, 2019 | 17,652 | 18,967 | 66,226 | 101,897 |
| Less: Current portion | (844) | (657) | (7,428) | (10,626) |
| Noncurrent portion at June 30, 2019 | \$16,808 | \$18,310 | \$58,798 | \$91,271 |
| <i>Year Ended June 30, 2018</i> | | | | |
| Balance at June 30, 2017 | \$16,735 | \$19,345 | \$50,843 | \$104,298 |
| New obligations to beneficiaries and changes in liability, net | 3,577 | 778 | 19,971 | 9,287 |
| Payments to beneficiaries | (2,403) | (1,265) | (5,952) | (9,742) |
| Obligations under life income agreements at June 30, 2018 | 17,909 | 18,858 | 64,862 | 103,843 |
| Less: Current portion | (825) | (649) | (7,436) | (11,878) |
| Noncurrent portion at June 30, 2018 | \$17,084 | \$18,209 | \$57,426 | \$91,965 |

13. DEBT

The University directly finances the construction, renovation and acquisition of facilities and equipment, or for such other purposes as are authorized by The Regents through the issuance of debt obligations or indirectly through structures that involve legally separate entities reported as blended component units. Commercial paper and bank loans provide interim financing. Long-term financing includes revenue bonds, financing obligations and other borrowings.

The University's outstanding debt at June 30 is as follows:

(in thousands of dollars)

| | WEIGHTED AVERAGE INTEREST RATE | INTEREST RATE RANGE | MATURITY YEARS | 2019 | 2018 |
|--|--------------------------------------|------------------------|-------------------|---------------------|---------------------|
| INTERIM FINANCING: | | | | | |
| Commercial paper | | 1.23 - 2.63% | 2019 - 2020 | \$574,483 | \$781,804 |
| LONG-TERM FINANCING: | | | | | |
| <i>University of California General Revenue Bonds:</i> | | | | | |
| Fixed rate | 4.7% | 1.4 - 7.6% | 2019 - 2115 | 11,613,425 | 11,192,530 |
| Variable rate | 1.7% | 1.5 - 2.4% | 2037 - 2048 | 750,000 | 750,000 |
| University of California Limited Project Revenue Bonds | 4.8% | 1.5 - 6.3% | 2020 - 2058 | 4,922,720 | 5,019,785 |
| <i>University of California Medical Center Pooled Revenue Bonds:</i> | | | | | |
| Fixed rate | 5.6% | 1.4 - 6.6% | 2020 - 2049 | 2,462,125 | 2,501,820 |
| Variable rate | 2.1% | 1.4 - 2.5% | 2020 - 2047 | 240,810 | 244,400 |
| Unamortized bond premium | | | | 1,297,554 | 1,368,889 |
| University of California revenue bonds | 4.7% | | | 21,286,634 | 21,077,424 |
| Financing obligations | | 0.5 - 11.8% | 2020 - 2042 | 188,140 | 207,118 |
| Other University borrowings | | Various | 2020 - 2055 | 801,046 | 556,513 |
| Blended component unit revenue bonds, net | 5.1% | 4.0 - 6.5% | 2020 - 2052 | 1,733,839 | 1,035,918 |
| Total outstanding debt | | | | 24,584,142 | 23,658,777 |
| Less: Commercial paper | | | | (574,483) | (781,804) |
| Current portion of outstanding debt | | | | (1,696,499) | (1,371,030) |
| Noncurrent portion of outstanding debt | | | | \$22,313,160 | \$21,505,943 |

Interest expense associated with financing projects during construction, net of any investment income earned on tax-exempt bond proceeds during construction, is capitalized. Total interest expense during the years ended June 30, 2019 and 2018 was \$880.5 million and \$821.2 million, respectively. Interest expense, net of investment income, totaling \$113.1 million and \$74.6 million was capitalized during the years ended June 30, 2019 and 2018, respectively. The remaining \$767.4 million and \$746.6 million in 2019 and 2018 is reported as interest expense in the statement of revenues, expenses and changes in net position.

Outstanding Debt Activity

The activity with respect to the University's current and noncurrent debt, including the revenue bonds associated with blended component units, for the years ended June 30 is as follows:

(in thousands of dollars)

| | UNIVERSITY REVENUE BONDS | FINANCING OBLIGATIONS | OTHER UNIVERSITY BORROWINGS | BLENDED COMPONENT UNIT REVENUE BONDS | TOTAL |
|--|-----------------------------|--------------------------|-----------------------------------|--|---------------------|
| <i>Year Ended June 30, 2019</i> | | | | | |
| Long-term debt and financing obligations at June 30, 2018 | \$21,077,424 | \$207,118 | \$556,513 | \$1,035,918 | \$22,876,973 |
| New obligations | 653,060 | 16,327 | 259,810 | 662,465 | 1,591,662 |
| Bond premium, net | 22,242 | | | 54,670 | 76,912 |
| Scheduled principal payments | (372,515) | (35,305) | (15,277) | (11,280) | (434,377) |
| Amortization of bond premium | (93,577) | | | (7,934) | (101,511) |
| Long-term debt and financing obligations at June 30, 2019 | 21,286,634 | 188,140 | 801,046 | 1,733,839 | 24,009,659 |
| Less: Current portion | (1,620,253) | (42,337) | (12,820) | (21,089) | (1,696,499) |
| Noncurrent portion at June 30, 2019 | \$19,666,381 | \$145,803 | \$788,226 | \$1,712,750 | \$22,313,160 |
| <i>Year Ended June 30, 2018</i> | | | | | |
| Long-term debt and financing obligations at June 30, 2017 | \$18,443,955 | \$195,022 | \$378,659 | \$672,567 | \$19,690,203 |
| New obligations | 3,544,885 | 47,225 | 284,583 | 319,530 | 4,196,223 |
| Bond premium, net | 430,715 | | | 63,217 | 493,932 |
| Refinancing or prepayment of outstanding debt | (913,690) | | (100,049) | | (1,013,739) |
| Scheduled principal payments | (346,150) | (35,129) | (6,680) | (10,750) | (398,709) |
| Amortization of bond premium | (82,291) | | | (8,646) | (90,937) |
| Long-term debt and financing obligations at June 30, 2018 | 21,077,424 | 207,118 | 556,513 | 1,035,918 | 22,876,973 |
| Less: Current portion | (1,308,152) | (38,581) | (6,326) | (17,971) | (1,371,030) |
| Noncurrent portion at June 30, 2018 | \$19,769,272 | \$168,537 | \$550,187 | \$1,017,947 | \$21,505,943 |

Commercial Paper

The University has available a \$2.0 billion commercial paper program, issued in two series, with tax-exempt and taxable components. Commercial paper may be issued for interim financing for capital projects, interim financing of equipment, financing of working capital for the medical centers, standby or interim financing for gift financed projects and working capital for the University.

The program's liquidity is primarily supported by available investments in STIP and TRIP. Commercial paper is collateralized by a pledge of the revenues derived from the ownership or operation of the projects financed and constitute limited obligations of the University. There is no encumbrance, mortgage or other pledge of property securing commercial paper and the paper does not constitute general obligations of the University.

Commercial paper outstanding, including interest rates, at June 30 is as follows:

(in thousands of dollars)

| | 2019 | | 2018 | |
|--------------------------|----------------|------------------|----------------|------------------|
| | INTEREST RATES | OUTSTANDING | INTEREST RATES | OUTSTANDING |
| Tax-exempt | 1.23 - 1.80% | \$313,066 | 1.10 - 1.71% | \$457,000 |
| Taxable | 2.38 - 2.63% | 261,417 | 1.88 - 2.30% | 324,804 |
| Total outstanding | | \$574,483 | | \$781,804 |

The expectation is that the University will continue to utilize available investments for liquidity support of the commercial paper program. Alternatively, the University may utilize lines of credit from external banks for the purpose of providing additional liquidity support for the commercial paper program. As of June 30, 2019, the University has two revolving credit agreements totaling \$700.0 million. There were no borrowings against the revolving credit lines as of June 30, 2019.

University of California Revenue Bonds

Revenue bonds have financed various auxiliary, administrative, academic, medical center and research facilities of the University. The bonds generally have annual principal and semiannual or monthly interest payments, serial and term maturities, contain sinking fund requirements and may have optional redemption provisions. Revenue bonds are not collateralized by any encumbrance, mortgage or other pledge of property, except pledged revenues, and do not constitute general obligations of The Regents. Revenue Bond Indentures require the University to use the facilities in a way which will not cause the interest on the tax-exempt bonds to be included in the gross income of the bondholders for federal tax purposes. The Indentures permit the University to issue additional bonds as long as certain conditions are met.

General Revenue Bonds are collateralized solely by General Revenues as defined in the General Revenue Bond Indenture. General Revenues are certain operating and nonoperating revenues of the University consisting of gross student tuition and fees; a portion of state appropriations; facilities and administrative cost recovery from contracts and grants; revenues from educational, auxiliary and other activities; and other revenues, including unrestricted investment income. The General Revenue Bond Indenture requires the University to set rates, charges and fees each year sufficient for General Revenues to pay for the annual principal and interest on the bonds and certain other covenants. The pledge of General Revenues for interest rate swap agreements is on a parity basis with the University's General Revenue Bonds. General Revenues for the years ended June 30, 2019 and 2018 were \$17.8 billion and \$16.8 billion, respectively.

Limited Project Revenue Bonds are issued to finance auxiliary enterprises and are collateralized by a pledge consisting of the sum of the gross revenues of the specific projects. The Limited Project Revenue Bond Indenture requires the University to achieve the sum of gross project revenues equal to 1.1 times debt service and to maintain certain other covenants. The pledge of revenues for Limited Project Revenue Bonds is subordinate to the pledge of revenues for General Revenue Bonds, but senior to pledges for commercial paper notes. Pledged revenues for the years ended June 30, 2019 and 2018 were \$1.5 billion.

Medical Center Pooled Revenue Bonds are issued to finance the University's medical center facilities and are collateralized by a joint and several pledges of the gross revenues of all five of the University's medical centers. Medical center gross revenues are excluded from General Revenues. The Medical Center Pooled Revenue Bond Indenture requires the medical centers to set rates, charges and fees each year sufficient for the Medical Centers' total operating and nonoperating revenues to pay for the annual principal and interest on the bonds and certain other covenants. The pledge of medical center revenues for interest rate swap agreements may be at parity with, or subordinate to, Medical Center Pooled Revenue Bonds. Pledged revenues of the medical centers for the years ended June 30, 2019 and 2018 were \$13.4 billion and \$12.2 billion, respectively.

2019 Activity

In March 2019, General Revenue Bonds totaling \$653.1 million, including \$114.4 million in tax-exempt bonds and \$538.7 million in taxable bonds, were issued for working capital purposes and to finance the acquisition, construction, improvement and renovation of certain facilities of the University. The bonds mature at various dates through 2049. Proceeds, including a bond premium of \$22.2 million, were used to pay for project construction and issuance costs and to repay \$286.5 million of outstanding General Revenue Bonds maturing on July 1, 2019. The tax-exempt bonds have a stated weighted average interest rate of 5.0 percent. The taxable bonds have a stated weighted average interest rate of 3.3 percent. The deferred premium will be amortized as a reduction to interest expense over the term of the bonds.

2018 Activity

In September 2017, Limited Project Revenue Bonds totaling \$860.4 million, including \$733.5 million tax-exempt bonds and \$126.9 million taxable bonds, were issued to finance the acquisition, construction, improvement and renovation of certain facilities of the University. The bonds mature at various dates through 2052. Proceeds, including a bond premium of \$124.2 million, were used to pay for project construction and issuance costs. The taxable bonds have a stated weighted average rate of 2.9 percent. The tax-exempt bonds have a stated weighted average interest rate of 4.9 percent. The deferred premium will be amortized as a reduction to interest expense over the term of the bonds.

In December 2017, General Revenue Bonds totaling \$625.5 million of tax-exempt bonds were issued to advance refund a portion of General Revenue Bonds, Limited Project Revenue Bonds and Medical Center Pooled Revenue Bonds. The bonds mature at various dates through 2041. The bonds have a stated weighted average interest rate of 4.7 percent. The bond premium of \$113.1 million will be amortized as a reduction to interest expense over the term of the bonds. The refinancing and refunding of previously outstanding bonds resulted in cash flow savings of \$74.6 million and an economic gain of \$59.3 million.

In June 2018, General Revenue Bonds totaling \$1.2 billion, including \$945.8 million in tax-exempt bonds and \$281.9 million in taxable bonds, were issued to finance or refinance the acquisition, construction, improvement and renovation of certain facilities of the

University. The bonds mature at various dates through 2058. Proceeds, including a bond premium of \$144.3 million, were used to pay for project construction and issuance costs and to refund \$112.7 million of outstanding General Revenue Bonds. The tax-exempt bonds have a stated weighted average interest rate of 4.9 percent. The taxable bonds have a stated weighted average interest rate of 4.3 percent. The deferred premium will be amortized as a reduction to interest expense over the term of the bonds. The refinancing and refunding of previously outstanding bonds resulted in cash flow savings of \$13.0 million and an economic gain of \$10.2 million.

In June 2018, Limited Project Revenue Bonds totaling \$831.3 million, including \$736.2 million tax-exempt bonds and \$95.1 million taxable bonds, were issued to finance or refinance the acquisition, construction, improvement and renovation of certain facilities of the University. The bonds mature at various dates through 2058. Proceeds, including a bond premium of \$108.5 million, were used to pay for project construction and issuance costs and to refund \$151.3 million of outstanding Limited Project Revenue Bonds. The taxable bonds have a stated weighted average rate of 3.9 percent. The tax-exempt bonds have a stated weighted average interest rate of 4.9 percent. The deferred premium will be amortized as a reduction to interest expense over the term of the bonds. The refinancing and refunding of previously outstanding bonds resulted in cash flow savings of \$17.7 million and an economic gain of \$13.7 million.

Capital Leases

Capital leases entered into with other lessors, typically for equipment, totaled \$16.3 million and \$47.2 million for the years ended June 30, 2019 and 2018, respectively.

Other University Borrowings

Other University borrowings consist of contractual obligations resulting from the acquisition of land or buildings and the construction and renovation of certain facilities, along with the borrowing component associated with a hybrid derivative instrument.

The University may use uncollateralized revolving lines of credit with commercial banks for general corporate purposes and to provide interim financing for buildings and equipment. Lines of credit commitments for general corporate purposes, with various expiration dates through May 3, 2021, totaled \$400.0 million at June 30, 2019 and \$400 million at June 30, 2018. Outstanding borrowings under these bank lines totaled \$150.0 million and \$150.0 million at June 30, 2019 and 2018, respectively.

Certain of the interest rate swaps are considered hybrid instruments. As such, the interest rate swaps are comprised of a derivative instrument and a companion instrument recorded as a borrowing. The unamortized amount of the borrowing was \$80.0 million and \$75.2 million at June 30, 2019 and 2018, respectively.

In August 2016, the University entered into an agreement with a developer to design, construct, finance, operate and maintain certain auxiliary, administrative, academic and research facilities of one of its campuses, for which the University will finance \$600.0 million of the total costs. Of this amount, \$585.0 million will be paid to the developer over a 48-month period through a series of monthly progress payments. The remainder will cover invoiced costs for infrastructure improvements and equipment. Upon completion of the design-build phase of the project, the University will enter into an ongoing Operations and Maintenance Agreement with the developer through 2055. Payments under this agreement will have two components: the first component of the agreement is related to the operations and maintenance of the facilities, the second component is to service the private debt incurred by the developer during the construction phase. The operations and maintenance component of the payment will be expensed as incurred. The payments for the private debt are being treated as capital leases and are recorded as other borrowings by the University. In the event that the operations and maintenance agreement with the developer is terminated, the outstanding portion of the private debt incurred by the developer would become an obligation of the University. The outstanding amount of the borrowing was \$539.7 million and \$296.9 million at June 30, 2019 and 2018, respectively.

As of June 30, 2019, CHRCO had no amounts outstanding under its revolving credit facility for \$25.0 million. The interest rate on the credit facility is 3.5 percent as of June 30, 2019 and the facility expires on August 31, 2020.

Blended Component Unit Revenue Bonds

Student Housing

The University has entered into ground leases with legally separate nonprofit corporations that develop and own student housing projects and related amenities and improvements on three University campuses through the use of project limited liability corporations (LLC). Each LLC, through a conduit issuer, has outstanding Student Housing LLC Revenue Bonds to finance the construction of the student housing facilities. Each LLC manages the premises. The University's reversionary interest in the land is not subordinated. All costs associated with the ownership, operation and management of the improvements are the obligation of each LLC. Student rental rates are established in order to provide for operating expenses and maintain the required debt service coverage ratios. The bonds generally have annual principal and semiannual interest payments, serial and term maturities, certain sinking fund

requirements and optional redemption provisions. They are not collateralized by any encumbrance, mortgage or other pledge of property, except pledged revenues of the student housing projects, and do not constitute general obligations of The Regents.

In August 2017, one of the LLCs, through a conduit issuer, issued additional Student Housing LLC Revenue Bonds totaling \$148.6 million. The bonds mature at various dates through 2050 and have a stated weighted average interest rate of 5.0 percent. Proceeds, including a bond premium of \$24.2 million, were used to pay for project construction and issuance costs. The deferred premium will be amortized as a reduction to interest expense over the term of the bonds.

In December 2018, two other LLCs, through a conduit issuer, issued additional Student Housing LLC Revenue Bonds totaling \$662.5 million. The bonds mature at various dates through 2052 and have a stated weighted average interest rate of 4.8 percent. Proceeds, including a bond premium of \$54.7 million, were used to pay for project construction and issuance costs. The deferred premium will be amortized as a reduction to interest expense over the term of the bonds.

At June 30, 2019 and 2018, the LLCs, through a conduit issuer, has outstanding Student Housing LLC Revenue Bonds totaling \$1.2 billion and \$501.3 million, respectively. The bonds mature at various dates through 2052 and have a weighted average interest rate of 4.9 percent.

Subsequent Events

In July 2019, one of the LLC's, through its conduit issuer, issued additional Student Housing LLC Revenue Bonds totaling \$175.1 million. The bonds mature at various dates through 2052 and have a stated weighted average interest rate of 5.0 percent. Proceeds, including a bond premium of \$35.4 million were used to pay for project construction and issuance costs. The deferred premium will be amortized as a reduction to interest expense over the term of the bonds.

Research Facilities

The University has a public/private partnership, for the purpose of developing, constructing and managing a neuroscience research and laboratory building and a psychiatry youth and family center with a legally separate, nonprofit corporation (the Corporation). In connection with these facilities, the University entered into ground leases with the Corporation. The Corporation has entered into a sub-ground lease with a developer to construct, own and manage the facilities. The University agreed to lease all of the space in the building from the developer. The University's base rent payments are equal to the principal and interest payments on the bonds are issued by a conduit issuer and loaned to the nonprofit corporation to finance the construction of the building. As security on the bonds, the developer has assigned all payments received from the University for the space lease to the bond trustee.

In December 2017, the Corporation, through a conduit issuer, issued additional revenue bonds totaling \$171.0 million. The bonds mature at various dates through 2052 and have a stated weighted average interest rate of 5.0 percent. Proceeds, including a bond premium of \$39.0 million, were used to pay for construction and issuance costs of the psychiatry youth and family center. The deferred premium will be amortized as a reduction to interest expense over the term of the bonds.

At June 30, 2019, the Corporation, through a conduit issuer, has outstanding tax-exempt revenue bonds totaling \$190.7 million and taxable revenue bonds totaling \$188.0 million. The tax-exempt revenue bonds mature at various dates from 2021 to 2052 and have a weighted average interest rate of 5.0 percent. The tax-exempt revenue bonds generally have annual serial maturities, semiannual interest payments and optional redemption provisions. The taxable bonds mature from 2026 to 2049 and have an interest rate of 6.5 percent. The taxable bonds were issued as Build America Bonds, under which the U.S. Treasury is expected to send the conduit issuer 35.0 percent of the semiannual interest cost on the taxable bonds, making the net interest rate 4.2 percent post-subsidy. The taxable bonds have a term maturity with various certain annual sinking fund requirements, semiannual interest payments and optional redemption provisions.

In addition, the University entered into a ground lease with another legally separate, nonprofit corporation (the Consortium). The Consortium entered into an agreement with a developer to develop and own a research laboratory facility designed to expand collaborative work in stem cell research and facilitate its translation into tools and techniques to diagnose and treat degenerative diseases and other ailments. The developer constructed the research laboratory facility. All costs associated with the ownership, operation and management of the laboratory research facility are the obligation of the Consortium. The University, along with the other collaborative research partners, will lease space in the building.

The Consortium, through a conduit issuer, has outstanding revenue bonds totaling \$50.7 million and \$52.0 million at June 30, 2019 and 2018, respectively. The bonds mature at various dates through 2040 and have a weighted average interest rate of 4.5 percent. The bonds generally have annual principal and semiannual interest payments, serial and term maturities, certain sinking fund requirements and optional redemption provisions. Lease payments from the occupants of the building are pledged as collateral on the bonds. To the extent the lease payments are not sufficient to pay the debt service, the University is obligated to pay the shortfall.

Future Debt Service and Hedging Derivative Interest Rate Swaps

Future debt service payments for the University's fixed- and variable-rate debt for each of the five fiscal years subsequent to June 30, 2019, and thereafter are as presented below. Although not a prediction by the University of the future interest cost of the variable-rate bonds, these amounts assume that current interest rates on variable-rate bonds will not change. As these rates vary, variable-rate bond interest payments will vary.

(in thousands of dollars)

| | COMMERCIAL PAPER | MEDICAL CENTER REVENUE BONDS | UNIVERSITY REVENUE BONDS | FINANCING OBLIGATIONS | OTHER UNIVERSITY BORROWINGS | BLENDED COMPONENT UNIT REVENUE BONDS | TOTAL PAYMENTS | PRINCIPAL | INTEREST |
|---|---------------------|------------------------------------|-----------------------------|--------------------------|-----------------------------------|---|---------------------|---------------------|---------------------|
| <i>Year Ending June 30</i> | | | | | | | | | |
| 2020 | \$577,090 | \$192,875 | \$1,395,954 | \$49,260 | \$14,102 | \$92,256 | \$2,321,537 | \$1,332,605 | \$988,932 |
| 2021 | | 202,769 | 1,334,870 | 41,560 | 170,379 | 100,139 | 1,849,717 | 880,613 | 969,104 |
| 2022 | | 201,726 | 1,113,976 | 18,532 | 20,534 | 102,253 | 1,457,021 | 511,391 | 945,630 |
| 2023 | | 201,105 | 1,111,213 | 13,844 | 20,659 | 107,002 | 1,453,823 | 528,770 | 925,053 |
| 2024 | | 195,557 | 1,138,281 | 8,670 | 19,220 | 107,830 | 1,469,558 | 565,887 | 903,671 |
| 2025 - 2029 | | 939,845 | 6,033,317 | 39,337 | 120,722 | 552,264 | 7,685,485 | 3,596,808 | 4,088,677 |
| 2030 - 2034 | | 885,745 | 5,655,527 | 35,980 | 89,505 | 555,438 | 7,222,195 | 3,976,920 | 3,245,275 |
| 2035 - 2039 | | 901,866 | 4,658,981 | 36,543 | 87,964 | 538,346 | 6,223,700 | 3,856,234 | 2,367,466 |
| 2040 - 2044 | | 945,327 | 3,485,586 | 22,290 | 87,104 | 409,499 | 4,949,806 | 3,518,066 | 1,431,740 |
| 2045 - 2049 | | 622,764 | 2,082,438 | | 84,879 | 386,218 | 3,176,299 | 2,461,062 | 715,237 |
| 2050 - 2054 | | | 618,097 | | 100,300 | 137,926 | 856,323 | 465,544 | 390,779 |
| 2055 - 2115 | | | 5,330,121 | | | | 5,330,121 | 1,442,029 | 3,888,092 |
| Total future debt service | 577,090 | 5,289,579 | 33,958,361 | 266,016 | 815,368 | 3,089,171 | 43,995,585 | \$23,135,929 | \$20,859,656 |
| Less: Interest component of future payments | (2,607) | (2,586,644) | (16,672,216) | (77,876) | (14,322) | (1,505,991) | (20,859,656) | | |
| Principal portion of future payments | 574,483 | 2,702,935 | 17,286,145 | 188,140 | 801,046 | 1,583,180 | 23,135,929 | | |
| Adjusted by: | | | | | | | | | |
| Unamortized bond premium | | 169,271 | 1,128,283 | | | 150,659 | 1,448,213 | | |
| Total debt | \$574,483 | \$2,872,206 | \$18,414,428 | \$188,140 | \$801,046 | \$1,733,839 | \$24,584,142 | | |

Long-term debt does not include \$1.6 billion of defeased liabilities at June 30, 2019. Investments that have maturities and interest rates sufficient to fund retirement of these liabilities are being held in irrevocable trusts for the debt service payments. Neither the assets of the trusts nor the outstanding obligations are included in the University's statement of net position.

General Revenue Bonds of \$750.0 million are variable-rate demand bonds which primarily reset daily and, in the event of a failed remarketing, can be put back to The Regents for tender. The University has classified these bonds as current liabilities as of June 30, 2019.

Medical Center Pooled Revenue Bonds of \$91.8 million are variable-rate demand bonds which give the debt holders the ability to tender the bonds back to the University upon demand. The University has classified these bonds as current liabilities as of June 30, 2019.

For the University's cash flow hedges, future debt service payments for the University's variable-rate debt and net receipts or payments on the associated hedging derivative instruments for each of the five fiscal years subsequent to June 30, 2019, and thereafter are as presented below. Although not a prediction by the University of the future interest cost of the variable-rate bonds or the impact of the interest rate swaps, using rates as of June 30, 2019, combined debt service requirements of the variable-rate debt and net swap payments are as follows:

(in thousands of dollars)

| | VARIABLE-RATE BONDS | | INTEREST RATE SWAP, NET | TOTAL PAYMENTS |
|----------------------------|---------------------|------------------|-------------------------|--------------------|
| | PRINCIPAL | INTEREST | | |
| <i>Year Ending June 30</i> | | | | |
| 2020 | \$3,725 | \$13,614 | \$5,754 | \$23,093 |
| 2021 | 3,860 | 13,664 | 5,679 | 23,203 |
| 2022 | 3,995 | 13,609 | 5,593 | 23,197 |
| 2023 | 7,510 | 13,555 | 5,526 | 26,591 |
| 2024 | 7,805 | 13,512 | 5,951 | 27,268 |
| 2025 - 2029 | 44,065 | 64,893 | 29,437 | 138,395 |
| 2030 - 2034 | 41,725 | 60,787 | 24,834 | 127,346 |
| 2035 - 2039 | 31,580 | 57,098 | 21,184 | 109,862 |
| 2040 - 2044 | 163,910 | 51,840 | 7,639 | 223,389 |
| 2045 - 2048 | 527,085 | 19,376 | 1,301 | 547,762 |
| Total | \$835,260 | \$321,948 | \$112,898 | \$1,270,106 |

14. DEFERRED OUTFLOWS AND INFLOWS OF RESOURCES

The University's composition of deferred outflows and inflows of resources at June 30 are summarized as follows:

(in thousands of dollars)

| | SERVICE CONCESSION ARRANGEMENTS | NET PENSION LIABILITY | NET RETIREE HEALTH BENEFITS LIABILITY | DEBT REFUNDING | INTEREST RATE SWAP AGREEMENTS | ROYALTY SALES | IRREVOCABLE SPLIT-INTEREST AGREEMENTS | ASSET RETIREMENT OBLIGATIONS | TOTAL |
|--------------------------------|---------------------------------|-----------------------|---------------------------------------|----------------|-------------------------------|---------------|---------------------------------------|------------------------------|--------------|
| <i>At June 30, 2019</i> | | | | | | | | | |
| Deferred outflows of resources | | \$6,271,978 | \$3,908,951 | \$316,136 | \$130,161 | | | \$73,996 | \$10,701,222 |
| Deferred inflows of resources | \$248,002 | 142,132 | 5,896,383 | 1,340 | | \$437,968 | \$102,260 | | 6,828,085 |
| <i>At June 30, 2018</i> | | | | | | | | | |
| Deferred outflows of resources | | \$727,344 | \$3,515,860 | \$351,360 | \$54,839 | | | \$19,523 | \$4,668,926 |
| Deferred inflows of resources | \$176,447 | 275,145 | 5,645,528 | 1,388 | | \$421,341 | \$89,855 | | 6,609,704 |

The campus foundations' deferred inflows of resources are primarily related to irrevocable split-interest agreements.

15. THE UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM (UCRS)

Most University employees participate in UCRS. UCRS consists of UCRP, a governmental defined benefit plan funded with University and employee contributions; UCRSP, which includes defined contribution plans with options to participate in internally or externally managed investment portfolios generally funded with employee non-elective and elective contributions and UC-VERIP, a defined benefit plan for University employees who were members of UC-VERIP and who elected early retirement. Other retirement plans also include the CHRCO Pension Plan, a defined benefit plan fully funded with CHRCO contributions and the Orange County Employee Retirement System (OCERS) retirement plan, a cost-sharing multi-employer defined benefit pension plan. The Regents has the authority to establish and amend the benefit plans except for the CHRCO Pension Plan and OCERS retirement plan. Administration authority with respect to UCRS plans is vested with the President of the University as plan administrator. CHRCO administers the CHRCO Pension Plan as the Sponsor and plan assets are held by US Bank (the Trustee).

Condensed financial information related to each plan in UCRS and the changes in pension liability for UCRP, UC-VERIP and the CHRCO Pension Plan for the year ended June 30, 2019 is as follows:

(in thousands of dollars)

| | UNIVERSITY OF CALIFORNIA | | | | | |
|--|--|-----------------------------------|---------------------|---|---------------------|---|
| | UNIVERSITY OF CALIFORNIA RETIREMENT PLAN | UNIVERSITY OF CALIFORNIA UC-VERIP | SUBTOTAL | UNIVERSITY OF CALIFORNIA RETIREMENT SAVINGS PROGRAM | TOTAL | CHILDREN'S HOSPITAL & RESEARCH CENTER AT OAKLAND PENSION PLAN |
| CONDENSED STATEMENT OF PLAN FIDUCIARY NET POSITION | | | | | | |
| Investments at fair value | \$71,133,046 | \$65,726 | \$71,198,772 | \$24,257,931 | \$95,456,703 | \$501,110 |
| Participants' interests in mutual funds | | | | 1,691,773 | 1,691,773 | |
| Investment of cash collateral | 3,933,691 | 3,642 | 3,937,333 | 2,191,193 | 6,128,526 | |
| Other assets | 1,249,426 | 930 | 1,250,356 | 238,863 | 1,489,219 | |
| Total assets | 76,316,163 | 70,298 | 76,386,461 | 28,379,760 | 104,766,221 | 501,110 |
| Collateral held for securities lending | 3,932,614 | 3,641 | 3,936,255 | 2,190,594 | 6,126,849 | |
| Other liabilities | 2,104,586 | 1,879 | 2,106,465 | 410,109 | 2,516,574 | 2,500 |
| Total liabilities | 6,037,200 | 5,520 | 6,042,720 | 2,600,703 | 8,643,423 | 2,500 |
| Net position held in trust | \$70,278,963 | \$64,778 | \$70,343,741 | \$25,779,057 | \$96,122,798 | \$498,610 |
| CONDENSED STATEMENT OF CHANGES IN PLANS' FIDUCIARY NET POSITION | | | | | | |
| Contributions | \$3,365,193 | | \$3,365,193 | \$1,449,864 | \$4,815,057 | \$31,200 |
| Net appreciation (depreciation) in fair value of investments | 2,780,821 | \$2,526 | 2,783,347 | 918,238 | 3,701,585 | |
| Investment and other income, net | 1,237,774 | 1,222 | 1,238,996 | 485,414 | 1,724,410 | 25,203 |
| Total additions | 7,383,788 | 3,748 | 7,387,536 | 2,853,516 | 10,241,052 | 56,403 |
| Benefit payment and participant withdrawals | 3,816,434 | 4,213 | 3,820,647 | 1,454,549 | 5,275,196 | 15,143 |
| Other deductions | 61,981 | 5 | 61,986 | 6,014 | 68,000 | 2,711 |
| Total deductions | 3,878,415 | 4,218 | 3,882,633 | 1,460,563 | 5,343,196 | 17,854 |
| Increase in net position held in trust | 3,505,373 | (470) | 3,504,903 | 1,392,953 | 4,897,856 | 38,549 |
| Net position held in trust | | | | | | |
| Beginning of year | 66,773,590 | 65,248 | 66,838,838 | 24,386,104 | 91,224,942 | 460,061 |
| End of year | \$70,278,963 | \$64,778 | \$70,343,741 | \$25,779,057 | \$96,122,798 | \$498,610 |
| CHANGES IN TOTAL PENSION LIABILITY | | | | | | |
| Service cost | \$1,946,612 | | \$1,946,612 | | | \$11,430 |
| Interest | 5,576,660 | \$1,983 | 5,578,643 | | | 34,165 |
| Difference between expected and actual experience | 334,605 | (79) | 334,526 | | | |
| Changes of benefit terms | | | | | | 5,214 |
| Changes of assumptions or other inputs | 7,816,717 | 714 | 7,817,431 | | | (9,540) |
| Benefits paid, including refunds of employee contributions | (3,816,434) | (4,213) | (3,820,647) | | | (15,143) |
| Net change in total pension liability | 11,858,160 | (1,595) | 11,856,565 | | | 26,126 |
| Total pension liability: | | | | | | |
| Beginning of year | 76,546,448 | 29,540 | 76,575,988 | | | 484,209 |
| End of year | \$88,404,608 | \$27,945 | \$88,432,553 | | | \$510,335 |
| Net pension liability (asset), end of year | \$18,125,645 | (\$36,833) | \$18,088,812 | | | \$11,725 |

Additional information on the retirement plans can be obtained from the 2018-2019 annual reports of the University of California Retirement System which can be found at <http://reportingtransparency.universityofcalifornia.edu/>.

University of California Retirement Plan

UCRP provides lifetime retirement income, disability protection, death benefits, and post-retirement and pre-retirement survivor benefits to eligible employees of the University, and its affiliates. Membership is required in UCRP for all employees appointed to work at least 50 percent time for one year or more or for an indefinite period or for a definite period of a year or more. An employee may also become eligible by completing 1,000 hours within a 12-month period. Generally, five years of service are required for entitlement to plan benefits. The amount of pension benefit is determined under the basic formula of covered compensation times age factor times years of service credit. The maximum monthly benefit cannot exceed 100 percent of the employee's highest average plan compensation over a 36-month period, subject to certain limits imposed under the Internal Revenue Code or plan provisions. Annual cost-of-living adjustments are made to monthly benefits according to a specified formula based on the Consumer Price Index. Ad hoc COLAs may be granted subject to funding availability.

The University's membership in UCRP consisted of the following at June 30, 2019:

| | CAMPUSES AND MEDICAL CENTERS | DOE NATIONAL LABORATORIES | UNIVERSITY OF CALIFORNIA |
|--|---------------------------------|------------------------------|-----------------------------|
| Retirees and beneficiaries receiving benefits | 65,863 | 13,221 | 79,084 |
| Inactive members entitled to, but not receiving benefits | 91,600 | 9,264 | 100,864 |
| Active members: | | | |
| Vested | 72,776 | 1,627 | 74,403 |
| Nonvested | 52,802 | 722 | 53,524 |
| Total active members | 125,578 | 2,349 | 127,927 |
| Total membership | 283,041 | 24,834 | 307,875 |

Contributions

Contributions to UCRP are based upon rates determined by The Regents. The Regents' funding policy provides for contributions at rates to maintain UCRP on an actuarially sound basis. While the University's independent actuary annually determines the total funding policy contributions, the University is not required to contribute an amount equal to the total funding contribution. The actual contributions and the contribution rates of the University and employees are based on numerous factors, including the availability of funds to the University, the impact of employee contributions on the competitiveness of the University's total remuneration package, and collective bargaining agreements.

The Regents determines the portion of the total contribution to be made by the employer and by the employees, and employee contribution rates for represented employees are subject to collective bargaining. Effective July 1, 2014, employee member contributions range from 7.0 percent to 9.0 percent. The University pays a uniform contribution rate of 14.0 percent of covered payroll on behalf of all UCRP members. The University contribution rate will be increased starting July 1, 2020 by 0.5 percent per year, on July 1st, for six years to 17.0 percent.

Employee contributions to UCRP are accounted for separately and currently accrue interest at 6.0 percent annually. Upon termination, members may elect a refund of their contributions plus accumulated interest; vested terminated members who are eligible to retire may also elect monthly retirement income or possibly a lump sum equal to the present value of their accrued benefits.

Both current employees and retirees at LBNL participate in UCRP. The University makes contributions to UCRP for LBNL employees based upon rates authorized by The Regents and is reimbursed by the DOE. The University also makes contributions to UCRP for LANL and LLNL retirees and terminated vested members whose benefits were retained in UCRP at the time the joint ventures were formed. The contributions for the LANL and LLNL are actuarially determined based upon a contractual arrangement with the DOE that incorporates a formula targeted to maintain the LANL and LLNL segments within UCRP at a 100-percent funded level. The University is reimbursed by the DOE for these contributions. To the extent the University has recorded a net pension liability (and related deferred inflows and outflows of resources) that will be reimbursed under DOE contracts, a receivable from the DOE is recorded. As of June 30, 2019 and 2018, the University reported \$911.5 million and \$316.7 million, respectively, as other noncurrent Department of Energy receivables for pension liabilities. Contributions of \$225.6 million and \$307.9 million were deposited into UCRP on behalf of the DOE for the years ended June 30, 2019 and 2018, respectively.

Net Pension Liability

All UCRP assets are available to pay any member's benefit. However, assets and liabilities for the campus and medical center segment of UCRP are internally tracked separately from the DOE national laboratory segments of UCRP. The net pension liability for UCRP was as follows:

| <i>(in thousands of dollars)</i> | CAMPUSES AND MEDICAL CENTERS | DOE NATIONAL LABORATORIES | UNIVERSITY OF CALIFORNIA |
|----------------------------------|---------------------------------|------------------------------|-----------------------------|
| <i>At June 30, 2019</i> | | | |
| UCRP net position | \$61,056,391 | \$9,222,572 | \$70,278,963 |
| Total pension liability | 78,279,508 | 10,125,100 | 88,404,608 |
| Net pension liability | \$17,223,117 | \$902,528 | \$18,125,645 |
| <i>At June 30, 2018</i> | | | |
| UCRP net position | \$57,608,162 | \$9,165,428 | \$66,773,590 |
| Total pension liability | 67,065,682 | 9,480,766 | 76,546,448 |
| Net pension liability | \$9,457,520 | \$315,338 | \$9,772,858 |

The University's net pension liability was measured as of June 30 and was calculated using the plan net position valued as of the measurement date and total pension liability determined based upon rolling forward the total pension liability from the results of the actuarial valuations as of July 1, one year prior to the measurement date. Actuarial valuations represent a long-term perspective and involve estimates of the value of reported benefits and assumptions about the probability of occurrence of events far into the future. The University's net pension liability was calculated using the following methods and assumptions:

| | 2019 | 2018 |
|----------------------------|-------------|-------------|
| Inflation | 2.5% | 3.0 % |
| Investment rate of return | 6.75 | 7.25 |
| Projected salary increases | 3.65 - 5.95 | 3.75 - 6.15 |
| Cost-of-living adjustments | 2.0 | 2.0 |

Actuarial assumptions are subject to periodic revisions as actual results are compared with past expectations and new estimates are made about the future.

The actuarial assumptions were changed in 2019 based upon the results of an experience study conducted for the period July 1, 2014 through June 30, 2018. In 2019, for preretirement mortality rates, the Pub-2010 Teacher Employee Amount-Weighted Above-Median Mortality Table was used. For post-retirement, healthy mortality rates were based on the Pub-2010 Healthy Teacher Amount-Weighted Above-Median Mortality Table multiplied by 90 percent for male Faculty members, 95 percent for female Faculty members, 100 percent for other male members and 110 percent for other female members. For beneficiaries of retired members, rates were based on the Pub-2010 Contingent Survivor Amount-Weighted Above-Median Mortality Table multiplied by 100 percent for males and 90 percent for females. For disabled members, rates were based on the Pub-2010 Non-Safety Disabled Retiree Amount-Weighted Mortality Table. All mortality tables above were projected generationally with the two-dimensional mortality improvement scale MP-2018.

The actuarial assumptions used in 2018 were based upon the results of an experience study conducted for the period July 1, 2010 through June 30, 2014. In 2018, for preretirement mortality rates, the RP-2014 White Collar Employee Mortality Tables (separate table for males and females) projected with the two-dimensional MP-2014 projection scale to 2029 were used. For post-retirement, healthy mortality rates were based on the RP-2014 White Collar Healthy Annuitant Mortality Table projected with the two-dimensional MP-2014 projection scale to 2029, and with ages then set forward one year. For disabled members, rates were based on the RP-2014 Disabled Retiree Mortality Table projected with the two-dimensional MP-2014 projection scale to 2029, and with ages then set back one year for males and set forward five years for females.

The long-term expected investment rate of return assumption for UCRP was determined in 2019 using a building-block method in which expected future real rates of return (expected returns, net of inflation) are developed for each major asset class. These returns are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage, adding expected inflation and subtracting expected expenses and a risk margin. The target allocation and projected arithmetic real rates of return for each major asset class, after deducting inflation, but before deducting investment expenses, used in the derivation of the long-term expected investment rate of return assumption are summarized in the following table:

| | TARGET ALLOCATION | LONG-TERM EXPECTED REAL RATE OF RETURN |
|---|----------------------|--|
| Asset class: | | |
| U.S. equity | 27.6% | 5.6% |
| Developed international equity | 16.8 | 6.5 |
| Emerging market equity | 5.6 | 8.6 |
| Core bonds | 13.0 | 1.5 |
| High yield bonds | 2.5 | 3.7 |
| Treasury Inflation-Protected Securities | 2.0 | 1.2 |
| Emerging market debt | 2.5 | 3.9 |
| Private equity | 10.0 | 9.2 |
| Real estate | 7.0 | 6.6 |
| Absolute return | 10.0 | 3.3 |
| Real assets | 3.0 | 5.6 |
| Total | 100.0% | 5.4% |

Discount Rate

The discount rate used to estimate the net pension liability as of June 30, 2019 and 2018 was 6.75 percent and 7.25 percent, respectively. To calculate the discount rate, cash flows into and out of UCRP were projected in order to determine whether UCRP has sufficient cash in future periods for projected benefit payments for current members. For this purpose, University, state and member contributions that are intended to fund benefits of current plan members and their beneficiaries are included. Projected University and member contributions that are intended to fund the service costs of future plan members and their beneficiaries, as well as projected contributions of future plan members, are not included. UCRP was projected to have assets sufficient to make projected benefit payments for current members for all future years as of June 30, 2019 and 2018.

Sensitivity of the Net Pension Liability to the Discount Rate Assumption

The following presents the June 30, 2019 net pension liability of the University calculated using the June 30, 2019 discount rate assumption of 6.75 percent, as well as what the net pension liability would be if it were calculated using a discount rate different than the current assumption:

| <i>(in thousands of dollars)</i> | 1% DECREASE (5.75%) | CURRENT DISCOUNT (6.75%) | 1% INCREASE (7.75%) |
|----------------------------------|------------------------|-----------------------------|------------------------|
| UCRP | \$30,096,724 | \$18,125,645 | \$8,250,405 |
| UC-VERIP | (35,386) | (36,833) | (38,139) |

Deferred Outflows of Resources and Deferred Inflows of Resources

Deferred outflows of resources and deferred inflows of resources for pensions were related to the following sources:

| <i>(in thousands of dollars)</i> | CAMPUSES AND MEDICAL CENTERS | DOE NATIONAL LABORATORIES | TOTAL UCRP | UC-VERIP | TOTAL |
|--|---------------------------------|------------------------------|--------------------|--------------|--------------------|
| <i>At June 30, 2019</i> | | | | | |
| DEFERRED OUTFLOWS OF RESOURCES | | | | | |
| Difference between expected and actual experience | \$451,810 | | \$451,810 | | \$451,810 |
| Changes of assumptions or other inputs | 5,796,896 | | 5,796,896 | | 5,796,896 |
| Total | \$6,248,706 | | \$6,248,706 | | \$6,248,706 |
| DEFERRED INFLOWS OF RESOURCES | | | | | |
| Difference between expected and actual experience | \$7,617 | | \$7,617 | | \$7,617 |
| Net difference between projected and actual earnings on pension plan investments | 114,396 | \$8,955 | 123,351 | \$109 | 123,460 |
| Total | \$122,013 | \$8,955 | \$130,968 | \$109 | \$131,077 |

| <i>(in thousands of dollars)</i> | CAMPUSES AND MEDICAL CENTERS | DOE NATIONAL LABORATORIES | TOTAL UCRP | UC-VERIP | TOTAL |
|--|---------------------------------|------------------------------|------------------|-------------|------------------|
| <i>At June 30, 2018</i> | | | | | |
| DEFERRED OUTFLOWS OF RESOURCES | | | | | |
| Difference between expected and actual experience | \$244,188 | \$1,696 | \$245,884 | | \$245,884 |
| Changes of assumptions or other inputs | 458,349 | | 458,349 | | 458,349 |
| Total | \$702,537 | \$1,696 | \$704,233 | | \$704,233 |
| DEFERRED INFLOWS OF RESOURCES | | | | | |
| Difference between expected and actual experience | \$55,427 | | \$55,427 | | \$55,427 |
| Net difference between projected and actual earnings on pension plan investments | 208,589 | \$4,484 | 213,073 | \$14 | 213,087 |
| Total | \$264,016 | \$4,484 | \$268,500 | \$14 | \$268,514 |

The net amount of deferred outflows of resources and deferred inflows of resources as of June 30, 2019 related to pensions that will be recognized in pension expense during the next five years are as follows:

| <i>(in thousands of dollars)</i> | CAMPUSES AND MEDICAL CENTERS | DOE NATIONAL LABORATORIES | TOTAL UCRP | UC-VERIP | TOTAL |
|----------------------------------|---------------------------------|------------------------------|--------------------|----------------|--------------------|
| 2020 | \$2,016,006 | \$55,212 | \$2,071,218 | \$441 | \$2,071,659 |
| 2021 | 1,015,452 | (96,850) | 918,602 | (785) | 917,817 |
| 2022 | 1,658,459 | 10,137 | 1,668,596 | 64 | 1,668,660 |
| 2023 | 1,439,808 | 22,546 | 1,462,354 | 171 | 1,462,525 |
| Total | \$6,129,725 | (\$8,955) | \$6,120,770 | (\$109) | \$6,120,661 |

Defined Contribution Plan

Effective July 1, 2016, newly hired (or becoming eligible) employees can elect a defined contribution option instead of participating in UCRP. For employees who elect this option, both the University and the participants make mandatory contributions, on a pretax basis, on eligible pay up to the IRS compensation limit. The participant contributes 7.0 percent and the University contributes 8.0 percent. University contributions are fully vested after one year of service. For employees who elect to participate in UCRP and who are subject to the California Public Employees' Pension Reform Act (PEPRA) maximum, both the University and the participants make mandatory DC Plan retirement contributions on a pretax basis. For designated faculty, the University contributes 5.0 percent to the DC Plan on all eligible pay up to the IRC compensation limit. For staff, the University contributes 3.0 percent to the DC Plan on eligible pay above the PEPRA maximum up to the IRC compensation limit. Both designated faculty and staff contribute 7.0 percent on eligible pay above the PEPRA maximum up to the IRC compensation limit. The University may also contribute on behalf of eligible senior managers. Employer contributions to the DC Plan were \$48.5 million and \$29.8 million for the years ended June 30, 2019 and 2018, respectively.

The DC Plan Pretax Account also includes mandatory contributions from part-time, seasonal and temporary employees at the University who are not currently participating in UCRP or another defined benefit plan to which the University contributes (Safe Harbor participants). Safe Harbor participation includes certain University student employees and resident aliens with F-1 and J-1 visa status. Safe Harbor participants contribute 7.5 percent of their gross salary (up to the Social Security wage base) to the Plan in lieu of deductions for Social Security taxes.

All University employees, except students who normally work fewer than 20 hours per week, are eligible to make voluntary contributions to the DC Plan After-Tax Account and defer taxation on the earnings until the accumulations are withdrawn. The maximum amount participants may contribute annually to the After-Tax Account is determined by the IRC §415(c) limit. The University may also make DC Plan contributions on behalf of eligible senior managers.

The Supplemental Defined Contribution Plan (SDC Plan) accepts employer contributions on behalf of certain designated employees. Employer contributions are fully vested and there is no provision for employee contributions. There were no assets or employer contributions to the SDC Plan for the years ended June 30, 2019 and 2018.

Tax Deferred 403(b) Plan

The University's Tax-Deferred 403(b) Plan (403(b) Plan) accepts pretax employee contributions.

The University also makes 403(b) Plan retirement contributions on the summer or equivalent term salaries of eligible academic employees who teach, conduct research or provide administrative service during the summer session or an equivalent term. To be eligible, employees must hold academic year appointments and be active members of UCRP or another defined benefit plan to which the University contributes. The contribution rate is 7.0 percent of eligible salary, of which 3.5 percent is University-paid and 3.5 percent is employee-paid, both on a pretax basis. The University may also make contributions in behalf of certain members of management. Employer contributions to the 403(b) Plan were \$8.0 million and \$8.7 million for the years ended June 30, 2019 and 2018.

457(b) Deferred Compensation Plan

The University's 457(b) Deferred Compensation Plan (457(b) Plan) accepts pretax employee contributions. There were no employer contributions to the 457(b) Plan for the years ended June 30, 2019 and 2018.

Participants in the DC Plan, the SDC Plan, the 403(b) Plan and the 457(b) Plan may direct their elective and nonelective contributions to investment funds managed by the Chief Investment Officer. They may also invest account balances in certain mutual funds. The participants' interests in mutual funds is shown separately in the statement of plans' fiduciary net position.

University of California Voluntary Early Retirement Incentive Program

UC-VERIP is a defined benefit pension plan providing lifetime supplemental retirement income and survivor benefits to UC-VERIP members who elected early retirement under provisions of the Plan. The University contributed to VERIP on behalf of these UC-VERIP members. As of July 1, 2019, there are 450 retirees or beneficiaries receiving benefits under this voluntary early retirement program.

The University and the DOE laboratories previously made contributions to the Plan sufficient to maintain the promised benefits. The actuarially determined contributions are zero for the years ended June 30, 2019 and 2018.

Children's Hospital and Research Center at Oakland Pension Plan

CHRCO has a noncontributory defined benefit plan subject to the single employer defined benefit under ERISA rules that covers active and retired employees. The CHRCO Pension Plan was amended effective January 1, 2012 to exclude unrepresented employees hired or rehired on or after January 1, 2012. The CHRCO Pension Plan provides retirement, disability and death benefits to plan participants. Benefits are based on a participant's length of service, age at retirement and average compensation as defined by the CHRCO Pension Plan.

The net pension liability for the Plan was calculated based upon the following assumptions as of June 30, 2019: 3.0 percent inflation, 7.0 percent investment rate of return, 4.0 percent projected salary increases and no cost-of-living adjustments. CHRCO recognized pension expense of \$27.1 million at June 30, 2019. The net pension liability for the Plan was calculated based upon the following assumptions as of June 30, 2018: 3.0 percent inflation, 7.0 percent investment rate of return, 5.0 percent salary increases through 2017, 4.0 percent afterward and no cost-of-living adjustments. CHRCO recognized pension expense of \$22.3 million at June 30, 2018.

The actuarial assumptions used in the June 30, 2019 valuation were based on the results of an experience review conducted during 2019. In 2019, mortality rates were based on the RP-2014 mortality (base year 2006) with fully generational projected mortality improvements using projection scale MP-2018.

The actuarial assumptions used in the June 30, 2018 valuation were based on the results of an experience review conducted during 2017. In 2018, mortality rates were based on the RP-2016 mortality with fully generational projected mortality improvements using modified scale MP-2016. The MP-2016 projection scale was modified for this valuation to utilize the Social Security Administration's intermediate cost projection scale and a 15-year convergence period.

Additional information on the CHRCO Pension Plan can be found in the annual reports, which can be obtained by writing to the Children's Hospital of Oakland, Finance Department, 747 52nd Street, Oakland, California 94609.

Membership in the CHRCO Plan consisted of the following at June 30, 2019:

| | |
|--|--------------|
| Retirees and beneficiaries receiving benefits | 1,031 |
| Inactive members entitled to, but not yet receiving benefits | 1,152 |
| Active members | 1,856 |
| Total membership | 4,039 |

Contributions

Employer contributions are determined under IRC Section 430. Employees are not required or permitted to contribute to the Plan.

Net Pension Liability

The net pension liability for CHRCO was measured as of June 30 and the total pension liability was determined by an actuarial valuation as of January 1, rolled forward to June 30. The target allocation and projected arithmetic real rates of return, after deducting inflation, but before investment expenses, used in the derivation of the long-term expected investment rate of return assumption for each major asset class for the CHRCO Pension Plan are as follows for June 30, 2019:

| | PORTFOLIO PERCENTAGE | LONG-TERM EXPECTED REAL RATE OF RETURN |
|--------------------------------|---------------------------------|---|
| Asset class: | | |
| Domestic equity | 49.3% | 4.3% |
| Developed international equity | 11.6 | 5.9 |
| Emerging market equity | 1.5 | 8.4 |
| Core fixed income | 37.6 | 2.2 |
| Total | 100.0% | |

Discount Rate

The discount rate used to measure the total pension liability was 7.0 percent for June 30, 2019 and 2018. The projection of cash flows used to determine the discount rate assumes that CHRCO will make contributions to the plan under IRC Section 430's minimum requirements for a period of eight years, and that all future assumptions are met. Based on these assumptions, the pension plan's fiduciary net position is projected to be available to make all projected future benefit payments for current active and inactive employees.

Sensitivity of the Net Pension Liability to the Discount Rate Assumption

The following presents the June 30, 2019 net pension liability calculated using the June 30, 2019 discount rate assumption of 7.0 percent, as well as what the net pension liability would be if it were calculated using a discount rate different than the current assumption:

| <i>(in thousands of dollars)</i> | 1% DECREASE (6.0%) | CURRENT DISCOUNT (7.0%) | 1% INCREASE (8.0%) |
|----------------------------------|-------------------------------|------------------------------------|-------------------------------|
| Net pension liability | \$84,367 | \$11,725 | (\$48,305) |

Deferred Outflows of Resources and Deferred Inflows of Resources

As of June 30, deferred outflows of resources and deferred inflows of resources were as follows:

| <i>(in thousands of dollars)</i> | 2019 | 2018 |
|--|-----------------|-----------------|
| DEFERRED OUTFLOWS OF RESOURCES | | |
| Difference between expected and actual experience | \$8,106 | \$5,714 |
| Changes of benefit terms | 94 | 178 |
| Changes of assumptions | 9,550 | 15,659 |
| Net difference between projected and actual earnings on pension plan investments | 2,506 | |
| Total | \$20,256 | \$21,551 |
| DEFERRED INFLOWS OF RESOURCES | | |
| Difference between expected and actual experience | \$1,050 | \$1,709 |
| Changes of assumptions | 7,993 | |
| Net difference between projected and actual earnings on pension plan investments | | 267 |
| Total | \$9,043 | \$1,976 |

The net amount of deferred outflows of resources and deferred inflows of resources related to pensions that will be recognized in pension expense during the next five years is as follows:

| <i>(in thousands of dollars)</i> | |
|----------------------------------|-----------------|
| <i>Year Ending June 30</i> | |
| 2020 | \$9,044 |
| 2021 | 959 |
| 2022 | 965 |
| 2023 | 1,239 |
| 2024 | (633) |
| Thereafter | (361) |
| Total | \$11,213 |

Orange County Employees Retirement System (OCERS)

OCERS administers a cost-sharing, multi-employer defined benefit pension plan for the County of Orange, City of San Juan Capistrano and thirteen special districts. Certain employees of one of the University's medical centers were eligible to continue to participate in OCERS at the time the county hospital was acquired by the University.

OCERS provides retirement, disability and death benefits. Retirement benefits are tiered based upon date of OCERS membership. Participation in OCERS for the University's employees is closed. The University's share of net pension liability, deferred inflows of resources, deferred outflows of resources and pension expense have been determined based upon its specific actuarial accrued liability and a share of assets allocated in accordance with a formula set forth in OCERS' policy. The fiduciary net position and changes in net position have been measured consistent with the accounting policies used by OCERS. Pursuant to an agreement between the University and the County of Orange (OC), the University and OC will equally split the contributions and net pension liability. The amounts reported in the financial statements reflect the University's share of the net pension liability, deferred inflows and outflows and pension expense.

Additional information on OCERS can be obtained from the 2018-2019 annual reports of the Orange County Employees Retirement System at <http://www.ocers.org>.

Membership in the OCERS Plan consisted of the following at December 31, 2018: 17,674 retired members and beneficiaries, 6,026 inactive members, 21,929 active members.

Contributions

Contribution rates are set by the OCERS Board of Trustees.

Net Pension Liability

The University's proportionate share of the net pension liability was \$17.4 million and \$13.8 million as of June 30, 2019 and 2018, respectively. The net pension liability for OCERS was measured as of June 30, 2019 and 2018, and the total pension liability was determined by an actuarial valuation as of December 31, 2018 and 2017 rolled forward to June 30, 2019 and 2018, respectively. The actuarial assumptions used in 2019 and 2018 were based on the results of an experience study for the period from January 1, 2014 through December 31, 2016.

The net pension liability for the Plan was calculated based upon the following assumptions as of June 30, 2019 and 2018: 2.8 percent inflation, 7.0 percent investment rate of return, 4.25 to 12.25 percent projected salary increases for general members and 2.8 percent cost-of-living adjustments.

The target allocation and projected arithmetic real rates of return, after deducting inflation, but before investment expenses, used in the derivation of the long-term expected investment rate of return assumption for each major asset class for the OCERS Plan are as follows:

| | ORANGE COUNTY EMPLOYEES RETIREMENT SYSTEM | |
|---|---|--|
| | TARGET ALLOCATION | LONG-TERM EXPECTED REAL RATE OF RETURN |
| Asset class: | | |
| Global equity | 35.0% | 6.4% |
| Core bonds | 13.0 | 1.0 |
| High-yield bonds | 4.0 | 3.5 |
| Bank loan | 2.0 | 2.9 |
| Treasury Inflation-Protected Securities | 4.0 | 1.0 |
| Emerging market debt | 4.0 | 3.8 |
| Real estate | 10.0 | 4.3 |
| Core infrastructure | 2.0 | 5.5 |
| Natural resources | 10.0 | 7.9 |
| Risk mitigation | 5.0 | 4.7 |
| Mezzanine/distressed debts | 3.0 | 6.5 |
| Private equity | 8.0 | 9.5 |
| Total | 100.0% | |

Discount Rate

The discount rate used to measure the total pension liability was 7.0 percent for June 30, 2019 and 2018. The projection of cash flows used to determine the discount rate assumed plan member contributions will be made at the current contribution rate and that employer contributions will be made at rates equal to the actuarially determined contribution rate. For this purpose, only employer contributions will be made at rates equal to the actuarially determined contribution rates.

Sensitivity of the Net Pension Liability to the Discount Rate Assumption

The following presents the current-period net pension liability calculated using the June 30, 2019 discount rate assumption of 7.0 percent, as well as what the net pension liability would be if it were calculated using a discount rate different than the current assumption:

| <i>(in thousands of dollars)</i> | ORANGE COUNTY EMPLOYEES RETIREMENT SYSTEM | | |
|----------------------------------|---|---------------------------------|-----------------------|
| | 1% DECREASE (6.0%) | CURRENT DISCOUNT RATE (7.0%) | 1% INCREASE (8.0%) |
| Net pension liability | \$25,314 | \$17,404 | \$10,975 |

Deferred Outflows of Resources and Deferred Inflows of Resources

As of June 30, deferred outflows of resources and deferred inflows of resources were as follows:

| <i>(in thousands of dollars)</i> | 2019 | 2018 |
|--|----------------|----------------|
| DEFERRED OUTFLOWS OF RESOURCES | | |
| Changes of assumptions or other inputs | \$949 | \$1,186 |
| Difference between expected and actual experience | 542 | 374 |
| Net difference between projected and actual earnings on pension plan investments | 1,525 | |
| Total | \$3,016 | \$1,560 |
| DEFERRED INFLOWS OF RESOURCES | | |
| Difference between expected and actual experience | \$1,751 | \$2,286 |
| Changes of assumptions or other inputs | 261 | 482 |
| Net difference between projected and actual earnings on pension plan investments | | 1,887 |
| Total | \$2,012 | \$4,655 |

The net amount of deferred outflows of resources and deferred inflows of resources related to pensions that will be recognized in pension expense during the next five years and thereafter is as follows:

| <i>(in thousands of dollars)</i> | |
|----------------------------------|----------------|
| <i>Year Ending June 30</i> | |
| 2020 | \$288 |
| 2021 | (56) |
| 2022 | 80 |
| 2023 | 641 |
| 2024 | 51 |
| Total | \$1,004 |

16. RETIREE HEALTH BENEFIT COSTS AND OBLIGATIONS

The University administers single-employer health and welfare plans to provide health and welfare benefits, primarily medical, dental and vision, to eligible retirees (and their eligible family members) of the University of California and its affiliates through the University of California Retiree Health Benefit Trust (UCRHBT or Trust). The Regents has the authority to establish and amend the plan. While retiree health benefits are not a legal obligation of the University and can be cancelled or modified at any time, accounting standards require the University to recognize a net retiree health liability based on the current practices of providing retiree health benefits.

Campus and medical center contributions toward retiree health benefits, at rates determined by the University, are made to UCRHBT. The University receives retiree health contributions from retirees that are deducted from their UCRP benefit payments or are received from the retiree through direct pay. The University acts as a third-party administrator on behalf of UCRHBT and pays health care insurers and administrators amounts currently due under the University's retiree health benefit plans for retirees. UCRHBT reimburses the University for these amounts.

LBNL participates in the University's retiree health plans. LBNL does not participate in UCRHBT; therefore, the DOE has no interest in the Trust's assets. The University directly pays health care insurers and administrators amounts currently due under the University's retiree health benefit plans for retirees who previously worked at LBNL, and is reimbursed by the DOE. To the extent the University has recorded a net retiree health benefits liability (and related deferred inflows and outflows of resources) that will be reimbursed under DOE contracts, a receivable from the DOE is recorded. The University recorded receivables from the DOE of \$667.6 million and \$656.9 million for 2019 and 2018, respectively, representing the DOE's share of the net retiree health benefits liability.

Condensed financial information for the changes in retiree health benefits liability for the year ended June 30, 2019 is as follows:

| <i>(in thousands of dollars)</i> | CAMPUSES AND MEDICAL CENTERS | LBNL | UNIVERSITY OF CALIFORNIA |
|---|---------------------------------|-------------------|-----------------------------|
| Contributions | \$515,048 | \$22,209 | \$537,257 |
| Investment income, net | 3,195 | | 3,195 |
| Total additions | 518,243 | 22,209 | 540,452 |
| Insurance premiums, net | (490,615) | (22,209) | (512,824) |
| Other deductions | (4,300) | | (4,300) |
| Total deductions | (494,915) | (\$22,209) | (517,124) |
| Increase in net position held in UCRHBT | 23,328 | | 23,328 |
| Net position held in UCRHBT, beginning of year | 133,581 | | 133,581 |
| Net position held in UCRHBT, end of year | \$156,909 | | \$156,909 |

| <i>(in thousands of dollars)</i> | CAMPUSES AND MEDICAL CENTERS | LBNL | UNIVERSITY OF CALIFORNIA |
|--|---------------------------------|------------------|-----------------------------|
| CHANGES IN TOTAL RETIREE HEALTH BENEFITS LIABILITY | | | |
| Service cost | \$798,249 | \$17,405 | \$815,654 |
| Interest | 734,693 | 23,828 | 758,521 |
| Changes of benefit terms | (28,401) | (914) | (29,315) |
| Difference between expected and actual experience | (1,175,284) | (43,862) | (1,219,146) |
| Changes of assumptions and other inputs | 1,091,609 | 32,430 | 1,124,039 |
| Benefits paid | (490,615) | (22,209) | (512,824) |
| Retiree contributions | 82,710 | 3,110 | 85,820 |
| Net change in total retiree health benefits liability | 1,012,961 | 9,788 | 1,022,749 |
| Total retiree health benefits liability | | | |
| Beginning of year | 18,388,092 | 607,754 | 18,995,846 |
| End of year | 19,401,053 | 617,542 | 20,018,595 |
| Net retiree health benefits liability, end of year | \$19,244,144 | \$617,542 | \$19,861,686 |

Benefits

Retirees are eligible for medical and dental benefits. The costs of the medical and dental benefits are shared between the University and the retiree. The University does not contribute toward the cost of other benefits available to retirees. Retirees employed by the University prior to 1990 and not rehired after that date are eligible for the University's maximum contribution if they retire before age 55 and have at least 10 years of service, or if they retire at age 55 or later and have at least five years of service. Retirees employed by the University after 1989 and prior to July 2013 become eligible for a percentage of the University's contribution starting at 50 percent of the maximum University contribution with 10 years of service, increasing to 100 percent after 20 years of service. Retirees who are employed by the University after July 1, 2013, and retire at the age of 56 or older, become eligible for a percentage of the University's contribution based on age and years of service. Retirees are eligible for the maximum University contribution at age 65 with 20 or more years of service. Retirees pay the excess, if any, of the premium over the applicable portion of the University's contribution.

Membership in a defined benefit plan to which the University contributes or participation in the DC Plan as a result of a Savings Choice election is required to become eligible for retiree health benefits. Participation in the retiree health benefit plans consisted of the following at June 30, 2019:

| | CAMPUSES AND MEDICAL CENTERS | LBNL | UNIVERSITY OF CALIFORNIA |
|--|---------------------------------|--------------|-----------------------------|
| Retirees and beneficiaries receiving benefits | 43,631 | 1,863 | 45,494 |
| Active members entitled to, but not yet receiving benefits | 131,678 | 2,375 | 134,053 |
| Total membership | 175,309 | 4,238 | 179,547 |

Contributions

The University does not pre-fund retiree health benefits and instead provides for benefits based upon projected pay-as-you-go financing. University and retiree contributions toward premiums made under purchased plan arrangements are determined by applying the health plan contract rates across the number of participants in the respective plans. Premium rates for the self-insured plan contributions are set by the University based upon a trend analysis of the historic cost, utilization, demographics and administrative expenses to provide for the claims incurred and the actuarially determined level of incurred but not reported liability. The assessment rates were \$2.70 and \$2.80 per \$100 of UCRP covered payroll effective July 1, 2018 and 2017, respectively.

In addition to the explicit University contribution provided to retirees, there is an "implicit subsidy." The gross premiums for members that are not currently eligible for Medicare benefits are the same for active employees and retirees, based on a blend of their health costs. Retirees, on average, are expected to have higher health care costs than active employees. This is primarily due to the older average age of retirees. Since the same gross premiums apply to both groups, the premiums paid for active employees by the University are subsidizing the premiums for retirees. This effect is called the implicit subsidy. The implicit subsidy associated with retiree health costs paid during the past year is also considered to be a contribution from the University.

Net Retiree Health Benefits Liability

The University's net retiree health benefits liability was measured as of June 30 based on rolling forward the results of the actuarial valuations as of July 1, one year prior to the measurement date. Actuarial valuations represent a long-term perspective and involve estimates of the value of reported benefits and assumptions about the probability of occurrence of events far into the future. Significant actuarial methods and assumptions used to calculate the University's net retiree health benefits liability were:

| <i>(shown as percentage)</i> | 2019 | 2018 |
|------------------------------|--|--|
| Discount rate | 3.50% | 3.87% |
| Inflation | 2.5 | 3.0 |
| Investment rate of return | 2.5 | 3.0 |
| Health care cost trend rates | Initially ranges from 4.4 to 9.4 decreasing to an ultimate rate of 4.0 for 2077 and later years. | Initially ranges from 5.0 to 9.3 decreasing to an ultimate rate of 5.0 for 2033 and later years. |

Actuarial assumptions are subject to periodic revisions as actual results are compared with past expectations and new estimates are made about the future. The actuarial assumptions were changed in 2019 based upon the results of an experience study conducted for the period July 1, 2014 through June 30, 2018. For pre-retirement mortality rates, the Pub-2010 Teacher Employee Headcount-Weighted Above-Median Mortality Table were used. For post-retirement, healthy mortality rates were based on the Pub-2010 Healthy Teacher Retiree Headcount-Weighted Above-Median Mortality Table and multiplied by 90 percent for faculty members or 115 percent and 110 percent for other male and female members, respectively. For beneficiaries of retired members, rates were based on the Pub-2010 Contingent Survivor Headcount-Weighted Above-Median Mortality Table. For disabled members, rates were based on the Pub-2010 Non-Safety Disabled Retiree-Headcount Weighted Mortality Table. All mortality rates are projected generationally with the two-dimensional mortality improvement scale MP-2018.

The actuarial assumptions used in 2018 were based upon the results of an experience study conducted for the period of July 1, 2010 through June 30, 2014. For pre-retirement mortality rates, the RP-2014 White Collar Employee Mortality Tables (separate table for males and females) projected with the two-dimensional MP-2014 projection scale to 2029 were used. For post-retirement, healthy mortality rates are based on the RP-2014 White Collar Healthy Annuitant Mortality Table projected with the two-dimensional MP-2014 projection scale to 2029, and with ages then set forward one year. For disabled members, rates are based on the RP-2014 Disabled Retiree Mortality Table projected with the two-dimensional MP-2014 projection scale to 2029, and with ages then set back one year for males and set forward five years for females. For disabled members, rates are based on the RP-2014 Disabled Retiree Mortality Table, projected with the two-dimensional MP-2014 projection scale to 2029 and with ages then set back one year for males and set forward five years for females.

Sensitivity of Net Retiree Health Benefits Liability to the Health Care Cost Trend Rate

The following presents the June 30, 2019 net retiree health benefits liability of the University calculated using the June 30, 2019 health care cost trend rate assumption with initial trend ranging from 4.4 percent to 9.4 percent grading down to an ultimate trend of 4.0 percent over 58 years, as well as what the net retiree health benefits liability would be if it were calculated using a health care cost trend rate different than the current assumption:

| <i>(in thousands of dollars)</i> | 1% DECREASE (3.4% to 8.4%) DECREASING TO (3.0%) | CURRENT TREND (4.4% to 9.4%) DECREASING TO (4.0%) | 1% INCREASE (5.4% to 10.4%) DECREASING TO (5.0%) |
|---------------------------------------|--|--|---|
| Net retiree health benefits liability | \$16,376,081 | \$19,861,686 | \$24,479,845 |

Discount Rate

The discount rate used to estimate the net retiree health benefits liability as of June 30, 2019 and 2018 was 3.50 percent and 3.87 percent, respectively. The discount rate was based on the Bond Buyer 20-year tax-exempt general obligations municipal bond index rate since UCHRBT plan assets are not sufficient to make benefit payments.

Sensitivity of Net Retiree Health Benefits Liability to the Discount Rate Assumption

The following presents the June 30, 2019 net retiree health benefits liability of the University calculated using the June 30, 2019 discount rate assumption of 3.5 percent, as well as what the net retiree health benefits liability would be if it were calculated using a discount rate different than the current assumption:

| <i>(in thousands of dollars)</i> | 1% DECREASE (2.5%) | CURRENT DISCOUNT (3.5%) | 1% INCREASE (4.5%) |
|---------------------------------------|-------------------------------|------------------------------------|-------------------------------|
| Net retiree health benefits liability | \$23,772,386 | \$19,861,686 | \$16,787,001 |

Deferred Outflows of Resources and Deferred Inflows of Resources

Deferred outflows of resources and deferred inflows of resources for retiree health benefits were related to the following sources:

(in thousands of dollars)

| 2019 | CAMPUSES AND MEDICAL CENTERS | LBNL | UNIVERSITY OF CALIFORNIA |
|--|---|------------------|-------------------------------------|
| DEFERRED OUTFLOWS OF RESOURCES | | | |
| Difference between expected and actual experience | \$64,528 | \$3,200 | \$67,728 |
| Changes of assumptions or other inputs | 3,743,309 | 94,691 | 3,838,000 |
| Net difference between projected and actual earnings on plan investments | 3,223 | | 3,223 |
| Total | \$3,811,060 | \$97,891 | \$3,908,951 |
| DEFERRED INFLOWS OF RESOURCES | | | |
| Difference between expected and actual experience | \$2,969,290 | \$83,537 | \$3,052,827 |
| Changes of assumptions or other inputs | 2,779,110 | 64,446 | 2,843,556 |
| Total | \$5,748,400 | \$147,983 | \$5,896,383 |
| <i>(in thousands of dollars)</i> | | | |
| 2018 | CAMPUSES AND MEDICAL CENTERS | LBNL | UNIVERSITY OF CALIFORNIA |
| DEFERRED OUTFLOWS OF RESOURCES | | | |
| Difference between expected and actual experience | \$74,770 | \$4,142 | \$78,912 |
| Changes of assumptions or other inputs | 3,340,913 | 92,220 | 3,433,133 |
| Net difference between projected and actual earnings on plan investments | 3,815 | | 3,815 |
| Total | \$3,419,498 | \$96,362 | \$3,515,860 |
| DEFERRED INFLOWS OF RESOURCES | | | |
| Difference between expected and actual experience | \$2,279,073 | \$62,148 | \$2,341,221 |
| Changes of assumptions or other inputs | 3,220,923 | 83,384 | 3,304,307 |
| Total | \$5,499,996 | \$145,532 | \$5,645,528 |

The net amount of deferred outflows of resources and deferred inflows of resources as of June 30, 2019 related to retiree health benefits that will be recognized in retiree health benefit expense during the next five years and thereafter are as follows:

| <i>(in thousands of dollars)</i> | CAMPUSES AND MEDICAL CENTERS | LBNL | UNIVERSITY OF CALIFORNIA |
|----------------------------------|---|-------------------|-------------------------------------|
| 2020 | (\$226,060) | (\$10,510) | (\$236,570) |
| 2021 | (226,400) | (10,510) | (236,910) |
| 2022 | (226,816) | (15,371) | (242,187) |
| 2023 | (227,201) | (12,299) | (239,500) |
| 2024 | (345,574) | (1,402) | (346,976) |
| Thereafter | (685,289) | | (685,289) |
| Total | (\$1,937,340) | (\$50,092) | (\$1,987,432) |

17. ENDOWMENTS AND GIFTS

Endowments and gifts are held and administered either by the University or by the campus foundations.

University of California

The value of endowments and gifts held and administered by the University, exclusive of income distributed to be used for operating purposes, at June 30, 2019 and 2018 are as follows:

| <i>(in thousands of dollars)</i> | UNIVERSITY OF CALIFORNIA | | | |
|--|-------------------------------------|----------------------------------|---------------------|---------------------|
| | RESTRICTED NONEXPENDABLE | RESTRICTED EXPENDABLE | UNRESTRICTED | TOTAL |
| <i>At June 30, 2019</i> | | | | |
| Endowments | \$1,176,981 | \$3,308,042 | \$6,291 | \$4,491,314 |
| Funds functioning as endowments | | 2,802,208 | 5,170,260 | 7,972,468 |
| Gifts | | 1,819,515 | 15,244 | 1,834,759 |
| University endowments and gifts | \$1,176,981 | \$7,929,765 | \$5,191,795 | \$14,298,541 |
| <i>At June 30, 2018</i> | | | | |
| Endowments | \$1,148,699 | \$3,123,815 | \$5,861 | \$4,278,375 |
| Funds functioning as endowments | | 2,653,219 | 4,439,270 | 7,092,489 |
| Gifts | | 1,630,200 | | 1,630,200 |
| University endowments and gifts | \$1,148,699 | \$7,407,234 | \$4,445,131 | \$13,001,064 |

The University's endowment income distribution policies are designed to preserve the value of the endowment in real terms (after inflation) and to generate a predictable stream of spendable income. Endowment investments are managed to achieve the maximum long-term total return. As a result of this emphasis on total return, the proportion of the annual income distribution provided by dividend and interest income and by capital gains may vary significantly from year to year. The University's policy is to retain the realized and unrealized appreciation with the endowment after the annual income distribution has been made. The net appreciation available to meet future spending needs is subject to the approval of The Regents and amounted to \$2.7 billion and \$2.6 billion at June 30, 2019 and 2018, respectively.

The portion of investment returns earned on endowments held by the University and distributed at the end of each year to support current operations for the following year is based upon a rate that is approved by The Regents. The annual income distribution transferred to the campuses from endowments held by the University was \$352.7 million and \$315.1 million for the years ended June 30, 2019 and 2018, respectively. The portion of this annual income distribution from accumulated capital gains, in addition to the dividend and interest income earned during the year, was \$350.0 million and \$283.4 million for the years ended June 30, 2019 and 2018, respectively. Accumulated endowment income available for spending in the future, including the annual income distribution, was \$729.9 million and \$689.4 million at June 30, 2019 and 2018, respectively.

Campus Foundations

The value of endowments and gifts held by the campus foundations and administered by each of their independent Board of Trustees at June 30 are as follows:

(in thousands of dollars)

| | UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS | | | |
|---|---|--------------------------|------------------|---------------------|
| | RESTRICTED NONEXPENDABLE | RESTRICTED EXPENDABLE | UNRESTRICTED | TOTAL |
| <i>At June 30, 2019</i> | | | | |
| Endowments | \$4,885,413 | \$1,523,428 | | \$6,408,841 |
| Funds functioning as endowments | | 1,918,902 | | 1,918,902 |
| Gifts | | 1,575,430 | \$538,714 | 2,114,144 |
| Campus foundations' endowments and gifts | \$4,885,413 | \$5,017,760 | \$538,714 | \$10,441,887 |
| <i>At June 30, 2018</i> | | | | |
| Endowments | \$4,408,143 | \$1,465,623 | | \$5,873,766 |
| Funds functioning as endowments | | 1,839,813 | | 1,839,813 |
| Gifts | | 1,660,232 | \$429,581 | 2,089,813 |
| Campus foundations' endowments and gifts | \$4,408,143 | \$4,965,668 | \$429,581 | \$9,803,392 |

18. SEGMENT INFORMATION

The University's medical centers' and CHRCO's revenues are pledged in support of the outstanding University of California Medical Center Pooled Revenue Bonds. The medical centers' operating revenues and expenses consist primarily of revenues associated with patient care and the related costs of providing that care.

Condensed financial statement information related to each of the University's medical centers for the year ended June 30, 2019 is as follows:

(in thousands of dollars)

| | UNIVERSITY OF CALIFORNIA MEDICAL CENTERS | | | | |
|---|--|--------------------|--------------------|--------------------|--------------------|
| | DAVIS | IRVINE | LOS ANGELES | SAN DIEGO | SAN FRANCISCO |
| <i>Year Ended June 30, 2019</i> | | | | | |
| Revenue bonds outstanding | \$301,785 | \$315,320 | \$704,990 | \$694,035 | \$906,245 |
| Related debt service payments | 31,187 | 18,209 | 43,460 | 42,844 | 56,641 |
| Bonds due serially through | 2048 | 2049 | 2049 | 2049 | 2049 |
| CONDENSED STATEMENT OF NET POSITION | | | | | |
| Current assets | \$1,356,413 | \$731,126 | \$1,901,162 | \$794,978 | \$1,896,612 |
| Capital assets, net | 1,115,955 | 766,783 | 1,671,098 | 1,609,016 | 2,427,895 |
| Other assets | 119,465 | 9,348 | 140,421 | 27,191 | 334,053 |
| Total assets | 2,591,833 | 1,507,257 | 3,712,681 | 2,431,185 | 4,658,560 |
| Total deferred outflows of resources | 746,421 | 312,113 | 858,937 | 701,535 | 1,352,434 |
| Current liabilities | 457,064 | 237,264 | 503,481 | 295,493 | 708,871 |
| Long-term debt | 320,819 | 329,673 | 876,922 | 771,188 | 917,096 |
| Other noncurrent liabilities | 2,774,731 | 1,261,246 | 2,996,536 | 2,122,303 | 4,070,505 |
| Total liabilities | 3,552,614 | 1,828,183 | 4,376,939 | 3,188,984 | 5,696,472 |
| Total deferred inflows of resources | 408,817 | 226,433 | 547,364 | 284,341 | 617,396 |
| Net investment in capital assets | 766,483 | 431,447 | 762,330 | 813,976 | 1,505,229 |
| Restricted | 13,283 | 9,348 | 24,776 | | 97,383 |
| Unrestricted | (1,402,943) | (676,041) | (1,139,791) | (1,154,581) | (1,905,486) |
| Total net position | (\$623,177) | (\$235,246) | (\$352,685) | (\$340,605) | (\$302,874) |

(in thousands of dollars)

| | UNIVERSITY OF CALIFORNIA MEDICAL CENTERS | | | | |
|--|--|--------------------|--------------------|--------------------|--------------------|
| | DAVIS | IRVINE | LOS ANGELES | SAN DIEGO | SAN FRANCISCO |
| CONDENSED STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION | | | | | |
| Operating revenues | \$2,329,290 | \$1,278,934 | \$2,858,931 | \$2,067,448 | \$4,819,214 |
| Operating expenses | (2,267,844) | (1,119,677) | (2,538,061) | (2,054,330) | (4,746,178) |
| Depreciation expense | (84,354) | (84,675) | (152,840) | (102,640) | (212,222) |
| Operating income (loss) | (22,908) | 74,582 | 168,030 | (89,522) | (139,186) |
| Nonoperating revenues (expenses), net | 16,360 | (9,519) | 17,603 | (27,678) | 44,172 |
| Income before other changes in net position | (6,548) | 65,063 | 185,633 | (117,200) | (95,014) |
| Health systems support | (29,033) | (85,051) | (218,228) | (127,684) | (146,232) |
| Transfers (to) from University, net | (22,611) | 39,622 | | (9,005) | |
| Changes in allocation for pension payable to University | (3,651) | (2,767) | 3,866 | (5,486) | (14,359) |
| Other, including donated assets | 2,164 | 8,937 | 14,268 | 9,542 | 127,498 |
| Increase (decrease) in net position | (59,679) | 25,804 | (14,461) | (249,833) | (128,107) |
| Net position - beginning of year | (563,498) | (261,050) | (338,224) | (90,772) | (174,767) |
| Net position - end of year | (\$623,177) | (\$235,246) | (\$352,685) | (\$340,605) | (\$302,874) |
| CONDENSED STATEMENT OF CASH FLOWS | | | | | |
| Net cash provided (used) by: | | | | | |
| Operating activities | \$320,161 | \$237,729 | \$541,026 | \$274,655 | \$431,764 |
| Noncapital financing activities | (42,723) | (43,178) | (212,664) | (132,833) | (105,869) |
| Capital and related financing activities | (157,342) | (99,024) | (166,534) | (98,788) | (176,740) |
| Investing activities | (41,970) | 27,858 | 9,091 | 4,673 | (25,986) |
| Net increase in cash and cash equivalents | 78,126 | 123,385 | 170,919 | 47,707 | 123,169 |
| Cash and cash equivalents* - beginning of year | 741,159 | 331,844 | 943,930 | 293,548 | 823,411 |
| Cash and cash equivalents* - end of year | \$819,285 | \$455,229 | \$1,114,849 | \$341,255 | \$946,580 |

*Cash and cash equivalents on the medical centers' financial statements are included in the University's Short Term Investment Pool.

Condensed financial statement information related to each of the University's medical centers for the year ended June 30, 2018 is as follows:

(in thousands of dollars)

| | UNIVERSITY OF CALIFORNIA MEDICAL CENTERS | | | | |
|---|--|--------------------|--------------------|-------------------|--------------------|
| | DAVIS | IRVINE | LOS ANGELES | SAN DIEGO | SAN FRANCISCO |
| <i>Year Ended June 30, 2018</i> | | | | | |
| Revenue bonds outstanding | \$319,685 | \$316,560 | \$717,840 | \$700,975 | \$910,600 |
| Related debt service payments | 31,566 | 18,199 | 41,504 | 42,372 | 56,315 |
| Bonds due serially through | 2048 | 2049 | 2049 | 2049 | 2049 |
| CONDENSED STATEMENT OF NET POSITION | | | | | |
| Current assets | \$1,139,430 | \$588,986 | \$1,666,222 | \$754,844 | \$1,648,154 |
| Capital assets, net | 1,080,332 | 759,413 | 1,717,689 | 1,661,760 | 2,375,485 |
| Other assets | 151,231 | 41,547 | 105,689 | 24,352 | 293,397 |
| Total assets | 2,370,993 | 1,389,946 | 3,489,600 | 2,440,956 | 4,317,036 |
| Total deferred outflows of resources | 330,997 | 128,954 | 454,015 | 401,567 | 775,863 |
| Current liabilities | 408,938 | 230,244 | 471,304 | 246,776 | 655,904 |
| Long-term debt | 342,030 | 335,335 | 908,811 | 792,429 | 922,666 |
| Other noncurrent liabilities | 2,126,078 | 979,793 | 2,454,479 | 1,619,329 | 3,105,237 |
| Total liabilities | 2,877,046 | 1,545,372 | 3,834,594 | 2,658,534 | 4,683,807 |
| Total deferred inflows of resources | 388,442 | 234,578 | 447,245 | 274,761 | 583,859 |
| Net investment in capital assets | 698,049 | 421,341 | 780,373 | 847,607 | 1,447,759 |
| Restricted | 45,783 | 41,547 | 10,884 | | 77,245 |
| Unrestricted | (1,307,330) | (723,938) | (1,129,481) | (938,379) | (1,699,771) |
| Total net position | (\$563,498) | (\$261,050) | (\$338,224) | (\$90,772) | (\$174,767) |

(in thousands of dollars)

| | UNIVERSITY OF CALIFORNIA MEDICAL CENTERS | | | | |
|--|--|--------------------|--------------------|-------------------|--------------------|
| | DAVIS | IRVINE | LOS ANGELES | SAN DIEGO | SAN FRANCISCO |
| CONDENSED STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION | | | | | |
| Operating revenues | \$2,221,761 | \$1,177,504 | \$2,514,065 | \$1,938,229 | \$4,370,406 |
| Operating expenses | (1,969,238) | (963,940) | (2,246,262) | (1,720,386) | (4,025,824) |
| Depreciation expense | (76,331) | (78,723) | (147,785) | (93,379) | (216,292) |
| Operating income | 176,192 | 134,841 | 120,018 | 124,464 | 128,290 |
| Nonoperating revenues (expenses), net | 15,612 | (12,761) | 9,872 | (24,959) | 46,189 |
| Income before other changes in net position | 191,804 | 122,080 | 129,890 | 99,505 | 174,479 |
| Health systems support | (30,285) | (48,173) | (212,827) | (124,055) | (116,286) |
| Transfers (to) from University, net | (19,570) | 6,198 | 12,629 | (3,034) | 15,850 |
| Changes in allocation for pension payable to University | 2,032 | 9,523 | (1,148) | (10,528) | (3,175) |
| Other, including donated assets | 1,066 | 1,566 | (466) | (17,984) | 122,071 |
| Increase (decrease) in net position | 145,047 | 91,194 | (71,922) | (56,096) | 192,939 |
| Net position - beginning of year | (708,545) | (352,244) | (266,302) | (34,676) | (367,706) |
| Net position - end of year | (\$563,498) | (\$261,050) | (\$338,224) | (\$90,772) | (\$174,767) |
| CONDENSED STATEMENT OF CASH FLOWS | | | | | |
| Net cash provided (used) by: | | | | | |
| Operating activities | \$237,543 | \$126,943 | \$353,639 | \$170,516 | \$380,406 |
| Noncapital financing activities | (42,810) | (49,646) | (268,614) | (129,729) | (78,010) |
| Capital and related financing activities | (137,245) | (109,604) | (171,333) | (154,010) | (134,092) |
| Investing activities | 55,262 | 21,289 | 22,477 | 11,949 | 28,383 |
| Net increase (decrease) in cash and cash equivalents | 112,750 | (11,018) | (63,831) | (101,274) | 196,687 |
| Cash and cash equivalents* - beginning of year | 628,409 | 342,862 | 1,007,761 | 394,822 | 626,724 |
| Cash and cash equivalents* - end of year | \$741,159 | \$331,844 | \$943,930 | \$293,548 | \$823,411 |

*Cash and cash equivalents on the medical centers' financial statements are included in the University's Short Term Investment Pool.

Summarized financial information for each medical center is from the medical centers' audited financial statements. Certain revenue, such as financial support from the state for clinical teaching programs, is classified as state educational appropriations rather than medical center revenue in the University's statement of revenues, expenses and changes in net position. However, in the medical centers' audited financial statements and for segment reporting purposes, these revenues are classified as operating revenue. Additional information on the individual University of California medical centers can be obtained from their audited financial statements which are available at <http://reportingtransparency.universityofcalifornia.edu>.

Certain revenue generating projects (including student and faculty housing, parking facilities, student centers, recreation and events facilities, student health facilities and athletics facilities) are also financed by Limited Project Revenue Bonds; however, assets and liabilities are not required to be accounted for separately.

19. BLENDED COMPONENT UNIT INFORMATION

Condensed financial statement information related to certain of the University's blended component units for the year ended June 30, 2019 is as follows:

(in thousands of dollars)

| | FIAT LUX | CHRCO | RESEARCH | HOUSING |
|--|------------------|------------------|------------------|-------------------|
| CONDENSED STATEMENTS OF NET POSITION | | | | |
| Current assets | \$296,425 | \$328,387 | \$54,824 | \$597,182 |
| Capital assets, net | | 330,502 | 147,469 | 522,928 |
| Other assets | 912,625 | 296,882 | 318,340 | 187,781 |
| Total assets | 1,209,050 | 955,771 | 520,633 | 1,307,891 |
| Total deferred outflows of resources | | 20,256 | 5,801 | |
| Current liabilities | 264,370 | 197,066 | 10,234 | 55,924 |
| Other noncurrent liabilities | 752,362 | 143,891 | 469,289 | 1,278,931 |
| Total liabilities | 1,016,732 | 340,957 | 479,523 | 1,334,855 |
| Total deferred inflows of resources | | 24,994 | | |
| Net investment in capital assets | | 227,984 | 37,441 | 25,232 |
| Restricted | | 83,004 | 4,631 | (9,188) |
| Unrestricted | 192,318 | 299,088 | 4,839 | (43,008) |
| Total net position | \$192,318 | \$610,076 | \$46,911 | (\$26,964) |
| CONDENSED STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION | | | | |
| Operating revenues | \$275,675 | \$653,675 | \$14,893 | \$90,917 |
| Operating expenses | (258,705) | (619,035) | (3,128) | (42,277) |
| Depreciation expense | | (35,887) | (2,582) | (15,104) |
| Operating income (loss) | 16,970 | (1,247) | 9,183 | 33,536 |
| Nonoperating revenues (expenses), net | 53,966 | 44,063 | (6,366) | (18,190) |
| Income before other changes in net position | 70,936 | 42,816 | 2,817 | 15,346 |
| Other, including donated assets | | 4,730 | | |
| Increase in net position | 70,936 | 47,546 | 2,817 | 15,346 |
| Net position – beginning of year | 121,382 | 562,530 | 44,094 | (42,310) |
| Net position – end of year | \$192,318 | \$610,076 | \$46,911 | (\$26,964) |
| CONDENSED STATEMENT OF CASH FLOWS | | | | |
| <i>Net cash provided (used) by:</i> | | | | |
| Operating activities | \$87,500 | \$48,781 | \$11,183 | \$100,284 |
| Noncapital financing activities | | 31,735 | | |
| Capital and related financing activities | | (48,572) | (46,477) | 671,932 |
| Investing activities | (138,034) | (12,945) | 328 | (750,496) |
| Net increase (decrease) in cash and cash equivalents | (50,534) | 18,999 | (34,966) | 21,720 |
| Cash and cash equivalents – beginning of year | 56,321 | 141,548 | 192,422 | 17,233 |
| Cash and cash equivalents – end of year | \$5,787 | \$160,547 | \$157,456 | \$38,953 |

Condensed financial statement information related to certain of the University's blended component units for the year ended June 30, 2018 is as follows:

(in thousands of dollars)

| | FIAT LUX | CHRCO | RESEARCH | HOUSING |
|--|------------------|------------------|------------------|-------------------|
| CONDENSED STATEMENTS OF NET POSITION | | | | |
| Current assets | \$314,210 | \$311,603 | \$35,922 | \$219,120 |
| Capital assets, net | | 325,396 | 113,603 | 354,533 |
| Other assets | 775,010 | 269,174 | 371,738 | 133 |
| Total assets | 1,089,220 | 906,173 | 521,263 | 573,786 |
| Total deferred outflows of resources | | 21,551 | 6,077 | |
| Current liabilities | 282,264 | 193,228 | 9,822 | 35,606 |
| Other noncurrent liabilities | 685,574 | 156,024 | 473,424 | 580,490 |
| Total liabilities | 967,838 | 349,252 | 483,246 | 616,096 |
| Total deferred inflows of resources | | 15,942 | | |
| Net investment in capital assets | | 222,341 | 37,698 | 11,882 |
| Restricted | | 66,759 | 189,523 | 131,887 |
| Unrestricted | 121,382 | 273,430 | (183,127) | (186,079) |
| Total net position | \$121,382 | \$562,530 | \$44,094 | (\$42,310) |
| CONDENSED STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION | | | | |
| Operating revenues | \$239,201 | \$591,608 | \$14,812 | \$94,376 |
| Operating expenses | (283,309) | (582,955) | (2,305) | (50,843) |
| Depreciation expense | | (35,946) | (3,114) | (14,987) |
| Operating income (loss) | (44,108) | (27,293) | 9,393 | 28,546 |
| Nonoperating revenues (expenses), net | 17,473 | 44,428 | (9,671) | (22,453) |
| Income (loss) before other changes in net position | (26,635) | 17,135 | (278) | 6,093 |
| Other, including donated assets | 3 | 2,014 | | |
| Increase (decrease) in net position | (26,632) | 19,149 | (278) | 6,093 |
| Net position – beginning of year | 148,014 | 543,381 | 44,372 | (48,403) |
| Net position – end of year | \$121,382 | \$562,530 | \$44,094 | (\$42,310) |
| CONDENSED STATEMENT OF CASH FLOWS | | | | |
| <i>Net cash provided (used) by:</i> | | | | |
| Operating activities | \$67,426 | \$37,520 | \$12,557 | \$20,514 |
| Noncapital financing activities | 3 | 23,462 | | |
| Capital and related financing activities | | (56,953) | 178,913 | 159,480 |
| Investing activities | (11,810) | 18,657 | (2,317) | (174,983) |
| Net increase in cash and cash equivalents | 55,619 | 22,686 | 189,153 | 5,011 |
| Cash and cash equivalents – beginning of year | 702 | 118,862 | 3,269 | 12,222 |
| Cash and cash equivalents – end of year | \$56,321 | \$141,548 | \$192,422 | \$17,233 |

CHRCO's other assets include investments in the UCSF Foundation's Endowed Investment Pool of \$243.2 million and \$234.4 million at June 30, 2019 and 2018.

Additional information on the blended component units can be found in their separately issued audited financial statements.

20. CAMPUS FOUNDATIONS INFORMATION

Under University policies approved by The Regents, each individual campus may establish a separate foundation to provide valuable assistance in fundraising, public outreach and other support for the missions of the campus and the University. Although independent boards govern these foundations, their assets are dedicated for the benefit of the University of California.

Condensed financial statement information related to the University's campus foundations, including their allocated share of the assets and liabilities associated with securities lending transactions in the University's investment pools, for the year ended June 30, 2019 is as follows:

(in thousands of dollars)

| | UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS | | | | | |
|--|---|--------------------|--------------------|--------------------|--------------------|---------------------|
| | BERKELEY | SAN FRANCISCO | LOS ANGELES | SAN DIEGO | ALL OTHER | TOTAL |
| CONDENSED STATEMENT OF NET POSITION | | | | | | |
| Current assets | \$140,203 | \$459,416 | \$681,249 | \$147,368 | \$181,497 | \$1,609,733 |
| Noncurrent assets | 2,301,104 | 1,846,848 | 3,127,358 | 968,994 | 1,664,074 | 9,908,378 |
| Total assets | 2,441,307 | 2,306,264 | 3,808,607 | 1,116,362 | 1,845,571 | 11,518,111 |
| Current liabilities | 19,706 | 35,277 | 314,259 | 7,598 | 42,564 | 419,404 |
| Noncurrent liabilities | 78,739 | 284,009 | 32,166 | 7,563 | 25,668 | 428,145 |
| Total liabilities | 98,445 | 319,286 | 346,425 | 15,161 | 68,232 | 847,549 |
| Total deferred inflows of resources | 63,275 | 31,377 | 50,162 | 63,377 | 20,484 | 228,675 |
| Restricted | 2,268,502 | 1,955,202 | 2,922,558 | 1,012,372 | 1,744,539 | 9,903,173 |
| Unrestricted | 11,085 | 399 | 489,462 | 25,452 | 12,316 | 538,714 |
| Total net position | \$2,279,587 | \$1,955,601 | \$3,412,020 | \$1,037,824 | \$1,756,855 | \$10,441,887 |
| CONDENSED STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION | | | | | | |
| Operating revenues | \$147,008 | \$251,426 | \$347,424 | \$57,320 | \$116,152 | \$919,330 |
| Operating expenses | (228,154) | (341,081) | (329,950) | (107,952) | (163,076) | (1,170,213) |
| Operating income (loss) | (81,146) | (89,655) | 17,474 | (50,632) | (46,924) | (250,883) |
| Nonoperating revenues | 106,490 | 80,891 | 94,558 | 58,847 | 90,241 | 431,027 |
| Income (loss) before other changes in net position | 25,344 | (8,764) | 112,032 | 8,215 | 43,317 | 180,144 |
| Permanent endowments | 118,880 | 113,882 | 122,232 | 32,584 | 70,773 | 458,351 |
| Increase in net position | 144,224 | 105,118 | 234,264 | 40,799 | 114,090 | 638,495 |
| Net position – beginning of year | 2,135,363 | 1,850,483 | 3,177,756 | 997,025 | 1,642,765 | 9,803,392 |
| Net position – end of year | \$2,279,587 | \$1,955,601 | \$3,412,020 | \$1,037,824 | \$1,756,855 | \$10,441,887 |
| CONDENSED STATEMENT OF CASH FLOWS | | | | | | |
| <i>Net cash provided (used) by:</i> | | | | | | |
| Operating activities | (\$75,071) | (\$92,845) | \$19,883 | (\$54,226) | (\$37,255) | (\$239,514) |
| Noncapital financing activities | 91,333 | 114,840 | 115,297 | 27,944 | 46,445 | 395,859 |
| Investing activities | (14,153) | (33,522) | (130,481) | 26,288 | 6,740 | (145,128) |
| Net increase (decrease) in cash and cash equivalents | 2,109 | (11,527) | 4,699 | 6 | 15,930 | 11,217 |
| Cash and cash equivalents – beginning of year | 6,279 | 396,869 | 4,599 | 1,039 | 38,591 | 447,377 |
| Cash and cash equivalents – end of year | \$8,388 | \$385,342 | \$9,298 | \$1,045 | \$54,521 | \$458,594 |

Condensed financial statement information related to the University's campus foundations, including their allocated share of the assets and liabilities associated with securities lending transactions in the University's investment pools, for the year ended June 30, 2018 is as follows:

(in thousands of dollars)

| UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS | | | | | | |
|--|--------------------|--------------------|--------------------|------------------|--------------------|--------------------|
| | BERKELEY | SAN FRANCISCO | LOS ANGELES | SAN DIEGO | ALL OTHER | TOTAL |
| CONDENSED STATEMENT OF NET POSITION | | | | | | |
| Current assets | \$107,922 | \$474,253 | \$686,801 | \$154,696 | \$174,747 | \$1,598,419 |
| Noncurrent assets | 2,192,958 | 1,715,100 | 2,875,851 | 912,566 | 1,576,866 | 9,273,341 |
| Total assets | 2,300,880 | 2,189,353 | 3,562,652 | 1,067,262 | 1,751,613 | 10,871,760 |
| Current liabilities | 16,540 | 37,777 | 301,390 | 7,868 | 51,559 | 415,134 |
| Noncurrent liabilities | 79,454 | 272,184 | 32,680 | 7,781 | 29,117 | 421,216 |
| Total liabilities | 95,994 | 309,961 | 334,070 | 15,649 | 80,676 | 836,350 |
| Total deferred inflows of resources | 69,523 | 28,909 | 50,826 | 54,588 | 28,172 | 232,018 |
| Restricted | 2,132,259 | 1,850,079 | 2,785,000 | 973,135 | 1,633,338 | 9,373,811 |
| Unrestricted | 3,104 | 404 | 392,756 | 23,890 | 9,427 | 429,581 |
| Total net position | \$2,135,363 | \$1,850,483 | \$3,177,756 | \$997,025 | \$1,642,765 | \$9,803,392 |
| CONDENSED STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION | | | | | | |
| Operating revenues | \$181,523 | \$356,891 | \$526,446 | \$167,338 | \$109,197 | \$1,341,395 |
| Operating expenses | (237,177) | (293,986) | (354,556) | (99,789) | (150,696) | (1,136,204) |
| Operating income (loss) | (55,654) | 62,905 | 171,890 | 67,549 | (41,499) | 205,191 |
| Nonoperating revenues | 156,996 | 198,747 | 202,766 | 55,599 | 109,614 | 723,722 |
| Income before other changes in net position | 101,342 | 261,652 | 374,656 | 123,148 | 68,115 | 928,913 |
| Permanent endowments | 79,970 | 104,342 | 79,895 | 35,167 | 109,333 | 408,707 |
| Increase in net position | 181,312 | 365,994 | 454,551 | 158,315 | 177,448 | 1,337,620 |
| Net position – beginning of year | 1,954,051 | 1,484,489 | 2,723,205 | 838,710 | 1,465,317 | 8,465,772 |
| Net position – end of year | \$2,135,363 | \$1,850,483 | \$3,177,756 | \$997,025 | \$1,642,765 | \$9,803,392 |
| CONDENSED STATEMENT OF CASH FLOWS | | | | | | |
| <i>Net cash provided (used) by:</i> | | | | | | |
| Operating activities | (\$82,042) | (\$81,653) | \$116,294 | (\$35,615) | (\$47,818) | (\$130,834) |
| Noncapital financing activities | 61,846 | 105,665 | 67,843 | 26,744 | 93,434 | 355,532 |
| Investing activities | 21,888 | 161,997 | (184,816) | 8,657 | (39,147) | (31,421) |
| Net increase (decrease) in cash and cash equivalents | 1,692 | 186,009 | (679) | (214) | 6,469 | 193,277 |
| Cash and cash equivalents – beginning of year | 4,587 | 210,860 | 5,278 | 1,253 | 32,122 | 254,100 |
| Cash and cash equivalents – end of year | \$6,279 | \$396,869 | \$4,599 | \$1,039 | \$38,591 | \$447,377 |

Additional information on the foundations can be found in the foundations' separately issued annual reports, which can be obtained by contacting the individual foundation.

21. COMMITMENTS AND CONTINGENCIES

Contractual Commitments

Amounts committed but unexpended for construction projects totaled \$1.6 billion at June 30, 2019. The University has a remaining commitment to contribute \$89.8 million for investments in joint ventures at June 30, 2019.

The University leases land, buildings and equipment under agreements recorded as operating leases. Operating lease expenses for the years ended June 30, 2019 and 2018 were \$362.4 million and \$335.5 million, respectively. The terms of the operating leases extend through October 2042.

Future minimum payments on operating leases with an initial or remaining non-cancelable term in excess of one year are as follows:

(in thousands of dollars)

| UNIVERSITY OF CALIFORNIA | |
|---------------------------------|--------------------|
| <i>Year Ending June 30</i> | |
| 2020 | \$291,506 |
| 2021 | 240,089 |
| 2022 | 183,958 |
| 2023 | 143,443 |
| 2024 | 107,000 |
| 2025 - 2029 | 252,443 |
| 2030 - 2034 | 86,793 |
| 2035 - 2039 | 18,884 |
| 2040 - 2043 | 1,324 |
| Total | \$1,325,440 |

Contingencies

Substantial amounts are received and expended by the University, including its medical centers, under federal and state programs, and are subject to audit by cognizant governmental agencies. This funding relates to research, student aid, medical center operations and other programs. University management believes that any liabilities arising from such audits will not have a material effect on the University's financial position.

The University and the campus foundations are contingently liable in connection with certain other claims and contracts, including those currently in litigation, arising in the normal course of its activities. Although there are inherent uncertainties in any litigation, University management and general counsel are of the opinion that the outcome of such matters will not have a material effect on the University's financial position.

Required Supplementary Information *(Unaudited)*

UCRP

The schedule of changes in net pension liability includes multiyear trend information about whether the pension assets are increasing or decreasing over time relative to the pension liabilities. The University's schedule of changes in the net pension liability for UCRP as of June 30 is:

(in thousands of dollars)

| | 2019 | 2018 | 2017 | 2016 |
|--|---------------------|--------------------|---------------------|---------------------|
| TOTAL PENSION LIABILITY | | | | |
| Service cost | \$1,946,612 | \$1,873,004 | \$1,807,143 | \$1,710,241 |
| Interest on the total pension liability | 5,576,660 | 5,295,733 | 5,035,267 | 4,784,904 |
| Difference between expected and actual experience | 334,605 | 138,419 | 74,664 | 136,167 |
| Changes of assumptions or other inputs | 7,816,717 | | | |
| Benefits paid, including refunds of employee contributions | (3,816,434) | (3,587,554) | (3,320,990) | (3,105,641) |
| Net change in total pension liability | 11,858,160 | 3,719,602 | 3,596,084 | 3,525,671 |
| Total pension liability - beginning of year | 76,546,448 | 72,826,846 | 69,230,762 | 65,705,091 |
| Total pension liability - end of year | 88,404,608 | 76,546,448 | 72,826,846 | 69,230,762 |
| PLAN NET POSITION | | | | |
| Contributions - employer | 2,408,650 | 2,335,874 | 2,385,576 | 2,426,683 |
| Contributions - member | 956,543 | 941,144 | 891,987 | 845,036 |
| Contributions - state | | 169,000 | 171,000 | 96,000 |
| Net investment income | 4,018,595 | 4,837,552 | 7,866,281 | (1,104,655) |
| Benefits paid, including refunds of employee contributions | (3,816,434) | (3,587,554) | (3,320,990) | (3,105,642) |
| Administrative expense | (61,981) | (36,684) | (44,128) | (48,340) |
| Net change in plan net position | 3,505,373 | 4,659,332 | 7,949,726 | (890,918) |
| Plan net position - beginning of year | 66,773,590 | 62,114,258 | 54,164,532 | 55,055,450 |
| Plan net position - end of year | 70,278,963 | 66,773,590 | 62,114,258 | 54,164,532 |
| Net pension liability - end of year | \$18,125,645 | \$9,772,858 | \$10,712,588 | \$15,066,230 |

(in thousands of dollars)

| | 2015 | 2014 | 2013 | 2012 |
|--|---------------------|--------------------|---------------------|---------------------|
| TOTAL PENSION LIABILITY | | | | |
| Service cost | \$1,589,267 | \$1,519,183 | \$1,456,761 | \$1,531,094 |
| Interest on the total pension liability | 4,538,846 | 4,316,728 | 4,112,461 | 3,871,146 |
| Difference between expected and actual experience | (112,155) | (320,624) | (183,253) | (212,758) |
| Changes of assumptions or other inputs | 2,136,793 | | (3,312,815) | 4,923,778 |
| Benefits paid, including refunds of employee contributions | (2,976,992) | (2,687,540) | (2,487,369) | (2,273,071) |
| Net change in total pension liability | 5,175,759 | 2,827,747 | (414,215) | 7,840,189 |
| Total pension liability - beginning of year | 60,529,332 | 57,701,585 | 58,115,800 | 50,275,611 |
| Total pension liability - end of year | 65,705,091 | 60,529,332 | 57,701,585 | 58,115,800 |
| PLAN NET POSITION | | | | |
| Contributions - employer | 2,510,046 | 1,580,876 | 810,056 | 1,851,460 |
| Contributions - member | 793,012 | 577,466 | 415,641 | 272,420 |
| Net investment income | 1,993,801 | 8,009,980 | 4,833,339 | 115,863 |
| Benefits paid, including refunds of employee contributions | (2,976,993) | (2,687,540) | (2,487,369) | (2,273,071) |
| Administrative expense | (48,283) | (37,641) | (37,426) | (32,839) |
| Net change in plan net position | 2,271,583 | 7,443,141 | 3,534,241 | (66,167) |
| Plan net position - beginning of year | 52,783,867 | 45,340,726 | 41,806,485 | 41,872,652 |
| Plan net position - end of year | 55,055,450 | 52,783,867 | 45,340,726 | 41,806,485 |
| Net pension liability - end of year | \$10,649,641 | \$7,745,465 | \$12,360,859 | \$16,309,315 |

The University's schedule of net pension liability for UCRP as of June 30 is:

| (in thousands of dollars) | 2019 | 2018 | 2017 | 2016 |
|--|---------------------|--------------------|---------------------|---------------------|
| Total pension liability | \$88,404,608 | \$76,546,448 | \$72,826,846 | \$69,230,762 |
| Plan net position | 70,278,963 | 66,773,590 | 62,114,258 | 54,164,532 |
| Net pension liability | \$18,125,645 | \$9,772,858 | \$10,712,588 | \$15,066,230 |
| Ratio of plan net position to total pension liability | 79.5% | 87.2% | 85.3% | 78.2% |
| Covered payroll | \$12,168,209 | \$11,923,489 | \$11,301,506 | \$10,689,424 |
| Net pension liability as a percentage of covered payroll | 149.0% | 82.0% | 94.8% | 140.9% |

| (in thousands of dollars) | 2015 | 2014 | 2013 | 2012 |
|--|---------------------|--------------------|---------------------|---------------------|
| Total pension liability | \$65,705,091 | \$60,529,332 | \$57,701,585 | \$58,115,800 |
| Plan net position | 55,055,450 | 52,783,867 | 45,340,726 | 41,806,485 |
| Net pension liability | \$10,649,641 | \$7,745,465 | \$12,360,859 | \$16,309,315 |
| Ratio of plan net position to total pension liability | 83.8% | 87.2% | 78.6% | 71.9% |
| Covered payroll | \$10,047,570 | \$9,372,583 | \$8,921,077 | \$8,594,147 |
| Net pension liability as a percentage of covered payroll | 106.0% | 82.6% | 138.6% | 189.8% |

The University's schedule of employer contributions for UCRP as of June 30 is:

(in thousands of dollars)

| YEAR ENDED JUNE 30 | ACTUARILLY DETERMINED CONTRIBUTIONS | CONTRIBUTIONS IN RELATION TO ACTUARIAL CONTRIBUTIONS | CONTRIBUTION DEFICIENCY (EXCESS) | COVERED PAYROLL | CONTRIBUTIONS AS A PERCENTAGE OF COVERED PAYROLL |
|-----------------------|---|--|-------------------------------------|-----------------|--|
| 2019 | \$2,742,671 | \$2,408,650 | \$334,021 | \$12,168,209 | 20% |
| 2018 | 2,669,169 | 2,504,874 | 164,295 | 11,923,489 | 21 |
| 2017 | 2,654,710 | 2,556,576 | 98,134 | 11,301,506 | 23 |
| 2016 | 2,610,953 | 2,522,683 | 88,270 | 10,689,424 | 24 |
| 2015 | 2,664,384 | 2,510,046 | 154,338 | 10,047,570 | 25 |
| 2014 | 2,472,697 | 1,580,876 | 891,821 | 9,372,583 | 17 |
| 2013 | 2,062,022 | 810,056 | 1,251,966 | 8,921,077 | 9 |
| 2012 | 1,806,205 | 1,851,459 | (45,254) | 8,594,147 | 22 |
| 2011 | 1,695,137 | 1,677,921 | 17,216 | 8,140,629 | 21 |
| 2010 | 454 | 148,445 | (147,991) | 7,973,921 | 2 |

NOTES TO SCHEDULE

Methods and assumptions used to determined contribution rates:

| | |
|-------------------------------|--|
| Valuation date | Actuarially determined contribution rates are calculated as of July 1, two years prior to the end of the fiscal year in which contributions are reported. |
| Actuarial cost method | Entry age actuarial cost method. |
| Amortization method | Level dollar, closed periods. |
| Remaining amortization period | 18.83 years as of July 1, 2018. The July 1, 2010 amortization bases were combined into a single amortization base and amortized over 30 years. Any changes in Unfunded Actuarial Accrued Liability (UAAL) due to actuarial experience gains or losses after July 1, 2010, are separately amortized over a fixed (closed) 30-year period effective with that valuation. Any changes in UAAL due to a change in actuarial assumptions or plan provisions are separately amortized over a fixed (closed) 15-year period. Any changes in UAAL due to actuarial experience gains or losses or a change in actuarial assumptions after July 1, 2014, are separately amortized over a fixed (closed) 20-year period. |
| Asset valuation method | The market value of assets less unrecognized returns in each of the last five years. An unrecognized return is equal to the difference between the actual and the expected return on a market value basis and is recognized over a five-year period. |

| | June 30, 2019 measurement date | June 30, 2018 measurement date |
|----------------------------|--|--|
| Inflation | 2.50%. | 3.00%. |
| Investment rate of return | 6.75%, net of pension plan investment expenses, including inflation. | 7.25%, net of pension plan investment expenses, including inflation. |
| Projected salary increases | 3.65 - 5.95%, varying by service, including inflation. | 3.75 - 6.15%, varying by service, including inflation. |
| Cost-of-living adjustments | 2.00%. | 2.00%. |
| Mortality | Active and inactive: Pub-2010 Teacher Employee Amount-Weighted Above-Median Mortality Table. Healthy: Pub-2010 Healthy Teacher Amount-Weighted Above-Median Mortality Table, multiplied by 90 percent for male Faculty members, 95 percent for female Faculty members, 100 percent for other male members and 110 percent for other female members. Beneficiaries of retired members: Pub-2010 Contingent Survivor Amount-Weighted Above-Median Mortality Table multiplied by 100 percent for males and 90 percent for females. Disabled: Pub-2010 Non-Safety Disabled Retiree Amount-Weighted Mortality Table. All mortality tables listed above are projected generationally with the two-dimensional mortality improvement scale MP-2018. | Active and inactive: RP-2014 White Collar Employee Mortality Table, projected with the two-dimensional MP-2014 projection scale to 2029. Healthy: RP-2014 White Collar Healthy Annuitant Mortality Table, projected with the two-dimensional MP-2014 projection scale to 2029 with ages set forward one year. Disabled: RP-2014 Disabled Retiree Mortality Table, projected with the two-dimensional MP-2014 projection scale to 2029 and with ages then set back one year for males and set forward five years for females. |

UC-VERIP

The University's schedule of changes in net pension liability for UC-VERIP as of June 30 is:

| <i>(in thousands of dollars)</i> | 2019 | 2018 | 2017 | 2016 |
|--|-------------------|-------------------|-------------------|-------------------|
| TOTAL PENSION LIABILITY | | | | |
| Interest on the total pension liability | \$1,983 | \$2,042 | \$2,463 | \$2,533 |
| Difference between expected and actual experience | (79) | (436) | (189) | (650) |
| Changes of assumptions or other inputs | 714 | | | |
| Benefits paid, including refunds of employee contributions | (4,213) | (4,610) | (4,738) | (4,937) |
| Net change in total pension liability (surplus) | (1,595) | (3,004) | (2,464) | (3,054) |
| Total pension liability - beginning of year | 29,540 | 32,544 | 35,008 | 38,062 |
| Total pension liability - end of year | 27,945 | 29,540 | 32,544 | 35,008 |
| PLAN NET POSITION | | | | |
| Net investment income | 3,748 | 4,885 | 8,666 | (1,425) |
| Benefits paid, including refunds of employee contributions | (4,213) | (4,610) | (4,738) | (4,937) |
| Administrative expense | (5) | (5) | (6) | (7) |
| Net change in plan net position | (470) | 270 | 3,922 | (6,369) |
| Plan net position - beginning of year | 65,248 | 64,978 | 61,056 | 67,425 |
| Plan net position - end of year | 64,778 | 65,248 | 64,978 | 61,056 |
| Net pension surplus - end of year | (\$36,833) | (\$35,708) | (\$32,434) | (\$26,048) |
| <hr/> | | | | |
| <i>(in thousands of dollars)</i> | 2015 | 2014 | 2013 | 2012 |
| TOTAL PENSION LIABILITY | | | | |
| Interest on the total pension liability | \$2,704 | \$2,857 | \$3,052 | \$3,227 |
| Changes of benefit terms | | | | 11,186 |
| Difference between expected and actual experience | 242 | (436) | (241) | 172 |
| Changes of assumptions or other inputs | 1,837 | | | 1,268 |
| Benefits paid, including refunds of employee contributions | (5,081) | (5,169) | (5,278) | (5,369) |
| Net change in total pension liability (surplus) | (298) | (2,748) | (2,467) | 10,484 |
| Total pension liability - beginning of year | 38,360 | 41,108 | 43,575 | 33,091 |
| Total pension liability - end of year | 38,062 | 38,360 | 41,108 | 43,575 |
| PLAN NET POSITION | | | | |
| Net investment income | 2,550 | 11,035 | 7,144 | 90 |
| Benefits paid, including refunds of employee contributions | (5,081) | (5,169) | (5,278) | (5,369) |
| Administrative expense | (6) | (6) | (7) | (7) |
| Net change in plan net position | (2,537) | 5,860 | 1,859 | (5,286) |
| Plan net position - beginning of year | 69,962 | 64,102 | 62,243 | 67,529 |
| Plan net position - end of year | 67,425 | 69,962 | 64,102 | 62,243 |
| Net pension surplus - end of year | (\$29,363) | (\$31,602) | (\$22,994) | (\$18,668) |

The University's schedule of net pension asset for UC-VERIP as of June 30 is:

| <i>(in thousands of dollars)</i> | 2019 | 2018 | 2017 | 2016 |
|---|-------------------|-------------------|-------------------|-------------------|
| Total pension liability | \$27,945 | \$29,540 | \$32,544 | \$35,008 |
| Plan net position | 64,778 | 65,248 | 64,978 | 61,056 |
| Net pension surplus | (\$36,833) | (\$35,708) | (\$32,434) | (\$26,048) |
| Ratio of plan net position to total pension liability | 231.8% | 220.9% | 199.7% | 174.4% |

| <i>(in thousands of dollars)</i> | 2015 | 2014 | 2013 | 2012 |
|---|-------------------|-------------------|-------------------|-------------------|
| Total pension liability | \$38,062 | \$38,360 | \$41,108 | \$43,575 |
| Plan net position | 67,425 | 69,962 | 64,102 | 62,243 |
| Net pension surplus | (\$29,363) | (\$31,602) | (\$22,994) | (\$18,668) |
| Ratio of plan net position to total pension liability | 177.1% | 182.4% | 155.9% | 142.8% |

The University is not required to make contributions to the UC-VERIP due to its fully funded status.

CHRCO PENSION PLAN

The schedule of changes in the net pension liability for the CHRCO Pension Plan as of June 30:

| <i>(in thousands of dollars)</i> | 2019 | 2018 | 2017 | 2016 | 2015 | 2014 |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| TOTAL PENSION LIABILITY | | | | | | |
| Service cost | \$11,430 | \$11,304 | \$9,910 | \$10,410 | \$9,448 | \$9,274 |
| Interest on the total pension liability | 34,165 | 31,854 | 29,672 | 27,782 | 24,683 | 22,453 |
| Changes of benefit terms | | 92 | 33 | 24 | 40 | 142 |
| Difference between expected and actual experience | 5,214 | 3,609 | 2,442 | (3,690) | 762 | 2,487 |
| Changes of assumptions or other inputs | (9,540) | | | 3,613 | 33,105 | |
| Benefits paid, including refunds of employee contributions | (15,143) | (12,802) | (11,767) | (9,509) | (8,082) | (6,994) |
| Net change in total pension liability | 26,126 | 34,057 | 30,290 | 28,630 | 59,956 | 27,362 |
| Total pension liability - beginning of year | 484,209 | 450,152 | 419,862 | 391,232 | 331,276 | 303,914 |
| Total pension liability - end of year | 510,335 | 484,209 | 450,152 | 419,862 | 391,232 | 331,276 |
| PLAN NET POSITION | | | | | | |
| Contributions - employer | 31,200 | 33,600 | 28,800 | 24,000 | 18,000 | 14,500 |
| Net investment income | 25,203 | 33,269 | 41,256 | 214 | 11,797 | 48,704 |
| Benefits paid, including refunds of employee contributions | (15,143) | (12,802) | (11,767) | (9,509) | (8,082) | (6,994) |
| Administrative expense | (2,711) | (3,014) | (2,727) | (1,816) | (1,222) | (718) |
| Net change in plan net position | 38,549 | 51,053 | 55,562 | 12,889 | 20,493 | 55,492 |
| Total plan net position - beginning of year | 460,061 | 409,008 | 353,446 | 340,557 | 320,064 | 264,572 |
| Total plan net position - end of year | 498,610 | 460,061 | 409,008 | 353,446 | 340,557 | 320,064 |
| Net pension liability - end of year | \$11,725 | \$24,148 | \$41,144 | \$66,416 | \$50,675 | \$11,212 |

The schedule of net pension liability for the CHRCO Pension Plan as of June 30 is:

| <i>(in thousands of dollars)</i> | 2019 | 2018 | 2017 | 2016 | 2015 | 2014 |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Total pension liability | \$510,335 | \$484,209 | \$450,152 | \$419,862 | \$391,232 | \$331,276 |
| Plan net position | 498,610 | 460,061 | 409,008 | 353,446 | 340,557 | 320,064 |
| Net pension liability | \$11,725 | \$24,148 | \$41,144 | \$66,416 | \$50,675 | \$11,212 |
| Ratio of plan net position to total pension liability | 97.7% | 95.0% | 90.9% | 84.2% | 87.0% | 96.6% |
| Covered payroll | \$190,599 | \$187,639 | \$184,083 | \$165,672 | \$177,986 | \$175,189 |
| Net pension liability as a percentage of covered payroll | 6.2% | 12.9% | 22.4% | 40.1% | 28.5% | 6.4% |

The schedule of employer contributions for the CHRCO Pension Plan as of June 30 is:

| <i>(in thousands of dollars)</i> | 2019 | 2018 | 2017 | 2016 | 2015 | 2014 |
|---|-------------------|-------------------|-------------------|-------------------|------------------|----------------|
| Actuarially calculated employer contributions | \$17,870 | \$7,710 | \$5,642 | \$7,823 | \$12,239 | \$21,282 |
| Contributions in relation to the actuarially calculated employer contribution | 31,200 | 33,600 | 28,800 | 24,000 | 18,000 | 14,500 |
| Annual contribution deficiency (excess) | (\$13,330) | (\$25,890) | (\$23,158) | (\$16,177) | (\$5,761) | \$6,782 |
| Covered payroll | \$190,599 | \$187,639 | \$184,083 | \$165,672 | \$177,986 | \$175,189 |
| Actual contributions as a percentage of covered payroll | 16.4% | 17.9% | 15.6% | 14.5% | 10.1% | 8.3% |

NOTES TO SCHEDULE

Methods and assumptions used to determine contribution rates:

| | |
|--|--|
| Valuation date | Actuarially calculated contributions are calculated as of January 1 of the end of the fiscal year in which contributions are reported. |
| Actuarially determined contribution | The Plan is subject to funding requirements under ERISA. The contribution shown is the IRC Section 430 minimum contribution prior to offset by credit balances prorated for the number of months in the fiscal year. For the period January 1, 2014 to June 30, 2014, the amount shown does not reflect changes in the Highway and Transportation Funding Act of 2014 (HATFA). The contribution for July 1, 2014 and thereafter includes HATFA. |
| Contributions in relation to the actuarially determined contribution | The amount shown is equal to the contributions contributed to the Plan during the fiscal year shown. |
| Actuarial cost method | Unit Credit Actuarial Cost Method. |
| Amortization method | Level dollar, closed amortization. |
| Remaining amortization period | 7 years for changes in unfunded liabilities that occur each valuation date. |
| Asset valuation method | The actuarial value of assets is equal to the two-year average of Plan asset values as of the valuation date. The two-year average is the average of the two prior years' adjusted market value of assets and the current year's market value of assets. For this purpose, the prior years' market value of assets is adjusted to reflect benefit payments, administrative expenses, contributions and expected returns for the prior years. The resulting actuarial value of assets is adjusted to be within 10% of the market value of assets at the valuation date, as required by IRC Section 430. |
| Inflation | 3.0%. |
| Investment rate of return | 7.0%, net of pension plan investment expenses, including inflation. |
| Projected salary increases | 5.0%, including inflation through 2017, 4.0% afterward. |
| Cost-of-living adjustments | N/A. |
| Mortality | Adjusted RP-2014 Mortality Table for males or females with back up base table to 2006, as appropriate, with generational adjustments for mortality improvements based on Scale MP-2017. |

OCERS

The schedule of the University's proportionate share of OCERS' net pension liability is presented below:

(in thousands of dollars)

| AS OF JUNE 30 | PROPORTION OF THE NET PENSION LIABILITY | PROPORTIONATE SHARE OF NET PENSION LIABILITY | COVERED PAYROLL | PROPORTIONATE SHARE OF THE NET PENSION LIABILITY AS A PERCENTAGE OF ITS COVERED PAYROLL | PLAN FIDUCIARY NET POSITION AS A PERCENTAGE OF THE TOTAL PENSION LIABILITY |
|------------------|---|--|-----------------|---|--|
| 2019 | 0.3% | \$17,404 | | | 34.0% |
| 2018 | 0.3 | 13,822 | \$15 | 92,146.7% | 37.6 |
| 2017 | 0.3 | 18,057 | 44 | 41,038.6 | 34.5 |
| 2016 | 0.3 | 18,092 | 285 | 6,348.1 | 34.8 |

University Retiree Health Benefits Program

The schedule of changes in the net retiree health benefits liability includes multiyear trend information about whether the net retiree health benefits liability is increasing or decreasing over time. The University's net retiree health benefits liability includes liabilities for campuses, medical centers and LBNL. The University's schedule of changes in the net retiree health benefits liability as of, and for, the year ending June 30 is:

| <i>(in thousands of dollars)</i> | 2019 | 2018 | 2017 | 2016 | 2015 |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|
| TOTAL RETIREE HEALTH BENEFITS LIABILITY | | | | | |
| Service cost | \$815,654 | \$835,154 | \$1,004,644 | \$830,041 | \$702,935 |
| Interest on the total retiree health benefits liability | 758,521 | 716,777 | 646,279 | 735,294 | 719,853 |
| Changes of benefit terms | (29,315) | | | | |
| Difference between expected and actual experience | (1,219,146) | (1,173,742) | 101,280 | (1,948,111) | |
| Changes of assumptions or other inputs | 1,124,039 | (354,585) | (3,827,924) | 3,925,503 | 1,402,476 |
| Retiree contributions | 85,820 | 79,849 | 72,716 | 65,705 | 56,340 |
| Benefits paid | (512,824) | (504,745) | (467,846) | (451,166) | (435,189) |
| Net change in total retiree health benefits liability | 1,022,749 | (401,292) | (2,470,851) | 3,157,266 | 2,446,415 |
| Total retiree health benefits liability - beginning of year | 18,995,846 | 19,397,138 | 21,867,989 | 18,710,723 | 16,264,308 |
| Total retiree health benefits liability - end of year | 20,018,595 | 18,995,846 | 19,397,138 | 21,867,989 | 18,710,723 |
| PLAN NET POSITION | | | | | |
| University contributions | 451,437 | 453,988 | 432,953 | 410,945 | 367,416 |
| Retiree contributions | 85,820 | 79,849 | 72,716 | 65,705 | 56,340 |
| Net investment income | 3,195 | 1,634 | 606 | 155 | 41 |
| Insurance premiums | (512,824) | (504,745) | (467,846) | (451,166) | (435,189) |
| Other deductions | (4,300) | (3,859) | (4,256) | (3,743) | (3,147) |
| Net change in retiree health benefits net position | 23,328 | 26,867 | 34,173 | 21,896 | (14,539) |
| Retiree health benefits net position - beginning of year | 133,581 | 106,714 | 72,541 | 50,645 | 65,184 |
| Retiree health benefits net position - end of year | 156,909 | 133,581 | 106,714 | 72,541 | 50,645 |
| Net retiree health benefits liability - end of year | \$19,861,686 | \$18,862,265 | \$19,290,424 | \$21,795,448 | \$18,660,078 |

The University's schedule of net retiree health benefits liability as of June 30 is:

| <i>(in thousands of dollars)</i> | 2019 | 2018 | 2017 | 2016 | 2015 |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|
| Total retiree health benefits liability | \$20,018,595 | \$18,995,846 | \$19,397,138 | \$21,867,989 | \$18,710,723 |
| Retiree health benefits net position | 156,909 | 133,581 | 106,714 | 72,541 | 50,645 |
| Net retiree health benefits liability | \$19,861,686 | \$18,862,265 | \$19,290,424 | \$21,795,448 | \$18,660,078 |
| Ratio of retiree health benefits net position to total retiree health benefits liability | 0.8% | 0.7% | 0.6% | 0.3% | 0.3% |
| Covered payroll | \$12,717,122 | \$12,391,018 | \$11,495,997 | \$10,689,424 | \$10,047,570 |
| Net retiree health benefits liability as a percentage of covered payroll | 156.2% | 152.2% | 167.8% | 203.9% | 185.7% |

University of California Retiree Health Benefit Trust

The schedule of changes in the net retiree health benefits liability includes multiyear trend information about whether the trust assets are increasing or decreasing over time relative to the total retiree health benefits liability for the campuses and medical centers. UCRHBT's schedule of changes in net retiree health benefits liability as of, and for, the year ending June 30 is:

| <i>(in thousands of dollars)</i> | 2019 | 2018 | 2017 | 2016 | 2015 |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|
| TOTAL RETIREE HEALTH BENEFIT LIABILITY | | | | | |
| Service cost | \$798,249 | \$816,483 | \$981,745 | \$806,817 | \$683,320 |
| Interest on the total retiree health benefits liability | 734,693 | 694,562 | 625,947 | 711,365 | 695,999 |
| Changes of benefit terms | (28,401) | | | | |
| Difference between expected and actual experience | (1,175,284) | (1,149,032) | 95,254 | (1,875,009) | |
| Changes of assumptions or other inputs | 1,091,609 | (353,516) | (3,707,921) | 3,798,113 | 1,358,761 |
| Retiree contributions | 82,710 | 76,873 | 69,968 | 65,705 | 56,340 |
| Benefits paid | (490,615) | (483,479) | (447,604) | (433,849) | (418,244) |
| Net change in total retiree health benefits liability | 1,012,961 | (398,109) | (2,382,611) | 3,073,142 | 2,376,176 |
| Total retiree health benefits liability - beginning of year | 18,388,092 | 18,786,201 | 21,168,812 | 18,095,670 | 15,719,494 |
| Total retiree health benefits liability - end of year | 19,401,053 | 18,388,092 | 18,786,201 | 21,168,812 | 18,095,670 |
| PLAN NET POSITION | | | | | |
| University contributions | 432,338 | 435,698 | 415,459 | 393,628 | 350,471 |
| Retiree contributions | 82,710 | 76,873 | 69,968 | 65,705 | 56,340 |
| Net investment income | 3,195 | 1,634 | 606 | 155 | 41 |
| Insurance premiums | (490,615) | (483,479) | (447,604) | (433,849) | (418,244) |
| Other deductions | (4,300) | (3,859) | (4,256) | (3,743) | (3,147) |
| Net change in UCRHBT net position | 23,328 | 26,867 | 34,173 | 21,896 | (14,539) |
| UCRHBT net position - beginning of year | 133,581 | 106,714 | 72,541 | 50,645 | 65,184 |
| UCRHBT net position - end of year | 156,909 | 133,581 | 106,714 | 72,541 | 50,645 |
| Net retiree health benefits liability - end of year | \$19,244,144 | \$18,254,511 | \$18,679,487 | \$21,096,271 | \$18,045,025 |

UCRHBT's schedule of net retiree health benefits liability as of June 30 is:

| <i>(in thousands of dollars)</i> | 2019 | 2018 | 2017 | 2016 | 2015 |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|
| Total retiree health benefits liability | \$19,401,053 | \$18,388,092 | \$18,786,201 | \$21,168,812 | \$18,095,670 |
| UCRHBT net position | 156,909 | 133,581 | 106,714 | 72,541 | 50,645 |
| Net retiree health benefits liability | \$19,244,144 | \$18,254,511 | \$18,679,487 | \$21,096,271 | \$18,045,025 |
| Ratio of UCRHBT net position to total retiree health benefits liability | 0.8% | 0.7% | 0.6% | 0.3% | 0.3% |
| Covered payroll | \$12,381,741 | \$12,087,000 | \$11,196,485 | \$10,396,827 | \$9,758,795 |
| Net retiree health benefits liability as a percentage of covered payroll | 155.4% | 151.0% | 166.8% | 202.9% | 184.9% |

UNIVERSITY OF CALIFORNIA
 Summary Schedule of Expenditures of Federal Awards
 For the Fiscal Year Ended June 30, 2019

| | Total Expenditures |
|---|------------------------|
| | <u>2019</u> |
| Summary of Expenditures | |
| STUDENT FINANCIAL ASSISTANCE CLUSTER | \$1,839,660,025 |
| DEPARTMENT OF AGRICULTURE - COOPERATIVE EXTENSION CLUSTER | |
| Federal Agency Direct Awards Expended | 11,393,342 |
| Pass-Through/Partial Pass-Through Funds Expended | <u>114,779</u> |
| Total Department of Agriculture - Cooperative Extension Cluster | 11,508,121 |
| RESEARCH AND DEVELOPMENT CLUSTER | |
| Federal Agency Direct Awards Expended | 3,301,008,697 |
| Pass-Through/Partial Pass-Through Funds Expended | <u>481,189,401</u> |
| Total Research and Development Cluster | 3,782,198,098 |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES - TITLE IV FOSTER CARE PROGRAM CLUSTER | |
| Pass-Through and Partial Pass-Through Funds Expended | <u>31,280,392</u> |
| Total Department of Health and Human Services - Title IV Foster Care Program Cluster | 31,280,392 |
| DEPARTMENT OF AGRICULTURE - SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM (SNAP) CLUSTER | |
| Pass-Through and Partial Pass-Through Funds Expended | <u>16,008,053</u> |
| Total Department of Agriculture - Supplemental Nutrition Assistance Program Cluster | 16,008,053 |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES - HEALTH CENTER PROGRAM CLUSTER | |
| Federal Agency Direct Awards Expended | 1,576,758 |
| Pass-Through and Partial Pass-Through Funds Expended | <u>456,693</u> |
| Total Department of Health and Human Services - Health Center Program Cluster | 2,033,451 |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES - MEDICAID CLUSTER | |
| Pass-Through and Partial Pass-Through Funds Expended | <u>5,223,562</u> |
| Total Department of Health and Human Services - Medicaid Cluster | 5,223,562 |
| DEPARTMENT OF INTERIOR - FISH AND WILDLIFE CLUSTER | |
| Pass-Through and Partial Pass-Through Funds Expended | <u>198,799</u> |
| Total Department of Interior - Fish and Wildlife Cluster | 198,799 |
| DEPARTMENT OF TRANSPORTATION - HIGHWAY PLANNING AND CONSTRUCTIONS CLUSTER | |
| Pass-Through and Partial Pass-Through Funds Expended | <u>95,510</u> |
| Total Department of Transportation - Highway Planning and Construction Cluster | 95,510 |
| DEPARTMENT OF COMMERCE - ECONOMIC DEVELOPMENT CLUSTER | |
| Federal Agency Direct Awards Expended | <u>176,106</u> |
| Total Department of Commerce - Economic Development Cluster | 176,106 |
| DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT - HOPE VI CLUSTER | |
| Pass-Through and Partial Pass-Through Funds Expended | <u>5,479</u> |
| Total Department of Housing and Urban Development - Hope VI Cluster | 5,479 |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES - 477 CLUSTER | |
| Pass-Through and Partial Pass-Through Funds Expended | <u>4,291,799</u> |
| Total Department of Health and Human Services - 477 Cluster | 4,291,799 |
| DEPARTMENT OF LABOR - WIOA CLUSTER | |
| Pass-Through and Partial Pass-Through Funds Expended | <u>-203,888</u> |
| Total Department of Labor - WIOA Cluster | -203,888 |

UNIVERSITY OF CALIFORNIA
 Summary Schedule of Expenditures of Federal Awards
 For the Fiscal Year Ended June 30, 2019

| | Total Expenditures |
|--|-------------------------------|
| | 2019 |
| Summary of Expenditures | |
| DEPARTMENT OF TRANSPORTATION - FEDERAL TRANSIT CLUSTER | |
| Pass-Through and Partial Pass-Through Funds Expended | 2,222,727 |
| Total Department of Transportation - Federal Transit Cluster | <u>2,222,727</u> |
| DEPARTMENT OF TRANSPORTATION- HIGHWAY SAFETY CLUSTER | |
| Pass-Through and Partial Pass-Through Funds Expended | 1,190,633 |
| Total Department of Transportation - Highway Safety Cluster | <u>1,190,633</u> |
| DEPARTMENT OF EDUCATION - TRIO CLUSTER | |
| Federal Agency Direct Awards Expended | 12,993,182 |
| Pass-Through and Partial Pass-Through Funds Expended | 2,982 |
| Total Department of Education - TRIO Cluster | <u>12,996,164</u> |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES - AGING CLUSTER | |
| Pass-Through and Partial Pass-Through Funds Expended | 36,493 |
| Total Department of Health and Human Services - Aging Cluster | <u>36,493</u> |
| OTHER PROGRAMS | |
| Federal Agency Direct Awards Expended | 111,671,471 |
| Pass-Through/Partial Pass-Through Funds Expended | 47,248,852 |
| Total Other Programs | <u>158,920,323</u> |
| Total Federal Awards Expended | <u><u>\$5,867,841,847</u></u> |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | |
|--|---|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | Passed through to Subrecipients |
| STUDENT FINANCIAL ASSISTANCE | | | | | | |
| DEPARTMENT OF EDUCATION | Direct | | | | | |
| | FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITIES GRANT | VARIOUS | 84 | 007 | \$12,157,178 | 12,157,178 |
| | Direct | | | | | |
| | FEDERAL WORK-STUDY PROGRAM | VARIOUS | 84 | 033 | 16,723,112 | 16,723,112 |
| | Direct | | | | | |
| | FEDERAL PERKINS LOAN PROGRAM BEGINNING BALANCE | VARIOUS | 84 | 038 | 190,367,020 | |
| | FEDERAL PERKINS LOAN PROGRAM NEW LOAN | VARIOUS | 84 | 038 | | 0 |
| | FEDERAL PERKINS LOAN PROGRAM ADMINISTRATIVE COST ALLOWANCE | VARIOUS | 84 | 038 | | 0 |
| | | | | | 190,367,020 | |
| | Direct | | | | | |
| | FEDERAL PELL GRANTS | VARIOUS | 84 | 063 | 440,574,573 | 440,574,573 |
| | Direct | | | | | |
| | FEDERAL DIRECT STUDENT LOAN PROGRAM | VARIOUS | 84 | 268 | 1,105,933,397 | 1,105,933,397 |
| | Direct | | | | | |
| | TEACHER EDUCATION ASSISTANCE FOR COLLEGE AND HIGHER EDUCATION GRANTS (TEACH) | VARIOUS | 84 | 379 | | 174,689 |
| | | | | | | 174,689 |
| DEPARTMENT OF EDUCATION Total | | | | | | 1,765,929,969 |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | Direct | | | | | |
| | NURSING FACULTY LOAN PROGRAM BEGINNING BALANCE | VARIOUS | 93 | 264 | 812,361 | |
| | NURSING FACULTY LOAN PROGRAM NEW LOAN | VARIOUS | 93 | 264 | | 0 |
| | | | | | 812,361 | |
| | Direct | | | | | |
| | HLTH PROFESSIONS STUDENT LOANS/LOANS FOR DISADVANTAGED STUDENTS/PRIMARY CARE LOAN BEG BAL | VARIOUS | 93 | 342 | 58,761,681 | |
| | HLTH PROFESSIONS STUDENT LOANS/LOANS FOR DISADVANTAGED STUDENTS/PRIMARY CARE-NEW LOAN | VARIOUS | 93 | 342 | 11,087,278 | |
| | | | | | 69,848,959 | |
| | Direct | | | | | |
| | NURSING STUDENT LOAN PROGRAM BEGINNING BALANCE | VARIOUS | 93 | 364 | 1,398,829 | |
| | NURSING STUDENT LOAN PROGRAM NEW LOAN | VARIOUS | 93 | 364 | 277,309 | |
| | | | | | 1,676,138 | |
| | Direct | | | | | |
| | ARRA-NURSING FACULTY LOAN PROGRAM BEGINNING BALANCE | VARIOUS | 93 | 408 | 92,598 | |
| | ARRA-NURSING FACULTY LOAN PROGRAM NEW LOAN | VARIOUS | 93 | 408 | | 0 |
| | | | | | 92,598 | |
| | Direct | | | | | |
| | SCHOLARSHIPS FOR STUDENTS FROM DISADVANTAGED BACKGROUND | VARIOUS | 93 | 925 | 1,300,000 | |
| | | | | | 1,300,000 | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES Total | | | | | | 73,730,056 |
| STUDENT FINANCIAL ASSISTANCE Total | | | | | | 1,839,660,025 |
| DEPARTMENT OF AGRICULTURE - COOPERATIVE EXTENSION | | | | | | |
| DEPARTMENT OF AGRICULTURE | Direct | | | | | |
| | DEPARTMENT OF AGRICULTURE | VARIOUS | 10 | 203 | 48,539 | 48,539 |
| | Direct | | | | | |
| | DEPARTMENT OF AGRICULTURE | VARIOUS | 10 | 202 | 20,971 | 20,971 |
| | Passthrough/Partial Passthrough | | | | | |
| | UNIVERSITY OF KENTUCKY/UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION | 201701416 | 10 | 203 | 1,214 | 1,214 |
| | Direct | | | | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---------------------------------------|--|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF AGRICULTURE | DEPARTMENT OF AGRICULTURE | VARIOUS | 10 | 500 | 11,323,832 | \$22,500 |
| | Passthrough/Partial Passthrough | | | | | |
| | KANSAS STATE UNIVERSITY | 22C17 | 10 | 500 | 32,109 | |
| | KANSAS STATE UNIVERSITY | 31A16 | 10 | 500 | -5,225 | |
| | KANSAS STATE UNIVERSITY | 88A22 | 10 | 500 | 29,026 | |
| | WASHINGTON STATE UNIVERSITY | 2015-49200-24227 | 10 | 500 | 23,313 | |
| | WASHINGTON STATE UNIVERSITY | 80B82 | 10 | 500 | 33,542 | |
| | WESTERN CENTER FOR RISK MANAGEMENT EDUCATION | 108815_G003870 | 10 | 500 | 800 | |
| | | | | | 11,437,397 | 22,500 |
| | DEPARTMENT OF AGRICULTURE Total | | | | 11,508,121 | 22,500 |
| | DEPARTMENT OF AGRICULTURE - COOPERATIVE EXTENSION Total | | | | 11,508,121 | 22,500 |
| RESEARCH AND DEVELOPMENT | | | | | | |
| DEPARTMENT OF AGRICULTURE | | | | | | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 73A96 | 10 | 001 | -39 | |
| | CALIFORNIA STRAWBERRY NURSERYMEN ASSOCIATION | 201503945 | 10 | 001 | 23,121 | |
| | NATIONAL ACADEMY OF SCIENCES | 2000006101 | 10 | 001 | 22,028 | |
| | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | ARS NACA 58-6080-7-009 | 10 | 001 | 25,167 | |
| | VENTUREWELL | DAA3-19-65152-1 | 10 | 001 | 4,950 | |
| | | | | | 75,226 | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 17-0413-001-SF | 10 | 025 | 7,481 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 17-0426-001-SF | 10 | 025 | 1,004 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 009982 | 10 | 025 | 47,196 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 18-0297-003-SF | 10 | 025 | 27,000 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 18-0326-001-SF | 10 | 025 | 52,889 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 18-0430-001-SF | 10 | 025 | 14,539 | |
| | CITRUS RESEARCH PROGRAM | 007880 | 10 | 025 | -677 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE/MISCELLANEOUS AGENCIES | AP18PPQS&T00C159 | 10 | 025 | 18,248 | |
| | | | | | 167,680 | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALAVERAS UNIFIED SCHOOL DISTRICT | 201603165 | 10 | 170 | 18,285 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 008618 | 10 | 170 | 55,129 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 008684 | 10 | 170 | 287,245 | 82,401 |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 008685 | 10 | 170 | 27,392 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 008687 | 10 | 170 | 73,391 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 201502786-01 | 10 | 170 | -5,279 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 2016-160036 | 10 | 170 | 126,733 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 24B08 | 10 | 170 | 13,260 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 24B67 | 10 | 170 | 80,894 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 32A39 | 10 | 170 | -2,832 | -2,656 |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 38A04 | 10 | 170 | 8,086 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 38A06 | 10 | 170 | 7,710 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 84743 | 10 | 170 | -6 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 88A38 | 10 | 170 | 47,339 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 88A41 | 10 | 170 | 19,761 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 88A42 | 10 | 170 | 1,744 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 88A52 | 10 | 170 | 61,924 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 88A84 | 10 | 170 | 60,533 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | A17-0306-001 | 10 | 170 | 77,281 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | SA16-3202-UCB | 10 | 170 | 43,084 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | SCB15026 | 10 | 170 | 239 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | SCB15033 | 10 | 170 | -1,362 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | SCB15035 | 10 | 170 | -75 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | SCB15037 | 10 | 170 | 16,160 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | SCB15040 | 10 | 170 | 5,673 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | SCB15050 | 10 | 170 | -1,959 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | SCB15058 | 10 | 170 | 28 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | SCB16015 | 10 | 170 | 34,149 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | SCB16022 | 10 | 170 | 50,866 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | SCB16032 | 10 | 170 | 36,262 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | SCB16035 | 10 | 170 | 113,644 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | SCB16036 | 10 | 170 | 247,908 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | SCB16041 | 10 | 170 | 44,079 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | SCB16050 | 10 | 170 | 147,784 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | SCB16054 | 10 | 170 | 98,170 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | SCB16066 | 10 | 170 | 83,507 | 18,787 |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 17-0275-034-SC | 10 | 170 | 47,382 | 6,542 |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---------------------------------------|--|---|----------------|-----------|----------------------|---------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF AGRICULTURE | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 17-0275-036-SC | 10 | 170 | 68,158 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 17-0275-047-SC | 10 | 170 | 153,785 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 17027502-SC | 10 | 170 | 121,574 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 1702750325C | 10 | 170 | 155,349 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 32B40 | 10 | 170 | 30,260 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 37A26 | 10 | 170 | 150 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 72B71 | 10 | 170 | 75,883 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 73B67 | 10 | 170 | 96,422 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 74B02 | 10 | 170 | 96,115 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 74B03 | 10 | 170 | 119,488 | 13,139 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 74B26 | 10 | 170 | 127,905 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 75B23 | 10 | 170 | 218,738 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | A18-0352-001 | 10 | 170 | 89,957 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | AM170100XXXXG011 | 10 | 170 | 188,455 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | SC16053C | 10 | 170 | 13,192 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | SCB15009 | 10 | 170 | 687 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | SCB16037 | 10 | 170 | 21,884 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 009926 | 10 | 170 | 211,654 | 43,249 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 010307 | 10 | 170 | 43,481 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 010360 | 10 | 170 | 1,847 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 010404 | 10 | 170 | 50,321 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 010498 | 10 | 170 | 13,672 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 16-0555-051-SC | 10 | 170 | 55,911 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 18-0001-019-SC | 10 | 170 | 22,989 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 18-0001-026-SC | 10 | 170 | 7,470 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 18-0001-027-SC | 10 | 170 | 45,345 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 18-0001-028-SC | 10 | 170 | 29,490 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 18-0001-030-SC | 10 | 170 | 13,130 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 18-0001-044-SC | 10 | 170 | 2,234 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 18-0001-053-SC | 10 | 170 | 36,742 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 18-0001-056-SC | 10 | 170 | 43,133 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 18-0001-057-SC | 10 | 170 | 43,940 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 26C79 | 10 | 170 | 62,520 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 26C84 | 10 | 170 | 62,822 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 26C85 | 10 | 170 | 75,213 | 26,685 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 26C86 | 10 | 170 | 42,650 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 26C99 | 10 | 170 | 10,961 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 27C00 | 10 | 170 | 61,759 | 21,043 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 27C13 | 10 | 170 | 29,442 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 27C17 | 10 | 170 | 11,328 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 27C34 | 10 | 170 | 145,613 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 27C35 | 10 | 170 | 20,053 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 27C59 | 10 | 170 | 23,141 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 28C39 | 10 | 170 | 8,335 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 29C35 | 10 | 170 | 8,758 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 73B07 | 10 | 170 | 108,196 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | AM180100XXXXG003 | 10 | 170 | 1,892 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | SCB16046 | 10 | 170 | 179,811 | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | Y18 - 4017 | 10 | 170 | 1,084 | | |
| | CENTER FOR PRODUCE SAFETY | 2016CPS02 | 10 | 170 | -120 | | |
| | CENTER FOR PRODUCE SAFETY | 21B07 | 10 | 170 | 48,635 | | |
| | CENTER FOR PRODUCE SAFETY | SCB16069 | 10 | 170 | 43,382 | | |
| | CENTER FOR PRODUCE SAFETY | 2018CPS07 | 10 | 170 | 141,682 | | |
| | CENTER FOR PRODUCE SAFETY | USDA-AMS-TM-SCBGP-G-17-003 | 10 | 170 | 118,976 | | |
| | CENTER FOR PRODUCE SAFETY | 18-0275-077-SC | 10 | 170 | 55,564 | | |
| | CORNELL UNIVERSITY | 2018CPS04 | 10 | 170 | 54,975 | | |
| | RIVERSIDE UNIFIED SCHOOL DISTRICT | 88A55 | 10 | 170 | 94,041 | | |
| | UNIVERSITY CORPORATION AT MONTEREY BAY | 008739 | 10 | 170 | 91,820 | | |
| | UNIVERSITY CORPORATION AT MONTEREY BAY | 86B78 | 10 | 170 | 53,510 | | |
| | WASHINGTON STATE UNIVERSITY | 16SCBGP0035 | 10 | 170 | 46,521 | | |
| | TOGETHER WE CAN INC | SA15-2865-02 | 10 | 170 | 4,202 | | |
| | BACHAND & ASSOCIATES | 2030.02-1.00 | 10 | 170 | 435 | | |
| | TEXAS AGRILIFE RESEARCH | TX-SCM-17-04 | 10 | 170 | 24,624 | | |
| | | | | | 5,755,311 | 209,191 | |
| | | Passthrough/Partial Passthrough | | | | | |
| | | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 009374 | 10 | 171 | 185,360 | |
| | | | | | | 185,360 | |
| | | Passthrough/Partial Passthrough | | | | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---------------------------------------|--|---|------------------|-----------|----------------------|---------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF AGRICULTURE | COLORADO STATE UNIVERSITY | 73889 | 10 | 200 | 20,047 | | |
| | COLORADO STATE UNIVERSITY | 75855 | 10 | 200 | 12,635 | | |
| | SAN BERNARDINO COMMUNITY COLLEGE DISTRICT | 86661 | 10 | 200 | 60,435 | | |
| | UNIVERSITY OF FLORIDA | 008150 | 10 | 200 | 121,760 | | |
| | UNIVERSITY OF FLORIDA | 008151 | 10 | 200 | 3,545 | | |
| | UNIVERSITY OF WASHINGTON | UWSC8213 | 10 | 200 | 4,511 | | |
| | UNIVERSITY OF WASHINGTON | UWSC8839 | 10 | 200 | 5,980 | | |
| | UNIVERSITY OF WASHINGTON | UWSC10035 | 10 | 200 | 30,002 | 11,503 | |
| | UNIVERSITY OF WASHINGTON | UWSC10036 | 10 | 200 | 11,181 | | |
| | UNIVERSITY OF WASHINGTON | UWSC10037 | 10 | 200 | 1,383 | | |
| | UNIVERSITY OF WASHINGTON | UWSC9733 | 10 | 200 | 4,968 | | |
| | UNIVERSITY OF WASHINGTON | UWSC10994 | 10 | 200 | 36,449 | | |
| | UNIVERSITY OF WASHINGTON | UWSC10997 | 10 | 200 | 9,747 | | |
| | UNIVERSITY OF WASHINGTON | UWSC10998 | 10 | 200 | 1,456 | | |
| | RESOURCES FOR THE FUTURE, INC. | 201700337 | 10 | 200 | 56,320 | | |
| | | | | | 380,418 | 11,503 | |
| | Passthrough/Partial Passthrough | TINY FARMS INC. | A19-1936 | 10 | 212 | 32,291 | |
| | | | | | 32,291 | | |
| | Passthrough/Partial Passthrough | CALIFORNIA STATE UNIVERSITY SACRAMENTO/UNIVERSITY ENTERPRISES, INC. | 2017-38640-26913 | 10 | 215 | 39,450 | |
| | | MONTANA STATE UNIVERSITY | 35C03 | 10 | 215 | 7,879 | |
| | | UTAH STATE UNIVERSITY | 20163864025383 | 10 | 215 | 13,107 | |
| | | UTAH STATE UNIVERSITY | 20183864023779 | 10 | 215 | 16,847 | |
| | | UTAH STATE UNIVERSITY | 200592-446 | 10 | 215 | 11,743 | |
| | | UTAH STATE UNIVERSITY | 200592-448 | 10 | 215 | 24,372 | |
| | | UTAH STATE UNIVERSITY | 201207-579 | 10 | 215 | 17,057 | |
| | | UTAH STATE UNIVERSITY | 201207-596 | 10 | 215 | 13,935 | |
| | | UTAH STATE UNIVERSITY | 82B78 | 10 | 215 | 5,759 | |
| | | NEW MEXICO STATE UNIVERSITY | Q01786 | 10 | 215 | 21,833 | |
| | | | | | | 171,982 | |
| Passthrough/Partial Passthrough | CORNELL UNIVERSITY | 23A04 | 10 | 217 | 15,502 | | |
| | UNIVERSITY OF KENTUCKY/UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION | 320000126618052 | 10 | 217 | 72,781 | | |
| | | | | | 88,283 | | |
| Passthrough/Partial Passthrough | CALIFORNIA STATE UNIVERSITY FULLERTON/CSU FULLERTON AUXILIARY SERVICES | S-6286-UCSB | 10 | 223 | 7,594 | | |
| | | | | | 7,594 | | |
| Passthrough/Partial Passthrough | NORTHWEST INDIAN COLLEGE | A18-0315-001 | 10 | 227 | 33,862 | | |
| | NORTHWEST INDIAN COLLEGE | A19-0376-001 | 10 | 227 | 21 | | |
| | | | | | 33,883 | | |
| Passthrough/Partial Passthrough | UNIVERSITY OF MARYLAND | A16-0574-003 | 10 | 250 | 55,622 | | |
| | | | | | 55,622 | | |
| Passthrough/Partial Passthrough | TUFTS UNIVERSITY | 101383-00001-BITLER | 10 | 253 | 18,280 | | |
| | TUFTS UNIVERSITY | 101383-00001-PAGE | 10 | 253 | 30,973 | | |
| | | | | | 49,253 | | |
| Passthrough/Partial Passthrough | UNIVERSITY OF GEORGIA | RC293636/S000870 | 10 | 307 | -8,542 | | |
| | UNIVERSITY OF GEORGIA | 36A32 | 10 | 307 | 1,232 | | |
| | UNIVERSITY OF GEORGIA | SUB00001850 | 10 | 307 | 648 | | |
| | WASHINGTON STATE UNIVERSITY | 007902 | 10 | 307 | 117,734 | | |
| | | | | | 111,072 | | |
| Passthrough/Partial Passthrough | UNIVERSITY OF GEORGIA | RR644-418/5054566 | 10 | 308 | 45,849 | | |
| | | | | | 45,849 | | |
| Passthrough/Partial Passthrough | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | SCB15046 | 10 | 309 | 3,506 | 3,506 | |

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For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---------------------------------------|--|--|------------------|-----------|----------------------|------------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF AGRICULTURE | CLEMSON UNIVERSITY | 20145118122372 | 10 | 309 | 236,592 | | |
| | CLEMSON UNIVERSITY | 82094 | 10 | 309 | 21,294 | | |
| | CORNELL UNIVERSITY | 8198010922 | 10 | 309 | 218,740 | | |
| | CORNELL UNIVERSITY | 72A94 | 10 | 309 | -9,768 | | |
| | KANSAS STATE UNIVERSITY | S15193 | 10 | 309 | 269,450 | | |
| | MICHIGAN STATE UNIVERSITY | 2014-51181-22378 | 10 | 309 | 59,193 | | |
| | NEW MEXICO CONSORTIUM, INC. | 008045 | 10 | 309 | 183,746 | 120,285 | |
| | NORTH CAROLINA STATE UNIVERSITY | 008663 | 10 | 309 | 69,163 | | |
| | NORTH CAROLINA STATE UNIVERSITY | 2016022807 | 10 | 309 | 206,476 | | |
| | NORTH CAROLINA STATE UNIVERSITY | 2017-0398-11 | 10 | 309 | 137,976 | | |
| | NORTH CAROLINA STATE UNIVERSITY | 24B87 | 10 | 309 | 17,618 | | |
| | NORTH CAROLINA STATE UNIVERSITY | 89167 | 10 | 309 | 25,448 | | |
| | NORTH CAROLINA STATE UNIVERSITY | 20B88 | 10 | 309 | 27,834 | | |
| | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | 22B67 | 10 | 309 | 30,499 | | |
| | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | 6069PP2016NINO | 10 | 309 | 30,287 | | |
| | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | 0849-PP2018-NINO | 10 | 309 | 30,800 | | |
| | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | 29C62 | 10 | 309 | 131,605 | | |
| | TEXAS A&M RESEARCH FOUNDATION | 72B72 | 10 | 309 | 4,278 | | |
| | TEXAS A&M UNIVERSITY - COLLEGE STATION | M1803482 | 10 | 309 | 46,435 | | |
| | UNIVERSITY OF FLORIDA | UFDSP00011008 | 10 | 309 | 160,875 | | |
| | UNIVERSITY OF FLORIDA | 009448 | 10 | 309 | 189,793 | | |
| | UNIVERSITY OF FLORIDA | UFDSP00011788 | 10 | 309 | 60,142 | | |
| | UNIVERSITY OF FLORIDA | 009522 | 10 | 309 | 132,793 | | |
| | WASHINGTON STATE UNIVERSITY | 133336-G003925 | 10 | 309 | 29,788 | | |
| | WASHINGTON STATE UNIVERSITY | 24C25 | 10 | 309 | 9,934 | | |
| | | | | | 2,324,497 | 123,791 | |
| | | Passthrough/Partial Passthrough | | | | | |
| | | COLORADO STATE UNIVERSITY | 2016-68007-25006 | 10 | 310 | 54,660 | |
| | | IOWA STATE UNIVERSITY | 416-41-B7A | 10 | 310 | 17,334 | |
| | | KANSAS STATE UNIVERSITY | S16114 | 10 | 310 | 15,303 | |
| | | KANSAS STATE UNIVERSITY | 20166800725066 | 10 | 310 | 26,317 | |
| | | MICHIGAN STATE UNIVERSITY | 74A11 | 10 | 310 | 99,086 | |
| | | OHIO STATE UNIVERSITY | 20186800327466 | 10 | 310 | 38,327 | |
| | | OREGON STATE UNIVERSITY | C0486A-B | 10 | 310 | 8,379 | |
| | | OREGON STATE UNIVERSITY | 2018-67023-27690 | 10 | 310 | 9,135 | |
| | | PURDUE UNIVERSITY | 20146701721831 | 10 | 310 | 1,334 | |
| | | RECOMBINETICS, INC | 201403217 | 10 | 310 | 73,929 | |
| | | TEXAS A&M RESEARCH FOUNDATION | M1701755-CYC1 | 10 | 310 | 21,921 | |
| | | TEXAS A&M UNIVERSITY - COLLEGE STATION | 009234 | 10 | 310 | 33,538 | |
| | | UNIVERSITY OF COLORADO BOULDER | 82B20 | 10 | 310 | 9,256 | |
| | UNIVERSITY OF FLORIDA | 009625 | 10 | 310 | 114,998 | | |
| | UNIVERSITY OF GEORGIA | 29A08 | 10 | 310 | 36,066 | | |
| | UNIVERSITY OF ILLINOIS | 007414 | 10 | 310 | 30,928 | | |
| | UNIVERSITY OF MARYLAND | 32470Z5768002 | 10 | 310 | 512 | | |
| | UNIVERSITY OF MASSACHUSETTS AMHERST | 16009070A00 | 10 | 310 | 2,343 | | |
| | UNIVERSITY OF MASSACHUSETTS AMHERST | 009822 | 10 | 310 | 52,083 | | |
| | UNIVERSITY OF MINNESOTA | H005365301 | 10 | 310 | 51,549 | | |
| | UNIVERSITY OF TENNESSEE | 009776 | 10 | 310 | 111,428 | | |
| | UNIVERSITY OF VERMONT | 24B85 | 10 | 310 | 17,467 | | |
| | UNIVERSITY OF VERMONT | 2018-68008-28091 | 10 | 310 | 9,630 | | |
| | WASHINGTON STATE UNIVERSITY | 123694G003751 | 10 | 310 | 58,077 | | |
| | UNIVERSITY OF NORTH CAROLINA AT GREENSBORO | 009009 | 10 | 310 | 74,358 | | |
| | | | | | 967,957 | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | OKLAHOMA STATE UNIVERSITY | 2568930.UCM1 | 10 | 320 | 9,146 | | |
| | OREGON STATE UNIVERSITY | 2014-385022-22598 | 10 | 320 | 133,464 | | |
| | | | | | 142,611 | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | UNIVERSITY CORPORATION AT MONTEREY BAY | 21B68 | 10 | 326 | 28,150 | | |
| | | | | | 28,150 | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | CORNELL UNIVERSITY | 2017-70020-27259 | 10 | 328 | 26,091 | | |
| | OREGON STATE UNIVERSITY | C0494AB | 10 | 328 | 39,417 | | |
| | OREGON STATE UNIVERSITY | C0537A-C | 10 | 328 | 1,311 | | |
| | | | | | 66,819 | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---------------------------------------|--|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF AGRICULTURE | Passthrough/Partial Passthrough UNIVERSITY OF ARIZONA | 20177000627273 | 10 | 329 | 5,346 5,346 | |
| | Passthrough/Partial Passthrough UTAH STATE UNIVERSITY | 200612-00001-345 | 10 | 330 | 19,512 | |
| | WASHINGTON STATE UNIVERSITY | 2016-70005-25650 | 10 | 330 | 45,000 64,512 | |
| | Passthrough/Partial Passthrough CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 76B33 | 10 | 331 | 120,284 120,284 | |
| | Passthrough/Partial Passthrough HELUNA HEALTH | 21C80 | 10 | 557 | 18,219 | |
| | HELUNA HEALTH | 24C75 | 10 | 557 | 73,699 91,918 | |
| | Passthrough/Partial Passthrough WESTAT | 71B60 | 10 | 585 | 10,760 | |
| | WESTAT | 30944 | 10 | 585 | 19 10,779 | |
| | Passthrough/Partial Passthrough CALIFORNIA CITRUS QUALITY COUNCIL | 201700468 | 10 | 604 | 102,752 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 008095 | 10 | 604 | -2,786 | |
| | CITRUS RESEARCH PROGRAM | 009795 | 10 | 604 | 165,402 | |
| | CITRUS RESEARCH PROGRAM | 009797 | 10 | 604 | 26,326 | |
| | CITRUS RESEARCH PROGRAM | 009798 | 10 | 604 | 144,780 | |
| | CITRUS RESEARCH PROGRAM | 010622 | 10 | 604 | 73,880 | |
| | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | 6133-TASCGMRL-CA | 10 | 604 | 21,555 | 15,450 |
| | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | 25C18 | 10 | 604 | 9,172 | |
| | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | TASC 2018-08 | 10 | 604 | 24,750 565,830 | 22,500 37,950 |
| | Passthrough/Partial Passthrough CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | SCB15051 | 10 | 612 | -2,452 -2,452 | |
| | Passthrough/Partial Passthrough TREEPEOPLE INC | 0002 | 10 | 664 | 33,517 33,517 | |
| | Passthrough/Partial Passthrough MONTANA STATE UNIVERSITY | G114-19-W5957 | 10 | 680 | 6,931 6,931 | |
| | Passthrough/Partial Passthrough NATURE CONSERVANCY | 23C89 | 10 | 912 | 15,151 15,151 | |
| | Direct | | | | | |
| | DEPARTMENT OF AGRICULTURE | VARIOUS | 10 | RD | 56,838,445 | 8,765,268 |
| | Passthrough/Partial Passthrough CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | SCB16045 | 10 | RD | 140,000 | 5,181 |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 17-0218-000-SA | 10 | RD | 59,355 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 21B90 | 10 | RD | 38,846 | |
| | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 18892 | 10 | RD | 1 | |
| | CALIFORNIA STATE UNIVERSITY, NORTHRIDGE | 2017-67018-26173 | 10 | RD | 18,199 | |
| | LOUISIANA STATE UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE | 87460 | 10 | RD | 13,426 | |
| | NATIONAL FISH AND WILDLIFE FOUNDATION | 0806.16.052206 | 10 | RD | 12,043 | |
| NATIONAL FISH AND WILDLIFE FOUNDATION | 0806.17.055495 | 10 | RD | 68,219 | | |
| NATIONAL FISH AND WILDLIFE FOUNDATION | 0806.17.055660 | 10 | RD | 130,090 | | |
| NATIONAL FISH AND WILDLIFE FOUNDATION | 81B22 | 10 | RD | 2,023 | | |
| NATIONAL FISH AND WILDLIFE FOUNDATION | 0808.17.057446 | 10 | RD | 102,666 | | |
| NATIONAL FISH AND WILDLIFE FOUNDATION | 0808.17.057447 | 10 | RD | 117,914 | | |
| NATIONAL FISH AND WILDLIFE FOUNDATION | 0808.17.057481 | 10 | RD | 163,371 | | |
| NORTH CAROLINA STATE UNIVERSITY | 89638 | 10 | RD | 99,548 | | |
| OAK RIDGE NATIONAL LABORATORY | 005934 | 10 | RD | 82,171 | | |
| PUBLIC HEALTH INSTITUTE | 72B54 | 10 | RD | 27,776 | 22,136 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|--|--|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF AGRICULTURE | TAHOE RESOURCE CONSERVATION DISTRICT | SWP 1 | 10 | RD | 25,311 | |
| | THE UNIVERSITY OF ALABAMA (TUSCALOOSA) | 2017011 | 10 | RD | 9,437 | |
| | UNIVERSITY OF MINNESOTA | H006588501 | 10 | RD | 27,982 | |
| | UNIVERSITY OF MINNESOTA | AG-3151-P-17-0234 | 10 | RD | 23,238 | |
| | UNIVERSITY OF NEBRASKA | 25623902350306 | 10 | RD | 3,859 | |
| | UNIVERSITY OF OREGON | 239120A | 10 | RD | 12,181 | |
| | UNIVERSITY OF UTAH | 009622 | 10 | RD | 5,461 | |
| | UNIVERSITY OF WISCONSIN-MADISON | 2018-70005-28737 | 10 | RD | 2,878 | |
| | WESTAT | 72B02 | 10 | RD | 17,848 | |
| | AMERICAN RIVERS | 60358 | 10 | RD | 15,676 | |
| | FOUNDATION FOR FOOD AND AGRICULTURE RESEARCH | 550830 | 10 | RD | 35,320 | |
| | | | | | 58,093,286 | 8,792,585 |
| DEPARTMENT OF AGRICULTURE Total | | | | | 69,694,963 | 9,175,019 |
| DEPARTMENT OF COMMERCE | | | | | | |
| | Passthrough/Partial Passthrough | | | | | |
| | MONTEREY BAY AQUARIUM RESEARCH INSTITUTE | 1611447 | 11 | 012 | 399,062 | |
| | MONTEREY BAY AQUARIUM RESEARCH INSTITUTE | 1710308:4 | 11 | 012 | 41,542 | |
| | MONTEREY BAY AQUARIUM RESEARCH INSTITUTE | A16-0171-005 | 11 | 012 | 148,986 | |
| | SOUTHEASTERN UNIVERSITY'S RESEARCH ASSOCIATION | A00-0975-007 | 11 | 012 | 72,747 | |
| | UNIVERSITY OF MARYLAND | A16-0218-003 | 11 | 012 | 52,149 | |
| | UNIVERSITY OF WASHINGTON | 762824 | 11 | 012 | 24,986 | |
| | | | | | 739,472 | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA STATE UNIVERSITY, NORTH RIDGE | A18-0060-S002 | 11 | 417 | 2,251 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 75193327 | 11 | 417 | -18 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 75199714 | 11 | 417 | 47,333 | |
| | MISSISSIPPI ALABAMA SEA GRANT CONSORTIUM | 19-07-008 | 11 | 417 | 9,958 | |
| | | | | | 59,525 | |
| | Passthrough/Partial Passthrough | | | | | |
| | GLOBAL SCIENCES & TECHNOLOGY, INC. | 78177 | 11 | 431 | 6,859 | |
| | GLOBAL SCIENCES & TECHNOLOGY, INC. | PSA-PROTECH-18-UCI01-CYC1 | 11 | 431 | 18,864 | |
| | UNIVERSITY OF WASHINGTON | UWSC9314 | 11 | 431 | 43,055 | |
| | RIVERSIDE TECHNOLOGY, INC. | PROTECH-UCI-CYC1 | 11 | 431 | 8,404 | |
| | | | | | 77,182 | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE | P1670009 | 11 | 432 | 207,806 | |
| | ECS FEDERAL, INC | 1721570326 | 11 | 432 | 29,642 | |
| | ECS FEDERAL, INC | 23A01 | 11 | 432 | 2,987 | |
| | THE CULTURED ABALONE FARM LLC | 201603461 | 11 | 432 | 6,503 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 75198802:5 | 11 | 432 | 102 | |
| | | | | | 247,041 | |
| | Passthrough/Partial Passthrough | | | | | |
| | PACIFIC STATES MARINE FISHERIES COMMISSION | 17103G | 11 | 437 | 13,990 | |
| | PACIFIC STATES MARINE FISHERIES COMMISSION | 19-07G | 11 | 437 | 53,806 | |
| | | | | | 67,796 | |
| | Passthrough/Partial Passthrough | | | | | |
| | BERING SEA FISHERMEN'S ASSOCIATION | A19-0747-001 | 11 | 438 | 1,390 | |
| | | | | | 1,390 | |
| | Passthrough/Partial Passthrough | | | | | |
| | SEWARD ASSOCIATION FOR THE ADVANCEMENT OF MARINE SCIENCE | A17-0159-002 | 11 | 439 | 166,289 | |
| | | | | | 166,289 | |
| | Passthrough/Partial Passthrough | | | | | |
| | NATIONAL FISH AND WILDLIFE FOUNDATION | 0303.16.052922 | 11 | 454 | 50,612 | |
| | | | | | 50,612 | |
| | Passthrough/Partial Passthrough | | | | | |
| | NATIONAL FISH AND WILDLIFE FOUNDATION | A18-0506-001 | 11 | 463 | 86,370 | |
| | SONOMA COUNTY WATER AGENCY | TW 1415-102 | 11 | 463 | 101,247 | |
| | | | | | 187,617 | |
| | Passthrough/Partial Passthrough | | | | | |
| | UNIVERSITY CORPORATION FOR ATMOSPHERIC RESEARCH | SUBAWD000647 | 11 | 467 | 12,585 | |
| | | | | | 12,585 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---------------------------------------|---|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF COMMERCE | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE | P1670004 | 11 | 472 | 731,435 | |
| | NORTH PACIFIC RESEARCH BOARD | A18-0177-001 | 11 | 472 | -18,448 | |
| | NORTH PACIFIC RESEARCH BOARD | 1810 | 11 | 472 | 313 | |
| | | | | | 713,301 | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA STATE COASTAL CONSERVANCY | 17-022 | 11 | 478 | 98,857 | |
| | | | | | 98,857 | |
| | Passthrough/Partial Passthrough | | | | | |
| | NATIONAL FISH AND WILDLIFE FOUNDATION | 0302.16.053210 | 11 | 482 | 3,329 | |
| | | | | | 3,329 | |
| | Passthrough/Partial Passthrough | | | | | |
| | APPLIED TECHNOLOGY COUNCIL | 1061-24-770 (SB1341-13-CQ-000 | 11 | 609 | 53,779 | |
| | | | | | 53,779 | |
| | Passthrough/Partial Passthrough | | | | | |
| | IOWA STATE UNIVERSITY | 426-17-02B-CYC7 | 11 | 619 | 795,842 | |
| | | | | | 795,842 | |
| | Passthrough/Partial Passthrough | | | | | |
| | XCSPEC, INC. | A18-0775 | 11 | 620 | 83,383 | |
| | | | | | 83,383 | |
| | Direct | | | | | |
| | DEPARTMENT OF COMMERCE | VARIOUS | 11 | RD | 34,616,645 | 3,158,502 |
| | Passthrough/Partial Passthrough | | | | | |
| | COUNTY OF SONOMA | 1415039 | 11 | RD | 15,000 | |
| | CODAR OCEAN SENSORS | 59095 | 11 | RD | 74 | |
| | | | | | 34,631,719 | 3,158,502 |
| DEPARTMENT OF COMMERCE Total | | | | | 37,989,718 | 3,158,502 |
| DEPARTMENT OF DEFENSE | | | | | | |
| | Passthrough/Partial Passthrough | | | | | |
| | CHARLES RIVER ANALYTICS | 009762 | 12 | 001 | 91,272 | |
| | HYPRES, INC. | 010306 | 12 | 001 | 33,295 | |
| | HYPRES, INC. | 010558 | 12 | 001 | 20,220 | |
| | TRISTAN TECHNOLOGIES | 008776 | 12 | 001 | 113,738 | |
| | TRISTAN TECHNOLOGIES | 010395 | 12 | 001 | 20,106 | |
| | INTELLIGENT AUTOMATION, INC. | 010383 | 12 | 001 | 22,675 | |
| | | | | | 301,306 | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA PARKS AND RECREATION, DEPARTMENT OF | C1370032 | 12 | 114 | 794,530 | |
| | | | | | 794,530 | |
| | Passthrough/Partial Passthrough | | | | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA LANG (W81XWH-10-1-0657) | 12 | 240 | 34,501 | |
| | | | | | 34,501 | |
| | Passthrough/Partial Passthrough | | | | | |
| | ARIZONA STATE UNIVERSITY/TEMPE | SUB 17-066 (N00014-16-1-3206) | 12 | 300 | -6,466 | |
| | CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY | SA0000447 | 12 | 300 | 140 | |
| | CHARLES RIVER ANALYTICS | 85856 | 12 | 300 | 7,753 | |
| | COLUMBIA UNIVERSITY | SUB 1(GG012351) N00014-15-1-26 | 12 | 300 | 8,561 | |
| | COLUMBIA UNIVERSITY | SUB 1(GG013984)(N000014-18-1-2 | 12 | 300 | 4,529 | |
| | CRAYTEX, LLC | 79369 | 12 | 300 | 93,313 | |
| | DREXEL UNIVERSITY | 840115-2 | 12 | 300 | 155,141 | |
| | DUKE UNIVERSITY | 13-ONR-1111 | 12 | 300 | 161,421 | |
| | GEORGIA INSTITUTE OF TECHNOLOGY | RG923-G1 | 12 | 300 | 422,353 | |
| | GEORGIA INSTITUTE OF TECHNOLOGY | RH804-G1 | 12 | 300 | 122,191 | |
| | GEORGIA INSTITUTE OF TECHNOLOGY | RK015-G4 | 12 | 300 | 219,136 | |
| | HIGH-TEST LABORATORIES, INC. | SUB 2568-002 (N111-053) | 12 | 300 | 27,428 | |
| | HLS RESEARCH, INC. | SUB 20184849 (N00014-17-C-7041 | 12 | 300 | 27,480 | |
| | INDIANA UNIVERSITY | A18-0115 | 12 | 300 | 6,451 | |
| | JOHNS HOPKINS UNIVERSITY | 2002694585 | 12 | 300 | 175,096 | |
| | LEIDOS, INC. | 87879 | 12 | 300 | 51 | |
| | LUNA INNOVATIONS INCORPORATED | 59423 | 12 | 300 | 6,629 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---------------------------------------|--|--|--------------------------------|-----------|----------------------|------------------------------------|--------|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF DEFENSE | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | 5710004237:2 | 12 | 300 | 142,767 | | |
| | NEW YORK UNIVERSITY | F7112-01:07 | 12 | 300 | 3,092 | | |
| | NORTH CAROLINA STATE UNIVERSITY | SUB 2015-1959-03 (N00014-15-1- | 12 | 300 | 448,794 | | |
| | NORTHWESTERN UNIVERSITY | 59829 | 12 | 300 | -87,180 | | |
| | OHIO STATE UNIVERSITY | 60063949 | 12 | 300 | 108,301 | | |
| | PRINCETON UNIVERSITY | 80312 | 12 | 300 | 98,626 | | |
| | PURDUE UNIVERSITY | 410478961 | 12 | 300 | 40,157 | | |
| | SIEMENS CORPORATION | 1037-01-CYC1 | 12 | 300 | 119,370 | | |
| | SMRU LIMITED | A17-0639-001 | 12 | 300 | 71,418 | | |
| | STANFORD UNIVERSITY | 60744755-114407-UCB | 12 | 300 | 376,853 | | |
| | TETRA TECH, INC. | A18-0925-001 | 12 | 300 | 19,086 | | |
| | UNIVERSITY OF ARIZONA | 008996 | 12 | 300 | -1,794 | | |
| | UNIVERSITY OF ARIZONA | 206874 | 12 | 300 | 167,916 | | |
| | UNIVERSITY OF ARIZONA | 429405 | 12 | 300 | 103,903 | | |
| | UNIVERSITY OF ARIZONA | SUB 200257(N00014-14-1-0505) | 12 | 300 | 74,190 | | |
| | UNIVERSITY OF ARIZONA | 217733:7 | 12 | 300 | 190,981 | | |
| | UNIVERSITY OF ARIZONA | 390506:2 | 12 | 300 | 226,367 | | |
| | UNIVERSITY OF COLORADO BOULDER | 1553360 (N0014-15-1-2809) | 12 | 300 | 310,960 | | |
| | UNIVERSITY OF COLORADO BOULDER | SUB 1557550(OCC6761B) | 12 | 300 | 21,370 | | |
| | UNIVERSITY OF ILLINOIS | 088800-16605 | 12 | 300 | 6,167 | | |
| | UNIVERSITY OF MARYLAND | 88883 | 12 | 300 | 6,502 | | |
| | UNIVERSITY OF MASSACHUSETTS AMHERST | SUB 17-009730 B 00 (N00014-17- | 12 | 300 | 81,655 | | |
| | UNIVERSITY OF MASSACHUSETTS AMHERST | 010076 | 12 | 300 | 265,980 | | |
| | UNIVERSITY OF MASSACHUSETTS AMHERST | 18-010467 C 00 | 12 | 300 | 230,923 | | |
| | UNIVERSITY OF MINNESOTA | A006141804 | 12 | 300 | 202,886 | | |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | SUB 5103081 (N00014-15-1-2578) | 12 | 300 | 102,263 | | |
| | UNIVERSITY OF NOTRE DAME (INCL GEM) | 203349UCSD | 12 | 300 | 69,721 | | |
| | UNIVERSITY OF ROCHESTER | SUB 417132G/GR510677 (N00014-1 | 12 | 300 | 1,972 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | SUB 84902573 (N00014-17-1-2062 | 12 | 300 | 235,957 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 82976179-CYC3 | 12 | 300 | 109,002 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 85470620:1 | 12 | 300 | 310,596 | | |
| | UNIVERSITY OF TENNESSEE | A19-0099-S004 | 12 | 300 | 125,940 | | |
| | UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON | 0011221B:3 | 12 | 300 | 118,106 | | |
| | UNIVERSITY OF VIRGINIA | GG11764 146901-CYC5 | 12 | 300 | -6 | | |
| | UNIVERSITY OF WASHINGTON | UWSC9067 | 12 | 300 | 235,277 | | |
| | UNIVERSITY OF WASHINGTON | UWSC9069 | 12 | 300 | 237,144 | | |
| | SYSTEMS & TECHNOLOGY RESEARCH LLC | 2017-0044-CYC1 | 12 | 300 | 92,934 | | |
| | DYNACORP SYSTEM AND SOLUTIONS | 59568 | 12 | 300 | 65 | | |
| | HAL TECHNOLOGY, LLC | 210619-CYC1 | 12 | 300 | 58,749 | | |
| | | | | | 6,358,215 | | |
| | Passthrough/Partial Passthrough | LEIDOS, INC. | SUB 10163495 (N62645-14-C-4030 | 12 | 301 | 58,923 | |
| | | | | | 58,923 | | |
| | Passthrough/Partial Passthrough | OREGON HEALTH & SCIENCE UNIVERSITY | 1010447_UCSF | 12 | 340 | 407,981 | |
| | | SOAR TECHNOLOGY, INC. | SC17008 | 12 | 340 | 154,293 | |
| | | UNIVERSITY OF PITTSBURGH | 0043845-1 | 12 | 340 | 326,861 | |
| | | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 88552 | 12 | 340 | -341 | |
| | | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 88715 | 12 | 340 | -6,379 | |
| | | VYSNOVA PARTNERS, INC. | SC-2017-SABER-013-002 | 12 | 340 | 116,358 | 3,121 |
| | | | | | 998,773 | 3,121 | |
| | Passthrough/Partial Passthrough | METABIOTA, INC | 201405DTRA | 12 | 351 | 43,872 | 23,716 |
| | | METABIOTA, INC | 201406DTRA | 12 | 351 | 56,517 | 41,053 |
| | | OHIO STATE UNIVERSITY | 60059839 | 12 | 351 | 146,960 | |
| | | SOUTHERN METHODIST UNIVERSITY | GA00176-7506 | 12 | 351 | 36,258 | |
| | | TEMPLE UNIVERSITY | 258954-UCLA:1 | 12 | 351 | -1,973 | |
| | | UNIVERSITY OF NEVADA, LAS VEGAS/UNLV RESEARCH FOUNDATION | 17-22FW-00 | 12 | 351 | 87,686 | |
| | | UNIVERSITY OF NEW MEXICO | HDTRA11810022 | 12 | 351 | 75,366 | |
| | | UNIVERSITY OF TENNESSEE | A18-0780-S001 | 12 | 351 | 216,477 | |
| | VANDERBILT UNIVERSITY | UNIV59843 | 12 | 351 | 168,031 | | |
| | VANDERBILT UNIVERSITY | 88827 | 12 | 351 | -16 | | |
| | | | | 829,178 | 64,768 | | |
| Passthrough/Partial Passthrough | UNIVERSITY OF NOTRE DAME (INCL GEM) | 203396UCSF | 12 | 355 | 30,044 | | |
| | | | | 30,044 | | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---------------------------------------|--|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF DEFENSE | Passthrough/Partial Passthrough | | | | | |
| | AMERICAN BURN ASSOCIATION | W81XWH-16-2-0048 | 12 | 420 | 202,124 | |
| | AMERICAN BURN ASSOCIATION | W81XWH-16-2-0055 | 12 | 420 | 115,298 | |
| | BINGHAMTON UNIVERSITY | W81XWH_16_1-0557 | 12 | 420 | 72,518 | |
| | BOSTON UNIVERSITY | 58771 | 12 | 420 | -23 | |
| | CEDARS-SINAI MEDICAL CENTER | 0001319676 | 12 | 420 | -5,002 | |
| | CHARLES RIVER ANALYTICS | SC1708701-CYC1 | 12 | 420 | 130,523 | |
| | DUKE UNIVERSITY | SUB 3130729(W81XWH-17-1-0372) | 12 | 420 | 2,594 | |
| | GENEVA FOUNDATION | 201400882 | 12 | 420 | 2,029 | |
| | HENRY FORD HEALTH SYSTEM | B70089UCSF | 12 | 420 | 51,375 | |
| | HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY MEDICINE | 3582 PO 887817 | 12 | 420 | 103,589 | |
| | HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY MEDICINE | 823738/WX81XWH112017 | 12 | 420 | 166,061 | |
| | HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY MEDICINE | 4096 | 12 | 420 | 791,105 | |
| | JOHNS HOPKINS UNIVERSITY | 2002015246/METRC2 | 12 | 420 | 617 | |
| | JOHNS HOPKINS UNIVERSITY | 2002458529 | 12 | 420 | 159 | |
| | JOHNS HOPKINS UNIVERSITY | SUB 2003728025 (W81XWH-14-1-03 | 12 | 420 | 144,764 | |
| | JOHNS HOPKINS UNIVERSITY | 2000851841 | 12 | 420 | -63,045 | |
| | JOHNS HOPKINS UNIVERSITY | 2002397378:3 | 12 | 420 | 109,899 | |
| | JOHNS HOPKINS UNIVERSITY | 2003611970 | 12 | 420 | 41,998 | |
| | MASSACHUSETTS EYE AND EAR INFIRMARY | 38033 | 12 | 420 | 67,169 | |
| | MASSACHUSETTS EYE AND EAR INFIRMARY | SUB 38039 (W81XWH-15-2-0044) | 12 | 420 | 1,606 | |
| | MASSACHUSETTS GENERAL HOSPITAL | W81XWH-17-1-0492 | 12 | 420 | -1,708 | |
| | MEDICAL COLLEGE OF WISCONSIN | 80004 | 12 | 420 | -6,485 | |
| | MEDICAL COLLEGE OF WISCONSIN | A132730 | 12 | 420 | 22,996 | |
| | MEDICAL COLLEGE OF WISCONSIN | B5569 | 12 | 420 | 2,421 | |
| | MEMORIAL SLOAN-KETTERING CANCER CENTER | BD523951 | 12 | 420 | 81,766 | |
| | NATIONAL JEWISH HEALTH | 20108701 | 12 | 420 | 55,981 | |
| | NATIONAL TRAUMA INSTITUTE | NTI-JWMP-201501 | 12 | 420 | 100,655 | |
| | NATIONAL TRAUMA INSTITUTE | NTI-CLOTT17-12 | 12 | 420 | 307,835 | |
| | NATIONAL TRAUMA INSTITUTE | SUB NTI-CLOTT17-11 (W81XWH-17- | 12 | 420 | 131,846 | |
| | NATIONAL TRAUMA INSTITUTE | 70A05 | 12 | 420 | -8,583 | |
| | NATIONAL TRAUMA INSTITUTE | 872B3 | 12 | 420 | -144 | -100 |
| | NATIONAL TRAUMA INSTITUTE | SUB NTRAP-18-07(W81XWH18C0179) | 12 | 420 | 8,209 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC | 1812 | 12 | 420 | 11,204 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC | WEI1872-02 | 12 | 420 | 125,949 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC | WEI187205094728 | 12 | 420 | 16,843 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC | 1814 | 12 | 420 | 8,606 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC | 1810 | 12 | 420 | 7,949 | |
| | OREGON HEALTH & SCIENCE UNIVERSITY | 1008335_UCSF | 12 | 420 | 382,079 | |
| | PACIFIC HEALTH RESEARCH AND EDUCATION INSTITUTE | SUB PHREI-21501-01(W81XWH-15-1 | 12 | 420 | 4,899 | |
| | PARTNERS HEALTHCARE SYSTEM, INC | 79398 | 12 | 420 | -272 | |
| | PARTNERS HEALTHCARE SYSTEM, INC | 20190730 | 12 | 420 | 41,492 | |
| | PURDUE UNIVERSITY | 4104-64057 | 12 | 420 | -71 | |
| | RAND CORP | 9920170033-CYC1 | 12 | 420 | 6,281 | |
| | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | 8222 | 12 | 420 | -71 | |
| | SPR THERAPEUTICS LLC | SUB 20161887 (W81XWH-12-2-0132 | 12 | 420 | 5,614 | |
| | STANFORD UNIVERSITY | 61357202-122325 | 12 | 420 | 80,308 | |
| | STANFORD UNIVERSITY | 61414227-117996 | 12 | 420 | 33,172 | |
| | STANFORD UNIVERSITY | 61763383-121561 | 12 | 420 | 18,675 | |
| | STATE UNIVERSITY SYSTEM OF FLORIDA | 22206065-03 | 12 | 420 | 26,775 | |
| | THE UNIVERSITY OF ALABAMA AT BIRMINGHAM | 000507860-014 | 12 | 420 | 6,958 | |
| | THE UNIVERSITY OF ALABAMA AT BIRMINGHAM | 000507860-022 | 12 | 420 | 9,918 | |
| | THE UNIVERSITY OF ALABAMA AT BIRMINGHAM | 000516840-021 | 12 | 420 | 4,129 | |
| | THE UNIVERSITY OF ALABAMA AT BIRMINGHAM | 000518323-005-CYC1 | 12 | 420 | 90,705 | |
| | TUFTS UNIVERSITY | ARM026 | 12 | 420 | 2,431 | |
| | UNIVERSITY OF CHICAGO | SUB FP067927 (W81XWH1810501) | 12 | 420 | 3,209 | |
| | UNIVERSITY OF CINCINNATI | 010376-002 | 12 | 420 | 144,994 | |
| | UNIVERSITY OF COLORADO DENVER | FY16.794.007/1000616 | 12 | 420 | 12,348 | |
| | UNIVERSITY OF COLORADO DENVER | FY18.576.005 | 12 | 420 | 22,073 | |
| | UNIVERSITY OF COLORADO DENVER | SUB FY17.794.016 (W81XWH-15-1- | 12 | 420 | 8,051 | |
| | UNIVERSITY OF MARYLAND | 1802254 | 12 | 420 | 14,979 | |
| | UNIVERSITY OF MICHIGAN | 3003219081:5 | 12 | 420 | 164,194 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 69094653-CYC4 | 12 | 420 | 6,882 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 69986229-CYC3 | 12 | 420 | 4,000 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 70043783-CYC3 | 12 | 420 | 15,027 | |
| | UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON | 0013377B | 12 | 420 | 23,246 | |
| | UNIVERSITY OF TEXAS MEDICAL BRANCH AT GALVESTON | 15-017 | 12 | 420 | 56,018 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA ADV LANG (W81XWH-15-1-0330 | 12 | 420 | 24,217 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA LANG 298028 (W81XWH-10-1-0 | 12 | 420 | 13,079 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/Pass-Through Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---------------------------------------|--|---|--------------------------------|-----------|----------------------|------------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF DEFENSE | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA NORMAN (W81XWH-15-1-0030) | 12 | 420 | 17,910 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 8724A | 12 | 420 | 59,292 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 8741G | 12 | 420 | 7,752 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 879D4 | 12 | 420 | 12,245 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 87B6D | 12 | 420 | 3,714 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA AFARI 112579741 (W81XWH-18 | 12 | 420 | 12,117 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA LANG (W81WH-17-1-0041) | 12 | 420 | 14,204 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA LANG 0072FED (W81WH-17-1-0 | 12 | 420 | 5,615 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA NORMAN (W81XWH-15-1-0330) | 12 | 420 | 23,960 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA RISBROUGH (W81XWH-181-0761 | 12 | 420 | 6,587 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA RISBROUGH 097050000(W81XW | 12 | 420 | 21,657 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA RISBROUGH(W81XWH1810761) | 12 | 420 | 27,044 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA SCHIEHSER 110788676(W81XWH | 12 | 420 | 24,570 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA TUSZYNSKI (W81XWH1810470) | 12 | 420 | 36,876 | | |
| | WAKE FOREST UNIVERSITY | WFOUHS 441005B GU-05 | 12 | 420 | 45,887 | | |
| | YESHIVA UNIVERSITY | 321170 | 12 | 420 | 55,024 | | |
| | LOGY BIOSERVICES, INC. | W150KN-16-9-1002 | 12 | 420 | 4,276 | | |
| | HENNEPIN HEALTHCARE RESEARCH INSTITUTE | SUB 15059-01 (W81XWH-17-2-0059 | 12 | 420 | 37,872 | | |
| | INHIBRX, LLC | SUB 20180328 (W81XWH1810131) | 12 | 420 | 17,006 | | |
| | TRANSLATIONAL GENOMICS RESEARCH INSTITUTE | SUB NARAYANAN-17-01 (W81XWH-17 | 12 | 420 | 65,019 | | |
| | UNIVERSITY OF MARYLAND SCHOOL OF MEDICINE | 1802297 | 12 | 420 | 110,596 | | |
| | | | | | 4,635,259 | -100 | |
| | | Passthrough/Partial Passthrough | | | | | |
| | | CALIFORNIA INSTITUTE OF TECHNOLOGY | 43B-1097280 | 12 | 431 | 804,541 | |
| | | CALIFORNIA INSTITUTE OF TECHNOLOGY | SUB 43B-1097279 (W911NF-16-1-0 | 12 | 431 | 273,699 | |
| | | CALIFORNIA STATE UNIVERSITY, NORTHRIDGE | A19-0006-S001 | 12 | 431 | 49,479 | |
| | | CORNELL UNIVERSITY | 76091-10531 | 12 | 431 | 559,975 | |
| | | CORNELL UNIVERSITY | 78845-10693 | 12 | 431 | 143,042 | |
| | | DCS CORPORATION | NONE (W911NF-10-2-0022) | 12 | 431 | 329,143 | |
| | | DUKE UNIVERSITY | 313-0590-CYC6 | 12 | 431 | 232,258 | |
| | | GALOIS INC | 2015-001-CYC10 | 12 | 431 | 342,628 | |
| | | GEORGIA INSTITUTE OF TECHNOLOGY | RF228-G1 | 12 | 431 | 30,165 | |
| | | HARVARD UNIVERSITY | 89283 | 12 | 431 | -21,473 | |
| | | JOHNS HOPKINS UNIVERSITY | 010195 | 12 | 431 | 36,279 | |
| | | JOHNS HOPKINS UNIVERSITY | 2003550747:04 | 12 | 431 | 174,775 | |
| | LEHIGH UNIVERSITY | 543152-78001:5 | 12 | 431 | 56,433 | | |
| | MASSACHUSETTS GENERAL HOSPITAL | W911NF-16-C-0079 | 12 | 431 | 352,343 | | |
| | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | S4660 - PO 217710:1 | 12 | 431 | 231,792 | | |
| | OHIO STATE UNIVERSITY | 60043375:11 | 12 | 431 | 38,651 | | |
| | UNIVERSITY OF ILLINOIS | SUB 2015-05174-03 (W911NF-15-1 | 12 | 431 | 48,448 | | |
| | UNIVERSITY OF MARYLAND | 37919-28424101 | 12 | 431 | 194,084 | | |
| | UNIVERSITY OF MASSACHUSETTS AMHERST | SUB 16-008956 B(W911NF-15-1-05 | 12 | 431 | -297,181 | | |
| | UNIVERSITY OF MICHIGAN | SUBK0008376 | 12 | 431 | 121,336 | | |
| | UNIVERSITY OF MISSOURI | C00045065-2 | 12 | 431 | 188,694 | | |
| | UNIVERSITY OF MISSOURI | C00045065-3 | 12 | 431 | 133,993 | | |
| | UNIVERSITY OF PENNSYLVANIA | 571714 | 12 | 431 | 79,563 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 80483423 | 12 | 431 | 117,672 | | |
| | UNIVERSITY OF UTAH | 10034220-S5-CYC1 | 12 | 431 | 3,086 | | |
| | UNIVERSITY OF WASHINGTON | SUB UWSC10378(W911NF-17-1-0595 | 12 | 431 | 64,359 | | |
| | WORCESTER POLYTECHNIC INSTITUTE | 18-TMP-01-215468-CYC1 | 12 | 431 | 298,422 | | |
| | WORCESTER POLYTECHNIC INSTITUTE | 10520-GR-CYC1 | 12 | 431 | 1,026 | | |
| | MEDICAL TECHNOLOGY ENTERPRISE CONSORTIUM | 2018-674 | 12 | 431 | 1,359,313 | 718,768 | |
| | | | | | 5,946,546 | 718,768 | |
| | Passthrough/Partial Passthrough | | | | | | |
| | QUESTEK INNOVATIONS LLC | 009524 | 12 | 450 | 5,072 | | |
| | | | | | 5,072 | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | INSTITUTE OF INTERNATIONAL EDUCATION | 0054-UCLA-10:2 | 12 | 550 | 268,944 | | |
| | | | | | 268,944 | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | UNIVERSITY OF FLORIDA | UFDSP00012373-CYC1 | 12 | 599 | 26,588 | | |
| | | | | | 26,588 | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | PENNSYLVANIA STATE UNIVERSITY | 006576 | 12 | 630 | 177,308 | | |
| | PENNSYLVANIA STATE UNIVERSITY | 4957UCDARMY0045 | 12 | 630 | 370,205 | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---------------------------------------|--|--|--------------------------------|-----------|----------------------|---------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF DEFENSE | PENNSYLVANIA STATE UNIVERSITY | 87271 | 12 | 630 | 219,305 | | |
| | RAYTHEON BBN TECHNOLOGIES CORP. | W911NF-09-2-0053 | 12 | 630 | 515,244 | | |
| | UNIVERSITY OF ILLINOIS | 088831-16649 | 12 | 630 | 399,309 | | |
| | UNIVERSITY OF PENNSYLVANIA | SUB 572622(W911NF-17-2-0181) | 12 | 630 | 615,419 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 92312369-CYC1 | 12 | 630 | 168,119 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA LEUNG (W81XWH-16-1-0754) | 12 | 630 | 69,471 | | |
| | NATIONAL SCIENCE TEACHERS ASSOCIATION | 19-871-005-CYC1 | 12 | 630 | 10,231 | | |
| | NATIONAL SCIENCE TEACHERS ASSOCIATION | 19-871-006-CYC1 | 12 | 630 | 16,771 | | |
| | | | | | | 2,561,383 | |
| | | Passthrough/Partial Passthrough | | | | | |
| | | HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY MEDICINE | 2942 | 12 | 750 | 10,116,363 | |
| | | HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY MEDICINE | SUB 2880/837344 (HU0001-15-2-0 | 12 | 750 | 420,828 | |
| | | HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY MEDICINE | 3689-CYC3 | 12 | 750 | 303,953 | |
| | | HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY MEDICINE | 4571 | 12 | 750 | 211,647 | |
| | | HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY MEDICINE | 4689 | 12 | 750 | 5,080,899 | |
| | | | | | | 16,133,690 | |
| | | Passthrough/Partial Passthrough | | | | | |
| | | AECOM TECHNICAL SERVICES | 63933 | 12 | 800 | 2,143 | |
| | | APOGEE RESEARCH LLC | 201802-CYC10 | 12 | 800 | 216,673 | |
| | | BAE SYSTEMS (GREAT BRITAIN) | 94316 | 12 | 800 | -446 | |
| | | BROWN UNIVERSITY | 85500 | 12 | 800 | 555 | |
| | CALIFORNIA INSTITUTE OF TECHNOLOGY | 68-1098510 | 12 | 800 | 131,180 | | |
| | CARBON TECHNOLOGY, INC. | CTI-205420-CYC1 | 12 | 800 | 8,849 | | |
| | CHARLES RIVER ANALYTICS | SC1607602-CYC1 | 12 | 800 | 10,605 | | |
| | FLEXTECH ALLIANCE | SUB MCA 00009475 (042299) | 12 | 800 | 1,002 | | |
| | GEORGE MASON UNIVERSITY | E203722-1-CYC3 | 12 | 800 | 25,212 | | |
| | GEORGE WASHINGTON UNIVERSITY | 86861 | 12 | 800 | 122,031 | | |
| | GEORGE WASHINGTON UNIVERSITY | SUB 18-S12 (FA9550-18-1-0288) | 12 | 800 | 40,185 | | |
| | GEORGIA TECH RESEARCH CORPORATION | SUB RJ321-G1 (FA9550-17-1-0274 | 12 | 800 | 56,878 | | |
| | JOHNS HOPKINS UNIVERSITY | 2001622119 | 12 | 800 | -5,569 | | |
| | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | 5710003664 | 12 | 800 | 256,112 | | |
| | MAXENTRIC TECHNOLOGIES LLC | SUB UCSD-3928-1 (FA8650-18-P-1 | 12 | 800 | 53,938 | | |
| | MICROXACT INCORPORATED | 59469 | 12 | 800 | 165 | | |
| | MORTON PHOTONICS | MP-UCSB-03 | 12 | 800 | 222,330 | | |
| | NORTHWESTERN UNIVERSITY | 8732E | 12 | 800 | -5,235 | | |
| | PURDUE UNIVERSITY | 010490 | 12 | 800 | 15,473 | | |
| | SRI INTERNATIONAL | SUB PO15349 (FA8750-17-C-0115) | 12 | 800 | 199,826 | | |
| | STANFORD UNIVERSITY | 008542 | 12 | 800 | 103,808 | | |
| | STANFORD UNIVERSITY | 60796566-114411:8 | 12 | 800 | 136,033 | | |
| | STANFORD UNIVERSITY | 61964931-136167 | 12 | 800 | 5,286 | | |
| | STATE UNIVERSITY OF NEW YORK | SB160126-0003C | 12 | 800 | 481,602 | | |
| | STATE UNIVERSITY OF NEW YORK | SB160126-0004C | 12 | 800 | 231,639 | | |
| | STATE UNIVERSITY OF NEW YORK | SB160126-0005C | 12 | 800 | 148,972 | | |
| | STATE UNIVERSITY OF NEW YORK | SB160126-0007C | 12 | 800 | 88,679 | | |
| | STATE UNIVERSITY OF NEW YORK | SB160126-0008C | 12 | 800 | 61,695 | | |
| | STATE UNIVERSITY OF NEW YORK | SB160126-ACADEMY3C | 12 | 800 | 39,818 | | |
| | STATE UNIVERSITY OF NEW YORK | SB160126-GDP02 | 12 | 800 | 417,635 | 133,517 | |
| | STATE UNIVERSITY OF NEW YORK | 59400 | 12 | 800 | 8,267 | | |
| | STATE UNIVERSITY OF NEW YORK | 59402 | 12 | 800 | 300,205 | | |
| | STATE UNIVERSITY OF NEW YORK | 59404 | 12 | 800 | 45,975 | | |
| | STATE UNIVERSITY OF NEW YORK | 59405 | 12 | 800 | 32,282 | | |
| | STATE UNIVERSITY OF NEW YORK | 59692 | 12 | 800 | -755 | | |
| | STATE UNIVERSITY OF NEW YORK | 59696 | 12 | 800 | 126 | | |
| | STATE UNIVERSITY OF NEW YORK | 59705 | 12 | 800 | -16 | | |
| | STATE UNIVERSITY OF NEW YORK | SB160126-ADMIN 03 | 12 | 800 | 330,847 | | |
| | STONY BROOK UNIVERSITY (A STATE UNIVERSITY OF NEW YORK CAMPUS) | 77020-1137156-2-CYC2 | 12 | 800 | 200,487 | | |
| | UNIVERSITY OF CENTRAL FLORIDA | 24086151-01 | 12 | 800 | 306,762 | | |
| | UNIVERSITY OF CINCINNATI | 010844-002 | 12 | 800 | 49,696 | 12,905 | |
| | UNIVERSITY OF COLORADO BOULDER | 009155 | 12 | 800 | 38,766 | | |
| | UNIVERSITY OF COLORADO BOULDER | SUB 1557013(FA9550 -16-1-0400) | 12 | 800 | 119,092 | | |
| | UNIVERSITY OF CONNECTICUT | SUB 141414 (FA9550-14-1-0351) | 12 | 800 | 178,214 | | |
| | UNIVERSITY OF FLORIDA | A19-0638-001 | 12 | 800 | 4,159 | | |
| | UNIVERSITY OF FLORIDA | SUB00001676 | 12 | 800 | 56,202 | | |
| | UNIVERSITY OF MARYLAND | 36954Z8165003 | 12 | 800 | 222,440 | | |
| | UNIVERSITY OF MARYLAND | 7479-Z8142001:F | 12 | 800 | 216,656 | | |
| | UNIVERSITY OF MICHIGAN | 3003832475:3 | 12 | 800 | 230,505 | | |
| | UNIVERSITY OF MINNESOTA | A004376801 | 12 | 800 | -50 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 55231182-CYC4 | 12 | 800 | -8,851 | | |

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Schedule of Expenditures of Federal Awards
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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---------------------------------------|--|--|------------------|-----------|----------------------|------------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF DEFENSE | UNIVERSITY OF TEXAS SYSTEM | UTA14-001123 | 12 | 800 | 116,823 | | |
| | UNIVERSITY OF TEXAS-DALLAS | A19-0807-001 | 12 | 800 | 31,064 | | |
| | UNIVERSITY OF TEXAS-PAN AMERICAN FOUNDATION | 12602015166:005 | 12 | 800 | 157,253 | | |
| | UNIVERSITY OF UTAH | 10038423-S2 | 12 | 800 | 111,306 | | |
| | UNIVERSITY OF WASHINGTON | SUB UWSC8748 (BPO10328) | 12 | 800 | 100,950 | | |
| | UNIVERSITY OF WASHINGTON | A16-0323-003 | 12 | 800 | 14,416 | | |
| | UNIVERSITY OF WASHINGTON | SUB UWSC10456 (FA9550-16-1-014 | 12 | 800 | 145,290 | | |
| | UNIVERSITY OF WISCONSIN-MADISON | 580K742 | 12 | 800 | 495 | | |
| | VIBRANT | 784 | 12 | 800 | 17,137 | | |
| | VOXTEL, INC | AFRL-16-7638-UCI-ML-CYC2 | 12 | 800 | 22,025 | | |
| | YALE UNIVERSITY | SUB C13L11586 (FA9550-13-1-002 | 12 | 800 | 212,939 | | |
| | JUJI, INC. | 204997-CYC3 | 12 | 800 | 46,998 | | |
| | UNIVERSITY OF DAYTON | SUB RSC17069 (FA8651-16-D-0311 | 12 | 800 | 30,583 | | |
| | ASSURED INFORMATION SECURITY, INC. | 1086-SB-CYC1 | 12 | 800 | 208,321 | | |
| | UNIVERSAL TECHNOLOGY CORPORATION | A18-0724-001 | 12 | 800 | 55,638 | | |
| | | | | | 6,669,322 | 146,422 | |
| | | Passthrough/Partial Passthrough FLORIDA TURBINE TECHNOLOGIES, INC. | FTT160403 | 12 | 801 | 79,143 | |
| | | | | | 79,143 | | |
| | | Passthrough/Partial Passthrough HYPRES, INC. | 86888 | 12 | 810 | 2,711 | |
| | | QUANTUM DESIGN INTERNATIONAL, INC. | 009473 | 12 | 810 | 8,566 | |
| | | | | | 11,277 | | |
| | | Passthrough/Partial Passthrough KOREAN AMERICAN CENTER | KAC-210712-CYC1 | 12 | 900 | 7,029 | |
| | | | | | 7,029 | | |
| | | Passthrough/Partial Passthrough PURDUE UNIVERSITY | H98230-17-1-0417 | 12 | 905 | 74,983 | |
| | | | | | 74,983 | | |
| | | Passthrough/Partial Passthrough ABBOTT LABORATORIES (INCL PERCLOSE) | 874C8 | 12 | 910 | 2 | |
| | | ARIZONA STATE UNIVERSITY/TEMPE | 17055 | 12 | 910 | 4,362 | |
| | | BOEING COMPANY, THE | 1250821 | 12 | 910 | 29,516 | |
| | | BOEING COMPANY, THE | 1351956 | 12 | 910 | 289,484 | |
| | BROAD INSTITUTE INC. | SUB 5000361-5500001046 (N66001 | 12 | 910 | 536,949 | | |
| | BROWN UNIVERSITY | A16-0282-005 | 12 | 910 | 37,311 | | |
| | ERC, INCORPORATED | PO NO. PS160001 | 12 | 910 | 62,533 | | |
| | HARVARD UNIVERSITY | SUB 152220.5094542.0003 | 12 | 910 | 4,767 | | |
| | HARVARD UNIVERSITY | 152236.5099921.0005-CYC3 | 12 | 910 | 64,485 | | |
| | HP INC. | 59269 | 12 | 910 | 42,137 | | |
| | HRL LABORATORIES, LLC | 17038-182022-QS-CYC1 | 12 | 910 | 95,707 | | |
| | INTERNATIONAL BUSINESS MACHINES CORPORATION | SUB 4915012801 (W911NF-15-C-02 | 12 | 910 | 24,107 | | |
| | JOHNS HOPKINS UNIVERSITY | 2003366140 | 12 | 910 | 203,880 | | |
| | JOHNS HOPKINS UNIVERSITY | 2003367845 | 12 | 910 | 371,813 | | |
| | JOHNS HOPKINS UNIVERSITY | 2003625731:1 | 12 | 910 | 107 | | |
| | MICROELECTRONICS ADVANCED RESEARCH CORPORATION | 85550 | 12 | 910 | -9,984 | | |
| | NORTHEASTERN UNIVERSITY | 505068-78050 | 12 | 910 | 242,115 | | |
| | PENNSYLVANIA STATE UNIVERSITY | SUB 6047-UCSD-DARPA-0011(D19AC | 12 | 910 | 7,687 | | |
| | PROFUSA, INC. | W911NF-16-1-0341 | 12 | 910 | 161,908 | | |
| | RAYTHEON BBN TECHNOLOGIES CORP. | 008658 | 12 | 910 | 182,360 | | |
| | SRI INTERNATIONAL | 27-001455 | 12 | 910 | 110,645 | | |
| | SRI INTERNATIONAL | A19-0650-001 | 12 | 910 | 10,000 | | |
| | TELEDYNE TECHNOLOGIES, INC. | PO00099849 | 12 | 910 | 11,875 | | |
| | THE TEXAS A&M UNIVERSITY SYSTEM | M1901612 | 12 | 910 | 16,335 | | |
| | UNIVERSITY OF COLORADO BOULDER | 1550663 | 12 | 910 | -610 | | |
| | UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE) | 58768 | 12 | 910 | -336 | | |
| | UNIVERSITY OF MARYLAND | 61397-Z9112201-CYC1 | 12 | 910 | 193,891 | | |
| | UNIVERSITY OF MELBOURNE | DARPA-CROZIER-1 | 12 | 910 | 217,773 | | |
| | UNIVERSITY OF MICHIGAN | 3004849812 | 12 | 910 | 148,781 | | |
| | UNIVERSITY OF MINNESOTA | 008590 | 12 | 910 | 70,478 | | |
| | UNIVERSITY OF NOTRE DAME (INCL GEM) | 208107UCI-CYC3 | 12 | 910 | 499,529 | | |
| | UNIVERSITY OF TEXAS-DALLAS | 1705120:1 | 12 | 910 | 627,996 | | |
| | UNIVERSITY OF UTAH | 10036982-UCI-CYC10 | 12 | 910 | 173,684 | | |
| | VANDERBILT UNIVERSITY | UNIV58702 | 12 | 910 | 230,524 | | |
| | BOYCE THOMPSON INSTITUTE FOR PLANT RESEARCH, INC. | 1705 | 12 | 910 | 881,852 | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---------------------------------------|--|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF DEFENSE | JOHN B. PIERCE LABORATORY, INC., THE | 285-E | 12 | 910 | 380,356 | |
| | SUN MICROSYSTEMS LABORATORIES, INC. | 82846 | 12 | 910 | 3,306 | |
| | DONALD DANFORTH PLANT SCIENCE CENTER | 010121 | 12 | 910 | 366,838 | |
| | GUIDESTAR OPTICAL SYSTEMS, INC. | PO729-20180915 | 12 | 910 | 25,481 | |
| | PERCEPTRONICS | PSI-210724-CYC1 | 12 | 910 | 52,371 | |
| | | | | | 6,372,015 | |
| | Direct | | | | | |
| | DEFENSE ADVANCED RESEARCH PROJECTS AGENCY | VARIOUS | 12 | RD | 56,518,806 | 15,411,653 |
| | SEPARATE AGENCIES | VARIOUS | 12 | RD | 13,178,583 | 1,315,433 |
| | DEPARTMENT OF ARMY | VARIOUS | 12 | RD | 87,939,984 | 17,699,379 |
| | DEPARTMENT OF AIR FORCE | VARIOUS | 12 | RD | 27,876,655 | 4,221,696 |
| | DEPARTMENT OF NAVY | VARIOUS | 12 | RD | 103,752,255 | 11,228,136 |
| | Passthrough/Partial Passthrough | | | | | |
| | ANALOG PHOTONICS LLC | 89601 | 12 | RD | 12 | |
| | ARGONNE NATIONAL LABORATORY (DOE GOCO LAB OPERATED BY UNIV OF CHICAGO) | 6F30603 | 12 | RD | 171,637 | |
| | ARGONNE NATIONAL LABORATORY (DOE GOCO LAB OPERATED BY UNIV OF CHICAGO) | 8F-30225 | 12 | RD | 41,085 | |
| | BAE SYSTEMS (GREAT BRITAIN) | 846660 | 12 | RD | 10,028 | |
| | BATTELLE MEMORIAL INSTITUTE | 70719 | 12 | RD | 487,963 | |
| | BORON SPECIALTIES, LLC | 009563 | 12 | RD | 105,873 | |
| | BROAD INSTITUTE INC. | 5000361-5500001045-CYC1 | 12 | RD | 261,464 | |
| | BROWN UNIVERSITY | 60446 | 12 | RD | 15,764 | |
| | CALIFORNIA INSTITUTE OF TECHNOLOGY | 102-1098625 | 12 | RD | 189,963 | |
| | CALIFORNIA INSTITUTE OF TECHNOLOGY | 68-1098508 | 12 | RD | 157,425 | |
| | CARNEGIE MELLON UNIVERSITY | 1042288-403752 | 12 | RD | 43,632 | |
| | CARNEGIE MELLON UNIVERSITY | 1130233-409603 | 12 | RD | 6,914 | |
| | COLORADO STATE UNIVERSITY | G-09573-01 | 12 | RD | 59,438 | |
| | CORNELL UNIVERSITY | 84713-11113 | 12 | RD | 158,235 | |
| | DUKE UNIVERSITY | 313-0794 | 12 | RD | 224,213 | |
| | DUKE UNIVERSITY | 313-0838 | 12 | RD | 27,409 | |
| | FLEXTECH ALLIANCE | 042299 | 12 | RD | 279,491 | |
| | GEORGIA STATE UNIVERSITY | SP00012914-03 | 12 | RD | 277,563 | |
| | INFOSCITEX CORPORATION | FPH02-5024 | 12 | RD | 135,593 | |
| | JOHNS HOPKINS UNIVERSITY | 134841 | 12 | RD | 35,436 | |
| | JOHNS HOPKINS UNIVERSITY | 89158 | 12 | RD | 5,918 | |
| | JOHNS HOPKINS UNIVERSITY | 2003506204 | 12 | RD | 194,790 | |
| | KITWARE, INC. | K001892-00-S02 | 12 | RD | 437,230 | |
| | LOGISTIC GLIDERS INC | 201602876 | 12 | RD | 142,698 | |
| | LOS ALAMOS NATIONAL SECURITY, LLC | 346271 | 12 | RD | 123,220 | |
| | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | S4579 PO 199511 | 12 | RD | 83,687 | |
| | MAYACHITRA, INC. | 007843 | 12 | RD | 119,232 | |
| | MAYACHITRA, INC. | 008228 | 12 | RD | 1,348 | |
| | MAYACHITRA, INC. | 57959 | 12 | RD | 26,889 | |
| | MCCONNELL FOUNDATION (THE) | TMGSUBK0112016 | 12 | RD | 105,389 | |
| | METRO LASER | 77832 | 12 | RD | 1,945 | |
| | METRON, INCORPORATED | 008423 | 12 | RD | 110,488 | |
| | MONTANA STATE UNIVERSITY | G176-19-W7329 | 12 | RD | 31,280 | |
| | NEVADA SYSTEM OF HIGHER EDUCATION | UNR-19-23 | 12 | RD | 66,300 | |
| | NEW JERSEY INSTITUTE OF TECHNOLOGY | SUB (NP) 996402(W911NF-15-C-02 | 12 | RD | 156,753 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC | 1679 | 12 | RD | 23,000 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC | 88130 | 12 | RD | -102,566 | |
| | NORTHROP GRUMMAN CORPORATION | 75B41 | 12 | RD | -2,530 | |
| | OLEANDR SCIENTIFIC LLC | OS-208291-CYC1 | 12 | RD | 213,275 | |
| | PENNSYLVANIA STATE UNIVERSITY | 5576UCDACC0003 | 12 | RD | 79,967 | |
| | RAYTHEON BBN TECHNOLOGIES CORP. | 007176 | 12 | RD | 97,921 | |
| | RAYTHEON BBN TECHNOLOGIES CORP. | W911INF0920053 | 12 | RD | 208,005 | |
| | RAYTHEON BBN TECHNOLOGIES CORP. | 14754 | 12 | RD | 75,295 | |
| | SIEMENS CORPORATION | 160-1-CYC1 | 12 | RD | 39,966 | |
| | SOAR TECHNOLOGY, INC. | SC-17-019 | 12 | RD | 29,808 | |
| | SOAR TECHNOLOGY, INC. | SC-18-028 | 12 | RD | 10,855 | |
| | STATE UNIVERSITY OF NEW YORK POLYTECHNIC INSTITUTE | MCE_EPDAA005 | 12 | RD | 24,295 | |
| | STATE UNIVERSITY OF NEW YORK POLYTECHNIC INSTITUTE | 89505 | 12 | RD | 1 | |
| | UNIVERSITY OF ALASKA | UAF 17-0094 | 12 | RD | 317,917 | |
| | UNIVERSITY OF CENTRAL FLORIDA | 24086133-02 | 12 | RD | 20,005 | |
| | UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE) | W81XWH-15-1-0584 | 12 | RD | 41,134 | |
| | UNIVERSITY OF ILLINOIS | 070798-14455 | 12 | RD | -4,397 | |
| | UNIVERSITY OF ILLINOIS | SUB 077083-16369(2015-ST-061-C | 12 | RD | -3,622 | |
| | UNIVERSITY OF ILLINOIS | 076187-16892 | 12 | RD | 135,264 | |
| | UNIVERSITY OF ILLINOIS | 088831-16646 | 12 | RD | 100,187 | |
| | UNIVERSITY OF MICHIGAN | 3004628715 | 12 | RD | 152,203 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|--|--|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF DEFENSE | UNIVERSITY OF PENNSYLVANIA | 572622 | 12 | RD | 241,207 | |
| | UNIVERSITY OF PENNSYLVANIA | 574723 | 12 | RD | 174,750 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 110332909 | 12 | RD | 68,923 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 110247221 | 12 | RD | 162,767 | |
| | UNIVERSITY OF VIRGINIA | GG12149.160225 | 12 | RD | 75,224 | |
| | UNIVERSITY OF WASHINGTON | UWSC9478 | 12 | RD | 115,461 | |
| | VACUUM PROCESS ENGINEERING, INC | A17-0434 | 12 | RD | 206,629 | |
| | ZYMERGEN, INC. | 4209 | 12 | RD | 38,111 | |
| | DALHOUSIE UNIVERSITY | 044343 | 12 | RD | 217,462 | |
| | MILITARY HEALTH RESEARCH FOUNDATION | 0050 | 12 | RD | 19,067 | |
| | MODULATED IMAGING, INC. | 77306 | 12 | RD | -70 | |
| | NATIONAL UNIVERSITY OF SINGAPORE | RL2016-157 | 12 | RD | 106,526 | |
| | SEMICONDUCTOR RESEARCH CORPORATION | 2018-JU-2778 | 12 | RD | 47,026 | |
| | THE MCCONNELL GROUP, INC. | 30870 | 12 | RD | 106,509 | |
| | X-THERMA INC. | 043891 | 12 | RD | 22,128 | |
| | JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY LLC | 151299 | 12 | RD | 94,000 | |
| | MANUFACTURING TECHNIQUES, INC. | 38551 | 12 | RD | 15,544 | |
| | NUVOTRONICS, INC. | NUVO-UCD-1807-1153 | 12 | RD | 32,500 | |
| | NVIDIA CORPORATION | A18-1587 | 12 | RD | 84,963 | |
| | UES, INC. | S-977-055-002-CYC1 | 12 | RD | 6,276 | |
| | | | | | 296,853,575 | 49,876,297 |
| | DEPARTMENT OF DEFENSE Total | | | | 349,050,295 | 50,809,277 |
| | CENTRAL INTELLIGENCE AGENCY | Passthrough/Partial Passthrough | | | | |
| | | UNIVERSITY OF UTAH | 006950 | 13 | 431 | 152,833 |
| | | | | | 152,833 | |
| | Passthrough/Partial Passthrough | | | | | |
| | DUKE UNIVERSITY | 283-1047 | 13 | RD | 13 | |
| | | | | | 13 | |
| CENTRAL INTELLIGENCE AGENCY Total | | | | | 152,846 | |
| DEPARTMENT OF INTERIOR | Passthrough/Partial Passthrough | | | | | |
| | INTERTRIBAL COURT OF SOUTHERN CALIFORNIA | 20183015 | 15 | 029 | 72,500 | |
| | | | | | 72,500 | |
| | Passthrough/Partial Passthrough | | | | | |
| | UNIVERSITY OF NEVADA, LAS VEGAS/UNLV RESEARCH FOUNDATION | 007919 | 15 | 231 | 35,099 | |
| | | | | | 35,099 | |
| | Passthrough/Partial Passthrough | | | | | |
| | UNIVERSITY OF WISCONSIN-MADISON | 714K335 | 15 | 232 | 16,886 | |
| | | | | | 16,886 | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY | SA0000474 | 15 | 423 | 255,284 | |
| | CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY | SA0000513 | 15 | 423 | 90,849 | |
| | CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY | SA0000544 | 15 | 423 | 64,990 | |
| | | | | | 411,123 | |
| | Passthrough/Partial Passthrough | | | | | |
| | METROPOLITAN WATER DIST OF SO CALIFORNIA | 009980 | 15 | 530 | 48,316 | |
| | METROPOLITAN WATER DIST OF SO CALIFORNIA | 010196 | 15 | 530 | 4,886 | |
| | METROPOLITAN WATER DIST OF SO CALIFORNIA | 179074 | 15 | 530 | 142 | |
| | METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA | 008263 | 15 | 530 | 962 | |
| | | | | | 54,306 | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA STATE COASTAL CONSERVANCY | 16-044 | 15 | 614 | 18,706 | |
| | CALIFORNIA STATE COASTAL CONSERVANCY | 18257 | 15 | 614 | 216,962 | |
| | | | | | 235,668 | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE | P1620105 | 15 | 615 | 70,363 | |
| | CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE | P1740401 | 15 | 615 | 72,144 | 5,456 |
| | CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE | P1880109 | 15 | 615 | 76,972 | |
| | | | | | 219,479 | 5,456 |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE | P1780004 | 15 | 634 | 59,552 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---------------------------------------|---|---|----------------|-------------------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF INTERIOR | CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE | P1791002-00 | 15 | 634 | 6,735 | |
| | CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE | P1880100 | 15 | 634 | 78,515 | |
| | | | | | 144,801 | |
| | Passthrough/Partial Passthrough SOUTHWEST WETLANDS INTERPRETIVE ASSOCIATION | 79703 | 15 | 650 | 40,521 | 40,521 |
| | Passthrough/Partial Passthrough NATIONAL FISH AND WILDLIFE FOUNDATION TROUT UNLIMITED | 0302.16.053589 20162013 | 15 15 | 663 663 | 77,344 54,545 | 131,889 |
| | Passthrough/Partial Passthrough UNIVERSITY OF SOUTHERN CALIFORNIA | 009931 | 15 | 807 | 1,716 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 104713903 | 15 | 807 | 44,671 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 104713976 | 15 | 807 | 28,429 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 104714023-E | 15 | 807 | 12,091 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 18032 | 15 | 807 | 18,098 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 59911 | 15 | 807 | 1,078 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 59918 | 15 | 807 | 12,601 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 85B54 | 15 | 807 | 14,947 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 91272728-CYC3 | 15 | 807 | 4,999 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | SUB 104714134 (TASK 18107) (G1 | 15 | 807 | 36,864 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | SUB 104714134 (TASK 18211) (G1 | 15 | 807 | 19,954 | |
| | SOUTHERN CALIFORNIA EARTHQUAKE CENTER | 877DC | 15 | 807 | 4,421 | |
| | | | | | 199,868 | |
| | Passthrough/Partial Passthrough UNIVERSITY OF ARIZONA | 447880 | 15 | 808 | 16,428 | 16,428 |
| | Passthrough/Partial Passthrough NATURE CONSERVANCY | OCS-NCEAS-02012016 | 15 | 820 | 2,504 | |
| | UNIVERSITY OF ARIZONA | 221641 | 15 | 820 | 26,980 | 7,590 |
| | UNIVERSITY OF ARIZONA | 223659 | 15 | 820 | 2,146 | |
| | UNIVERSITY OF ARIZONA | Y561946 | 15 | 820 | 20,741 | |
| | UNIVERSITY OF ARIZONA | 419572 | 15 | 820 | 62,365 | 43,398 |
| | UNIVERSITY OF ARIZONA | 478582 | 15 | 820 | 31,484 | |
| | UNIVERSITY OF ARIZONA | G18AC00320 | 15 | 820 | 65,267 | |
| | UNIVERSITY OF ARIZONA | Y561461 | 15 | 820 | -84 | |
| | OCEANS INITIATIVE | 63663 | 15 | 820 | 26,945 | |
| | | | | | 238,347 | 50,987 |
| | Passthrough/Partial Passthrough CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS | C8961515 | 15 | 904 | 1,000 | 1,000 |
| | Passthrough/Partial Passthrough COLORADO STATE UNIVERSITY | G-09814-02 | 15 | 945 | 13,641 | |
| | UNIVERSITY OF GEORGIA | P17AC01606 | 15 | 945 | 2,272 | |
| | | | | | 15,913 | |
| | Passthrough/Partial Passthrough NATIONAL WRITING PROJECT | 92-CA03-NPS2018 | 15 | 954 | 3,500 | 3,500 |
| | Direct DEPARTMENT OF INTERIOR | VARIOUS | 15 | RD | 16,971,542 | 557,637 |
| | Passthrough/Partial Passthrough CALIFORNIA DIVISION OF BOATING AND WATERWAYS | C1370030 | 15 | RD | 155,772 | |
| | COOPERATIVE ECOSYSTEM STUDIES UNITS | P13AC00676 | 15 | RD | 33,312 | |
| | METRO LASER | UCI26DI02-CYC1 | 15 | RD | 53,598 | |
| | UNIVERSITY OF WYOMING | 1003666 | 15 | RD | 4,990 | |
| | | | | | 17,219,214 | 557,637 |
| DEPARTMENT OF INTERIOR Total | | | | 19,056,544 | 614,081 | |
| DEPARTMENT OF JUSTICE | Passthrough/Partial Passthrough RESEARCH FOUNDATION CUNY, CITY UNIVERSITY OF NEW YORK | 49274-D | 16 | 123 | 229,773 | 229,773 |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | | |
|---------------------------------------|---|---|----------------|-----------|----------------------|---------------------------------|-------------------|
| | | | Prefix | Extension | Federal Expenditures | Passed through to Subrecipients | |
| DEPARTMENT OF JUSTICE | Passthrough/Partial Passthrough | | | | | | |
| | BATTELLE MEMORIAL INSTITUTE | US001-0000716297 | 16 | 560 | 43,103 | | |
| | COLORADO STATE UNIVERSITY | SUB G-75544-01 (2016-DN-BX-419) | 16 | 560 | 145,435 | | |
| | PACIFIC INSTITUTE FOR RESEARCH AND EVALUATION | SUB 0874(2016-CK-BX-0008) | 16 | 560 | 14,214 | | |
| | UNIVERSITY OF COLORADO BOULDER | 1553430 (2015-DN-BX-K016 | 16 | 560 | 37,807 | | |
| | UNIVERSITY OF WASHINGTON | UWSC8970-CYC3 | 16 | 560 | 19,690 | | |
| | AMERICAN INSTITUTES FOR RESEARCH IN THE BEHAVIORAL SCIENCES | 0395200003-CYC1 | 16 | 560 | 13,058 | | |
| | | | | | 273,307 | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | CONTRA COSTA COUNTY | 20-084-0 | 16 | 590 | 297,006 | | |
| | | | | | 297,006 | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | NATIONAL 4-H COUNCIL | 71A77 | 16 | 726 | 1,025 | | |
| | NATIONAL 4-H COUNCIL | 75B94 | 16 | 726 | 43,474 | | 12,333 |
| | NATIONAL 4-H COUNCIL | 32C03 | 16 | 726 | 14,955 | | |
| | | | | | 59,454 | | 12,333 |
| | Direct | | | | | | |
| | DEPARTMENT OF JUSTICE | VARIOUS | 16 | RD | 3,521,196 | | 373,758 |
| | | | | | 3,521,196 | | 373,758 |
| DEPARTMENT OF JUSTICE Total | | | | | 4,380,737 | | 386,091 |
| DEPARTMENT OF LABOR | Passthrough/Partial Passthrough | | | | | | |
| | AVAR CONSULTING, INC. | 2018-001-CYC1 | 17 | 268 | 34,173 | | |
| | | | | | 34,173 | | |
| | Direct | | | | | | |
| | DEPARTMENT OF LABOR | VARIOUS | 17 | RD | 440,576 | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | AVAR CONSULTING, INC. | DOL-OPS-15-C-0060 | 17 | RD | 49,880 | | |
| | | | | | 490,456 | | |
| DEPARTMENT OF LABOR Total | | | | | 524,629 | | |
| DEPARTMENT OF STATE | Passthrough/Partial Passthrough | | | | | | |
| | AFRICAN MEDICAL AND RESEARCH FOUNDATION | 00009510 | 19 | 029 | 5 | | |
| | | | | | 5 | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | CRDF GLOBAL | 009904 | 19 | 700 | 50,000 | | |
| | | | | | 50,000 | | |
| | Direct | | | | | | |
| | DEPARTMENT OF STATE | VARIOUS | 19 | RD | 45,709,983 | | 28,391,463 |
| | DEPARTMENT OF STATE (ARRA) | VARIOUS | 19 | RD | -18,306 | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | ASPEN INSTITUTE, THE | 043925 | 19 | RD | 111,512 | | |
| | UNIVERSITY OF NOTRE DAME (INCL GEM) | 202809UCB | 19 | RD | 45,290 | | |
| | | | | | 45,848,479 | | 28,391,463 |
| DEPARTMENT OF STATE Total | | | | | 45,898,484 | | 28,391,463 |
| DEPARTMENT OF TRANSPORTATION | Passthrough/Partial Passthrough | | | | | | |
| | VIRGINIA TRANSPORTATION RESEARCH COUNCIL | 111463 | 20 | 200 | 111,936 | | |
| | | | | | 111,936 | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | OREGON DEPARTMENT OF TRANSPORTATION | 30286 | 20 | 215 | 20,860 | | 16,579 |
| | | | | | 20,860 | | 16,579 |
| | Passthrough/Partial Passthrough | | | | | | |
| | CALIFORNIA HIGH-SPEED RAIL AUTHORITY (ARRA) | HSR15-97 | 20 | 319 | 24,919 | | 52,530 |
| | | | | | 24,919 | | 52,530 |
| | Passthrough/Partial Passthrough | | | | | | |
| | CORNELL UNIVERSITY | 79841-10829 | 20 | 701 | 340,463 | | |
| | TEXAS A&M UNIVERSITY - COLLEGE STATION | 008768 | 20 | 701 | 88,762 | | |
| | UNIVERSITY OF NORTH CAROLINA SYSTEM | 5106575 | 20 | 701 | 364,853 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 009537 | 20 | 701 | 93,689 | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|--|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF TRANSPORTATION | UNIVERSITY OF SOUTHERN CALIFORNIA | 84377997:1 | 20 | 701 | 296,084 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 84381457-CYC2 | 20 | 701 | 219,796 | |
| | | | | | 1,403,647 | |
| | Passthrough/Partial Passthrough | | | | | |
| | BOOZ ALLEN HAMILTON INC. | 108679SB1M | 20 | 762 | 71,143 | |
| | | | | | 71,143 | |
| | Direct | | | | | |
| | DEPARTMENT OF TRANSPORT | VARIOUS | 20 | RD | 4,270,977 | 1,135,642 |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA OFFICE OF TRAFFIC SAFETY | AL18029 | 20 | RD | 497,326 | 465,359 |
| | CALIFORNIA OFFICE OF TRAFFIC SAFETY | MC18004 | 20 | RD | 39,951 | |
| | CALIFORNIA OFFICE OF TRAFFIC SAFETY | PS18034 | 20 | RD | 677,865 | 419,458 |
| | CALIFORNIA OFFICE OF TRAFFIC SAFETY | PS19024 | 20 | RD | 766,968 | 244,315 |
| | CALIFORNIA OFFICE OF TRAFFIC SAFETY | PS19025 | 20 | RD | 159,205 | |
| | CALIFORNIA OFFICE OF TRAFFIC SAFETY | TR18009 | 20 | RD | 50,090 | |
| | CALIFORNIA OFFICE OF TRAFFIC SAFETY | TR18010 | 20 | RD | 12,944 | |
| | CALIFORNIA OFFICE OF TRAFFIC SAFETY | TR18012 | 20 | RD | 20,030 | |
| | CALIFORNIA OFFICE OF TRAFFIC SAFETY | TR18013 | 20 | RD | 20,076 | |
| | CALIFORNIA OFFICE OF TRAFFIC SAFETY | TR18014 | 20 | RD | 80,564 | 65,766 |
| | CALIFORNIA OFFICE OF TRAFFIC SAFETY | TR19005 | 20 | RD | 77,692 | 9,833 |
| | CALIFORNIA OFFICE OF TRAFFIC SAFETY | TR19006 | 20 | RD | 63,957 | |
| | CALIFORNIA OFFICE OF TRAFFIC SAFETY | TR19007 | 20 | RD | 121,514 | |
| | CALIFORNIA OFFICE OF TRAFFIC SAFETY | TR19008 | 20 | RD | 41,089 | |
| | CALIFORNIA OFFICE OF TRAFFIC SAFETY | TR19009 | 20 | RD | 651,031 | |
| | CALIFORNIA OFFICE OF TRAFFIC SAFETY | TR19010 | 20 | RD | 105,710 | |
| | CALIFORNIA OFFICE OF TRAFFIC SAFETY | TR19011 | 20 | RD | 71,527 | |
| | CALIFORNIA OFFICE OF TRAFFIC SAFETY | TR19012 | 20 | RD | 142,891 | |
| | LEIDOS, INC. | 009139 | 20 | RD | 83,407 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 84380215 | 20 | RD | 269,533 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 114483100 | 20 | RD | 3,974 | |
| | WASHINGTON STATE DEPARTMENT OF TRANSPORTATION | GCB1359 | 20 | RD | -595 | |
| | CALTRANS CALIFORNIA DEPARTMENT OF TRANSPORTATION | 182AE | 20 | RD | 10,815 | |
| | CALTRANS DIVISION OF RESEARCH, INNOVATION AND SYSTEM INFORMATION | 65A0562 | 20 | RD | 315,759 | |
| | CALTRANS DIVISION OF RESEARCH, INNOVATION AND SYSTEM INFORMATION | 1829C | 20 | RD | 80,913 | |
| | CALIFORNIA HIGHWAY PATROL | 18C061149 | 20 | RD | 8 | |
| | AMEC FOSTER WHEELER ENVIRONMENT & INFRASTRUCTURE, INC. | A19-2103 | 20 | RD | 2,346 | |
| | SACRAMENTO AREA COUNCIL OF GOVERNMENTS | SACOG MASTER | 20 | RD | 11,503 | |
| | | | | | 8,649,070 | 2,340,373 |
| DEPARTMENT OF TRANSPORTATION Total | | | | | 10,281,576 | 2,409,482 |
| DEPARTMENT OF THE TREASURY | | | | | | |
| | Passthrough/Partial Passthrough | | | | | |
| | UNIVERSITY OF NEW ORLEANS | 324 | 21 | RD | 16,303 | |
| | | | | | 16,303 | |
| DEPARTMENT OF THE TREASURY Total | | | | | 16,303 | |
| NATIONAL AERONAUTICS & SPACE ADMINISTRATION | | | | | | |
| | Passthrough/Partial Passthrough | | | | | |
| | AEROSPACE CORPORATION | 4600006620 | 43 | 001 | 10,716 | |
| | ARIZONA STATE UNIVERSITY/TEMPE | 17-176 | 43 | 001 | 89,158 | |
| | ARIZONA STATE UNIVERSITY/TEMPE | A17-0383-001 | 43 | 001 | 21,996 | |
| | ARIZONA STATE UNIVERSITY/TEMPE | 009968 | 43 | 001 | 57,522 | |
| | ARIZONA STATE UNIVERSITY/TEMPE | ASUB00000023 | 43 | 001 | 8,155 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A16-0353-001 | 43 | 001 | 3,143 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A16-0354-001 | 43 | 001 | 9,840 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A16-0355-001 | 43 | 001 | 4,217 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A16-0361-001 | 43 | 001 | 4,976 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A16-0419-001 | 43 | 001 | 5,107 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A16-0511-001 | 43 | 001 | 9,257 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A17-0419-001 | 43 | 001 | 91,306 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A17-0420-001 | 43 | 001 | 105,017 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A17-0530-001 | 43 | 001 | 48,078 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A17-0531-001 | 43 | 001 | 5,840 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A17-0545-001 | 43 | 001 | 19,043 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-12914.04-A-CYC3 | 43 | 001 | 13,767 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14178.001-A | 43 | 001 | 565 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14191.008-A | 43 | 001 | 5,843 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14254.001-A | 43 | 001 | 48,916 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14458.001-A | 43 | 001 | 960 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14498.001-A | 43 | 001 | 9,397 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|--|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| NATIONAL AERONAUTICS & SPACE ADMINISTRATION | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14528.003-A | 43 | 001 | 5,435 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-HF2-51379.001-A-CYC1 | 43 | 001 | 49,549 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | SUB NONE (HST-GO-14241.005-A | 43 | 001 | 1,574 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | SUB NONE (HSG-GO-14130.001-A) | 43 | 001 | 1,973 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 58305 | 43 | 001 | 14,592 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 58357 | 43 | 001 | 28,358 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 58365 | 43 | 001 | 16,415 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A00-0029-006 | 43 | 001 | 34,594 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A15-0198-001 | 43 | 001 | 33,812 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A16-0358-001 | 43 | 001 | 16,497 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A16-0359-001 | 43 | 001 | 1,595 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A16-0360-001 | 43 | 001 | 2,632 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A16-0510-001 | 43 | 001 | 3,648 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A16-0568-001 | 43 | 001 | 7,005 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A16-0570-001 | 43 | 001 | 6,434 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A17-0494-001 | 43 | 001 | 22,472 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A17-0495-001 | 43 | 001 | 8,850 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A17-0533-001 | 43 | 001 | 1,159 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A17-0538-001 | 43 | 001 | 27,855 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A17-0547-001 | 43 | 001 | 22,925 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A17-0548-001 | 43 | 001 | 8,687 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A17-0563-001 | 43 | 001 | 24,142 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A17-0564-001 | 43 | 001 | 6,289 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A17-0565-001 | 43 | 001 | 10,388 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A17-0818-001 | 43 | 001 | 12,796 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A18-0595-001 | 43 | 001 | 9,047 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A18-0610-001 | 43 | 001 | 119,854 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A18-0623-001 | 43 | 001 | 66,270 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A18-0628-001 | 43 | 001 | 31,593 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A18-0630-001 | 43 | 001 | 42,673 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-AR-14295.001-A | 43 | 001 | 17,963 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-AR-14554.001-A-CYC1 | 43 | 001 | 51,086 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-13768.024-A | 43 | 001 | 10,345 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14610.015-A | 43 | 001 | 13,450 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14630.002-A | 43 | 001 | 37,056 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14668.001-A | 43 | 001 | 40,289 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14701.002-A | 43 | 001 | 13,862 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14725.003-A | 43 | 001 | 164 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14744.002-A-CYC1 | 43 | 001 | 31,661 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14839.001-A | 43 | 001 | 35,172 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14864.002-A | 43 | 001 | 7,533 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14884.002-A | 43 | 001 | 20,588 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14920.001-A-CYC1 | 43 | 001 | 7,826 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14939.001-A | 43 | 001 | 1,848 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15115.002-A | 43 | 001 | 75,659 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15124.001-A-CYC1 | 43 | 001 | 15,926 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15177.008-A | 43 | 001 | 24,546 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15199.001-A | 43 | 001 | 57,650 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15287.001-A | 43 | 001 | 81,372 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15320.001-A | 43 | 001 | 93,343 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-AR-15057.001 | 43 | 001 | 53,964 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15077.001-A | 43 | 001 | 43,598 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 58383 | 43 | 001 | 1,365 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 58384 | 43 | 001 | 12,938 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 58386 | 43 | 001 | 7,932 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 58387 | 43 | 001 | 28,165 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 58388 | 43 | 001 | 8,786 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 58389 | 43 | 001 | 26,009 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 58393 | 43 | 001 | 19,672 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 58889 | 43 | 001 | 36,882 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 79791 | 43 | 001 | 15,653 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A17-0578-001 | 43 | 001 | 5,000 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A18-0606-001 | 43 | 001 | 14,243 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A18-0613-001 | 43 | 001 | 4,411 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A18-0622-001 | 43 | 001 | 27,830 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A18-0624-001 | 43 | 001 | 6,095 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A18-0626-001 | 43 | 001 | 57,614 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A18-0627-001 | 43 | 001 | 42,605 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A18-0796-001 | 43 | 001 | 4,492 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A19-0746-001 | 43 | 001 | 25,480 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|---|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| NATIONAL AERONAUTICS & SPACE ADMINISTRATION | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-AR-15006.002-A-CYC1 | 43 | 001 | 39,481 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-AR-15026.002-A | 43 | 001 | 33,724 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-13453.004-A:2 | 43 | 001 | 42,324 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-13459.017-A:2 | 43 | 001 | 47,654 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-13767.009-A:2 | 43 | 001 | 53,029 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14044.001-A | 43 | 001 | 13,353 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14219.002-A | 43 | 001 | 5,379 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14621.002-A | 43 | 001 | 2,823 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14670.001-A | 43 | 001 | 3,826 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14790.002-A | 43 | 001 | 36,272 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14872.011-A | 43 | 001 | 4,045 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15096.003-A:1 | 43 | 001 | 36,714 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15117.005-A | 43 | 001 | 14,271 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15123.001-A-CYC1 | 43 | 001 | 69,826 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15212.007-A | 43 | 001 | 62,416 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15213.002-A | 43 | 001 | 1 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15215.004-A | 43 | 001 | 18,469 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15226.002-A-CYC1 | 43 | 001 | 9,788 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15242.017-A-CYC1 | 43 | 001 | 34,352 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15328.002-A | 43 | 001 | 19,388 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15342.001-A | 43 | 001 | 1,003 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15343.001-A | 43 | 001 | 12,647 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15471.001-A | 43 | 001 | 16,328 | |
| | ATAC | 10-1616-UCB | 43 | 001 | 164,761 | |
| | BAYLOR COLLEGE OF MEDICINE | 010481 | 43 | 001 | 83,625 | |
| | BERMUDA INSTITUTE OF OCEAN SCIENCES | 15444UCSB | 43 | 001 | 49,746 | |
| | BIGELOW LABORATORY FOR OCEAN SCIENCES | BLOS 17-001 | 43 | 001 | 49,964 | |
| | BOSTON UNIVERSITY | 4500001963 | 43 | 001 | 9,535 | |
| | BOSTON UNIVERSITY | 79673 | 43 | 001 | 29,058 | |
| | CALIFORNIA INSTITUTE OF TECHNOLOGY | 65L-1097809:01 | 43 | 001 | 31,896 | |
| | CALIFORNIA INSTITUTE OF TECHNOLOGY | S382664-CYC3 | 43 | 001 | 62,190 | |
| | CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY | A19-0724-001 | 43 | 001 | 7,571 | |
| | CALIFORNIA STATE UNIVERSITY, SAN JOSE STATE UNIVERSITY FOUNDATION | 008690 | 43 | 001 | 48,118 | |
| | CATHOLIC UNIVERSITY OF AMERICA, THE | 361207 - SUB 1 | 43 | 001 | 50,892 | |
| | CENTRAL WASHINGTON UNIVERSITY | 14274 | 43 | 001 | 19,999 | |
| | CONSORTIUM FOR OCEAN LEADERSHIP | SA 16-33 | 43 | 001 | 117,555 | |
| | CORNELL UNIVERSITY | 73739-10510 | 43 | 001 | 24,623 | |
| | DESERT RESEARCH INSTITUTE | 656.7206 | 43 | 001 | 22,144 | |
| | EARTH AND SPACE RESEARCH | ESR-2016-224-UCSD | 43 | 001 | 20,269 | |
| | GEORGIA INSTITUTE OF TECHNOLOGY | RG176-G1-CYC1 | 43 | 001 | 30,094 | |
| | GEORGIA INSTITUTE OF TECHNOLOGY | RJ249-G2 | 43 | 001 | 172,919 | |
| | GEORGIA INSTITUTE OF TECHNOLOGY | RK617-G4 | 43 | 001 | 2,770 | |
| | GSI ENVIRONMENTAL, INC | 13-009 | 43 | 001 | 141,332 | |
| | HARVARD UNIVERSITY | 130812-5096205 | 43 | 001 | 51,627 | |
| | JET PROPULSION LABORATORY | 1512986:002 | 43 | 001 | 306,775 | |
| | JET PROPULSION LABORATORY | 1526530 | 43 | 001 | 13,720 | |
| | JET PROPULSION LABORATORY | 1536981 | 43 | 001 | 67,118 | |
| | JET PROPULSION LABORATORY | 1555910 | 43 | 001 | 73,682 | |
| | JET PROPULSION LABORATORY | 1557709 | 43 | 001 | 92,825 | |
| | JET PROPULSION LABORATORY | 1564598 | 43 | 001 | 26,712 | |
| | JET PROPULSION LABORATORY | 1570861 | 43 | 001 | 15,846 | |
| | JET PROPULSION LABORATORY | 009800 | 43 | 001 | 5,971 | |
| | JET PROPULSION LABORATORY | 1532733:006 | 43 | 001 | 42,140 | |
| | JET PROPULSION LABORATORY | 1537426:006 | 43 | 001 | 692,338 | |
| | JET PROPULSION LABORATORY | 1565346 | 43 | 001 | 59,336 | |
| | JET PROPULSION LABORATORY | 1568910 | 43 | 001 | 26,022 | |
| | JET PROPULSION LABORATORY | 1572667 | 43 | 001 | 65,937 | |
| | JET PROPULSION LABORATORY | 1583032-CYC1 | 43 | 001 | 19,442 | |
| | JET PROPULSION LABORATORY | 1586488-CYC2 | 43 | 001 | 35,032 | |
| | JET PROPULSION LABORATORY | 1588498 | 43 | 001 | 89,303 | |
| | JET PROPULSION LABORATORY | 1589110 | 43 | 001 | 11,443 | |
| | JET PROPULSION LABORATORY | 1592619-CYC1 | 43 | 001 | 24,125 | |
| | JET PROPULSION LABORATORY | 1595805-CYC1 | 43 | 001 | 11,742 | |
| | JET PROPULSION LABORATORY | 1596784 | 43 | 001 | 28,727 | |
| | JET PROPULSION LABORATORY | SUB 1583135 (NONE) | 43 | 001 | 229 | |
| | JET PROPULSION LABORATORY | SUB 1597973 (NONE) | 43 | 001 | -731 | |
| | JET PROPULSION LABORATORY | 010080 | 43 | 001 | 17,008 | |
| | JET PROPULSION LABORATORY | 010410 | 43 | 001 | 32,741 | |
| | JET PROPULSION LABORATORY | 010648 | 43 | 001 | 14,039 | |
| | JET PROPULSION LABORATORY | 010711 | 43 | 001 | 3,226 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|--|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| NATIONAL AERONAUTICS & SPACE ADMINISTRATION | JET PROPULSION LABORATORY | 010800 | 43 | 001 | 28,427 | |
| | JET PROPULSION LABORATORY | 1409806:034 | 43 | 001 | 72,577 | |
| | JET PROPULSION LABORATORY | 1409809:041 | 43 | 001 | 264,902 | |
| | JET PROPULSION LABORATORY | 1490248:009 | 43 | 001 | 79,091 | |
| | JET PROPULSION LABORATORY | 1522155:004 | 43 | 001 | 73,025 | |
| | JET PROPULSION LABORATORY | 1523995:004 | 43 | 001 | 4,806 | |
| | JET PROPULSION LABORATORY | 1524322-CYC6 | 43 | 001 | 3,083 | |
| | JET PROPULSION LABORATORY | 1533870:007 | 43 | 001 | 24,232 | |
| | JET PROPULSION LABORATORY | 1542315:007 | 43 | 001 | 66,110 | |
| | JET PROPULSION LABORATORY | 1552843:002 | 43 | 001 | 4,702 | |
| | JET PROPULSION LABORATORY | 1556185:001 | 43 | 001 | 18,687 | |
| | JET PROPULSION LABORATORY | 1559252:004 | 43 | 001 | -454 | |
| | JET PROPULSION LABORATORY | 1565523:002 | 43 | 001 | 9,771 | |
| | JET PROPULSION LABORATORY | 1567551:001 | 43 | 001 | 128,045 | |
| | JET PROPULSION LABORATORY | 1570200:006 | 43 | 001 | 36,288 | |
| | JET PROPULSION LABORATORY | 1572480-CYC2 | 43 | 001 | 59,727 | |
| | JET PROPULSION LABORATORY | 1586488-CYC1 | 43 | 001 | -11,883 | |
| | JET PROPULSION LABORATORY | 1587634 | 43 | 001 | 35,000 | |
| | JET PROPULSION LABORATORY | 1588177-CYC3 | 43 | 001 | 31,299 | |
| | JET PROPULSION LABORATORY | 1605372-CYC1 | 43 | 001 | 17,791 | |
| | JET PROPULSION LABORATORY | 1612013 | 43 | 001 | 25,885 | |
| | JET PROPULSION LABORATORY | 1612014 | 43 | 001 | 18,400 | |
| | JET PROPULSION LABORATORY | 1612525 | 43 | 001 | 31,526 | |
| | JET PROPULSION LABORATORY | 1613317-CYC1 | 43 | 001 | 55,717 | |
| | JET PROPULSION LABORATORY | 1613461-CYC1 | 43 | 001 | 44,856 | |
| | JET PROPULSION LABORATORY | 1616972 | 43 | 001 | 18,377 | |
| | JET PROPULSION LABORATORY | 1618801 | 43 | 001 | 224,055 | |
| | JET PROPULSION LABORATORY | 1619275 | 43 | 001 | 34,432 | |
| | JET PROPULSION LABORATORY | 1619578-CYC1 | 43 | 001 | 14,850 | |
| | JET PROPULSION LABORATORY | 1620723-CYC1 | 43 | 001 | 20,777 | |
| | JET PROPULSION LABORATORY | 77649 | 43 | 001 | 913 | |
| | JET PROPULSION LABORATORY | 79039 | 43 | 001 | -2,004 | 2,671 |
| | JET PROPULSION LABORATORY | 86355 | 43 | 001 | 7,471 | |
| | JET PROPULSION LABORATORY | 877CG | 43 | 001 | -1,829 | |
| | JET PROPULSION LABORATORY | A19-0431-001 | 43 | 001 | 17,997 | |
| | JET PROPULSION LABORATORY | SUB 1621635(NONE) | 43 | 001 | 67,839 | |
| | JET PROPULSION LABORATORY | SUB 1626317(NONE) | 43 | 001 | 6,061 | |
| | JET PROPULSION LABORATORY | 1401886:013 | 43 | 001 | 59,293 | |
| | JET PROPULSION LABORATORY | 1570407:2 | 43 | 001 | 146,788 | |
| | JOHNS HOPKINS UNIVERSITY | 131186:4 | 43 | 001 | 15,196 | |
| | JOHNS HOPKINS UNIVERSITY | 132224:11 | 43 | 001 | 78,861 | |
| | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | 5710003374 | 43 | 001 | 110,401 | |
| | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | 5710003371:8 | 43 | 001 | 82,641 | |
| | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | 73623:1 | 43 | 001 | 48,455 | |
| | METRON AVIATION, INC. | UCB-0001-96C-N132 | 43 | 001 | 47,291 | |
| | MONTANA STATE UNIVERSITY | 63550 | 43 | 001 | 23,710 | |
| | MONTEREY BAY AQUARIUM RESEARCH INSTITUTE | A17-0665-001 | 43 | 001 | 94,928 | |
| | OHIO STATE UNIVERSITY | SUB 60050483 (NNX16AF48G) | 43 | 001 | 53,112 | |
| | OHIO STATE UNIVERSITY | 60066885 | 43 | 001 | 19,423 | |
| | OHIO STATE UNIVERSITY | 60057395:2 | 43 | 001 | 37,070 | |
| | OLD DOMINION UNIVERSITY RESEARCH FOUNDATION | 18-193-100687-010:1 | 43 | 001 | 47,024 | |
| | OREGON STATE UNIVERSITY | NS278A-B:4 | 43 | 001 | 61,795 | |
| | PLANETARY SCIENCE INSTITUTE | A17-0402-001 | 43 | 001 | 68,970 | |
| | PLANETARY SCIENCE INSTITUTE | 1492:1 | 43 | 001 | 45,625 | |
| | PLANETARY SCIENCE INSTITUTE | 1566 UCLA | 43 | 001 | 30,031 | |
| | RICE UNIVERSITY | 80NSSC18K0828 | 43 | 001 | 80,546 | |
| | ROCHESTER INSTITUTE OF TECHNOLOGY | 31967-02-CYC1 | 43 | 001 | 33,324 | |
| | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | SUB 0643 (80NSSC18M0093) | 43 | 001 | 56,682 | |
| | SOUTHWEST RESEARCH INSTITUTE | 699046X17 | 43 | 001 | 85,763 | |
| | SOUTHWEST RESEARCH INSTITUTE | K99050JRG | 43 | 001 | 21,285 | |
| | SOUTHWEST RESEARCH INSTITUTE | L99039MJM | 43 | 001 | 22,261 | |
| | STANFORD UNIVERSITY | 63621 | 43 | 001 | 629 | |
| | UNIVERSITIES SPACE RESEARCH ASSOCIATION | 02274-01 | 43 | 001 | 24,414 | |
| | UNIVERSITIES SPACE RESEARCH ASSOCIATION | SOF 05-00COORAY-CYC2 | 43 | 001 | 29,334 | |
| | UNIVERSITY CORPORATION AT MONTEREY BAY | 28C69 | 43 | 001 | 7,920 | |
| | UNIVERSITY CORPORATION FOR ATMOSPHERIC RESEARCH | SUBAWD000668 | 43 | 001 | 8,202 | |
| | UNIVERSITY OF ARIZONA | 374492:1 | 43 | 001 | 11,635 | |
| | UNIVERSITY OF ARIZONA | 87328 | 43 | 001 | 1,060 | |
| | UNIVERSITY OF ARIZONA | A16-0345-003 | 43 | 001 | -247 | |
| | UNIVERSITY OF CHICAGO | SUB FP061308-A(NNX16AJ34G) | 43 | 001 | 1,276 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---|--|---|---------------------------|-----------|----------------------|------------------------------------|---------|
| | | | Prefix | Extension | Federal Expenditures | | |
| NATIONAL AERONAUTICS & SPACE ADMINISTRATION | UNIVERSITY OF COLORADO BOULDER | 1554485-1000818335 | 43 | 001 | 15,136 | | |
| | UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE) | 1554053:1 | 43 | 001 | 26,517 | | |
| | UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE) | 1556287 | 43 | 001 | 40,548 | | |
| | UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE) | 1552631:4 | 43 | 001 | 60,615 | | |
| | UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE) | 1556906 | 43 | 001 | 39,544 | | |
| | UNIVERSITY OF DELAWARE | 42385 | 43 | 001 | 37,597 | | |
| | UNIVERSITY OF DELAWARE | 45335:1 | 43 | 001 | 16,168 | | |
| | UNIVERSITY OF DELAWARE | 63468 | 43 | 001 | 31,147 | | |
| | UNIVERSITY OF DELAWARE | A19-0541-001 | 43 | 001 | 443 | | |
| | UNIVERSITY OF FLORIDA | UFDSP00011825 | 43 | 001 | 18,799 | | |
| | UNIVERSITY OF IOWA | 1001515160 | 43 | 001 | 166,708 | | |
| | UNIVERSITY OF IOWA | 1001652308:03 | 43 | 001 | 28,643 | | |
| | UNIVERSITY OF MAINE SYSTEM | UM-S966 | 43 | 001 | 5,510 | | |
| | UNIVERSITY OF MAINE SYSTEM | UMS1200 | 43 | 001 | 309 | | |
| | UNIVERSITY OF MARYLAND | 54296-Z6059207 | 43 | 001 | 280,613 | | |
| | UNIVERSITY OF MARYLAND | A16-0050-003 | 43 | 001 | 46,737 | | |
| | UNIVERSITY OF MASSACHUSETTS AMHERST | B000558518:1 | 43 | 001 | 1,168 | | |
| | UNIVERSITY OF MICHIGAN | 3004683323:1 | 43 | 001 | 45,828 | | |
| | UNIVERSITY OF MICHIGAN | 81535 | 43 | 001 | 24,007 | | |
| | UNIVERSITY OF MINNESOTA | A005276801 | 43 | 001 | 198,807 | | |
| | UNIVERSITY OF MINNESOTA | A005821701 | 43 | 001 | 1,308,153 | | |
| | UNIVERSITY OF NEW HAMPSHIRE | 17-001 | 43 | 001 | 48,900 | | |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5100754:4 | 43 | 001 | -1 | | |
| | UNIVERSITY OF TEXAS-AUSTIN | A16-0314-001 | 43 | 001 | 20,751 | | |
| | UNIVERSITY OF TEXAS-AUSTIN | UTA16-000861 | 43 | 001 | 42,542 | | |
| | UNIVERSITY OF TEXAS-AUSTIN | A17-0561-005 | 43 | 001 | 38,750 | | |
| | UNIVERSITY OF TEXAS-AUSTIN | UTA15-000804:2 | 43 | 001 | -187 | | |
| | UNIVERSITY OF TEXAS-DALLAS | 1705881 | 43 | 001 | 29,446 | | |
| | UNIVERSITY OF WASHINGTON | UWSC9226_BPO16911 | 43 | 001 | 8,476 | | |
| | UNIVERSITY OF WASHINGTON | UWSC9264 | 43 | 001 | 8,021 | | |
| | UNIVERSITY OF WASHINGTON | UWSC9241-CYC3 | 43 | 001 | 3,922 | | |
| | UNIVERSITY OF WISCONSIN-MADISON | 545K204:4 | 43 | 001 | -176 | | |
| | UNIVERSITY OF WISCONSIN-MADISON | SUB 790K101(SOF-06-0191-TREMON | 43 | 001 | 52,358 | | |
| | VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY | 426670-19B03 | 43 | 001 | 23,053 | | |
| | WEST VIRGINIA UNIVERSITY | 15-920-UCB | 43 | 001 | 46,913 | | |
| | WOODS HOLE OCEANOGRAPHIC INSTITUTION | A101349 | 43 | 001 | 76,634 | | |
| | WYLE LABORATORIES | T72556 | 43 | 001 | 342,163 | | |
| | HAMPTON UNIVERSITY | HU-170003 | 43 | 001 | -33 | | |
| | SYSTEM SCIENCE APPLICATIONS INC. | SSA-001 | 43 | 001 | 72,681 | | |
| | UNIVERSITY OF HASSELT | 80NSSC17K0056 | 43 | 001 | 41,202 | | |
| | UNIVERSITY OF HAWAII SYSTEM | MA1306 | 43 | 001 | 74,794 | | |
| | UNIVERSITY OF MASSACHUSETTS LOWELL | S52000000027333 | 43 | 001 | 228,588 | | |
| | NORTHWEST INDIAN COLLEGE | A17-0857-001 | 43 | 001 | 31,730 | | |
| | SETI INSTITUTE | 80NSSC18K0854 | 43 | 001 | 226 | | |
| | SETI INSTITUTE | A18-0744-001 | 43 | 001 | 14,742 | | |
| | ANALYTICAL MECHANICS ASSOCIATES, INC. | 010037 | 43 | 001 | 130,236 | | |
| | AUBURN UNIVERSITY | 17-PHYS-209378-UCLA:1 | 43 | 001 | 41,427 | | |
| | BLUE MARBLE SPACE | 009672 | 43 | 001 | 55,871 | | |
| | CALIFORNIA STATE UNIVERSITY | 117801 | 43 | 001 | 62,048 | | |
| | RILEE SYSTEMS TECHNOLOGIES LLC | 80NSSC18M0118-1 | 43 | 001 | 23,021 | | |
| | SPACE SCIENCE INSTITUTE | 79784 | 43 | 001 | 5,076 | | |
| | | | | | 12,735,969 | 2,671 | |
| | Passthrough/Partial Passthrough | | | | | | |
| | | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14199.006-A | 43 | 002 | -16 | |
| | | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14083.002-A-CYC2 | 43 | 002 | 10,082 | |
| | | CALIFORNIA INSTITUTE OF TECHNOLOGY | 44A-1085101 | 43 | 002 | 880,016 | |
| | | CALIFORNIA STATE UNIVERSITY, SAN JOSE STATE UNIVERSITY FOUNDATION | 21-1614-5736-UCD2018 | 43 | 002 | 50,799 | |
| | | GEORGIA TECH RESEARCH CORPORATION | SUB RG183-G1 (NNX15AU22A) | 43 | 002 | 80,178 | |
| | | JET PROPULSION LABORATORY | 1528152-CYC1 | 43 | 002 | 302,700 | 108,602 |
| | | UNIVERSITIES SPACE RESEARCH ASSOCIATION | SUB 05-0047 (NAS2-97001) | 43 | 002 | -9,117 | |
| | | | | | 1,314,641 | 108,602 | |
| | Passthrough/Partial Passthrough | | | | | | |
| | | BAYLOR COLLEGE OF MEDICINE | 7000000516 | 43 | 003 | 422,137 | |
| | | BAYLOR COLLEGE OF MEDICINE | NNX16A069A | 43 | 003 | 275,976 | |
| | | BAYLOR COLLEGE OF MEDICINE | INN0001 | 43 | 003 | 305,632 | |
| | | SOUTHWEST RESEARCH INSTITUTE | J99018CP | 43 | 003 | 46,454 | |
| | | UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE) | 1555630:1 | 43 | 003 | 25,013 | |
| | | | | | 1,075,212 | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|--|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| NATIONAL AERONAUTICS & SPACE ADMINISTRATION | | | | | | |
| | Passthrough/Partial Passthrough | | | | | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-13677.001-A | 43 | 007 | 66,096 | |
| | PRINCETON PLASMA PHYSICS LABORATORY | 86093 | 43 | 007 | 9,936 | |
| | AMERICAN COLLEGE OF SPORTS MEDICINE | 20173116 | 43 | 007 | 213 | |
| | | | | | 76,245 | |
| | Passthrough/Partial Passthrough | | | | | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-AR-14289.001-A-CYC1 | 43 | 008 | 38,749 | |
| | CAL STATE L.A. UNIVERSITY AUXILIARY SERVICES, INC. (UAS) | UC1231210-CYC4 | 43 | 008 | 225,985 | |
| | CSU, SONOMA STATE UNIVERSITY | SUB 115642 (NNX16A181A) | 43 | 008 | 6,456 | |
| | | | | | 271,190 | |
| | Passthrough/Partial Passthrough | | | | | |
| | METRO LASER | UCI27NM09-CYC1 | 43 | 012 | 19,269 | |
| | | | | | 19,269 | |
| | Direct | | | | | |
| | NATIONAL AERONAUTICS & SPACE ADMINISTRATION | VARIOUS | 43 | RD | 89,918,246 | 14,493,853 |
| | Passthrough/Partial Passthrough | | | | | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 005647 | 43 | RD | 17,157 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 007253 | 43 | RD | 12,515 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 007999 | 43 | RD | 49,423 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 008000 | 43 | RD | 28,224 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 008174 | 43 | RD | 14,130 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 008659 | 43 | RD | 42,670 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 008660 | 43 | RD | 174 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-AR-14280.001-A | 43 | RD | 87 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HSTGO13661002A | 43 | RD | 2,778 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-13700.001-A | 43 | RD | 1,525 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-13776.001-A | 43 | RD | 9,908 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-13937.003-A | 43 | RD | 96,679 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14096.007-A | 43 | RD | 4,419 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14492.001-A | 43 | RD | 13,210 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14661.001-A | 43 | RD | 60,048 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14754.001-A | 43 | RD | 18,829 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-HF2-51363.001-A | 43 | RD | 236 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | SUB HST-GO-14606.001-A (NASS-2 | 43 | RD | 31,208 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 007210 | 43 | RD | 19,932 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 007278 | 43 | RD | 25,033 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 007575 | 43 | RD | 30,362 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 008405 | 43 | RD | 29,099 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 008818 | 43 | RD | 5,630 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 008959 | 43 | RD | 44,347 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 009043 | 43 | RD | 48,247 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-AR-15024.001-A | 43 | RD | 50,875 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-13666.001-A | 43 | RD | 32,702 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14118-002 | 43 | RD | 110,864 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14734.016-A | 43 | RD | 92,159 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15170.001-A | 43 | RD | 87,913 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-HF2-51395.001-A | 43 | RD | 98,574 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | SUB HST-GO-15275.008-A (NASS-2 | 43 | RD | 28,184 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 009468 | 43 | RD | 10,762 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 009542 | 43 | RD | 97,967 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 88654 | 43 | RD | 33,211 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A17-0539-002 | 43 | RD | 17,335 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-AR-13886.001-A-CYC3 | 43 | RD | 20,622 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15169.001-A | 43 | RD | 26,599 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-13725.001-A | 43 | RD | 7,567 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-13726.001-A | 43 | RD | 3,815 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14104.002-A | 43 | RD | 4,283 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14717.001-A | 43 | RD | 18,378 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15320.005 | 43 | RD | 14,181 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-HF2-51409.001-A | 43 | RD | 92,173 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HSTGO-14252.002-A | 43 | RD | 242 | |
| | ATA ENGINEERING, INC. | 66316-100-CYC1 | 43 | RD | 218,816 | |
| | CATHOLIC UNIVERSITY OF AMERICA, THE | 88606 | 43 | RD | 96,197 | |
| | JET PROPULSION LABORATORY | 008974 | 43 | RD | 42,445 | |
| | JET PROPULSION LABORATORY | 1492976 | 43 | RD | 1,145 | |
| | JET PROPULSION LABORATORY | 1533766 | 43 | RD | 103,442 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---|--|--|----------------|------------------|----------------------|------------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| NATIONAL AERONAUTICS & SPACE ADMINISTRATION | JET PROPULSION LABORATORY | 1557798 | 43 | RD | 23,392 | | |
| | JET PROPULSION LABORATORY | 1562208 | 43 | RD | 275,058 | | |
| | JET PROPULSION LABORATORY | 1521597 | 43 | RD | 136,144 | | |
| | JET PROPULSION LABORATORY | 1587062-CYC1 | 43 | RD | 80,070 | | |
| | JET PROPULSION LABORATORY | 59358 | 43 | RD | 6 | | |
| | JET PROPULSION LABORATORY | 1616446 | 43 | RD | 45,000 | | |
| | JET PROPULSION LABORATORY | 1616917 | 43 | RD | 58,762 | | |
| | JET PROPULSION LABORATORY | 872G0 | 43 | RD | 1,506 | | |
| | JET PROPULSION LABORATORY | 94485 | 43 | RD | 29,625 | | |
| | JET PROPULSION LABORATORY | 1584157 | 43 | RD | -169 | | |
| | JET PROPULSION LABORATORY | 1584427 | 43 | RD | 20,930 | | |
| | JET PROPULSION LABORATORY | 1602827 | 43 | RD | 28,055 | | |
| | JET PROPULSION LABORATORY | 1612859 | 43 | RD | 24,235 | | |
| | JET PROPULSION LABORATORY | 1616712 | 43 | RD | 2,452 | | |
| | JOHNS HOPKINS UNIVERSITY | 975268 | 43 | RD | 3,654,008 | 1,609,182 | |
| | MCLEAN HOSPITAL | 401498-CYC1 | 43 | RD | 30,272 | | |
| | OEWAVES | NNX17CC66P | 43 | RD | 2,565 | | |
| | ROCHESTER INSTITUTE OF TECHNOLOGY | 79758 | 43 | RD | -440 | | |
| | ROCHESTER INSTITUTE OF TECHNOLOGY | 31967-01 | 43 | RD | 6,878 | | |
| | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | 009036 | 43 | RD | 357 | | |
| | STANFORD UNIVERSITY | A00-1350-022 | 43 | RD | 146,823 | | |
| | THE UNIVERSITY OF ALABAMA (TUSCALOOSA) | A00-513-S001 | 43 | RD | 36,155 | | |
| | UNIVERSITIES SPACE RESEARCH ASSOCIATION | 89166 | 43 | RD | 178 | | |
| | UNIVERSITIES SPACE RESEARCH ASSOCIATION | SOF-06-0207 | 43 | RD | 8,834 | | |
| | UNIVERSITY OF ALASKA | UAF19-0015 | 43 | RD | 10,378 | | |
| | UNIVERSITY OF ARIZONA | A16-0505-002 | 43 | RD | 23,686 | | |
| | UNIVERSITY OF COLORADO BOULDER | 1000013136 | 43 | RD | 2,902,678 | | |
| | UNIVERSITY OF COLORADO BOULDER | 1000023229 | 43 | RD | 84,672 | | |
| | UNIVERSITY OF COLORADO BOULDER | 1000144280 | 43 | RD | 68,842 | | |
| | UNIVERSITY OF COLORADO BOULDER | 1557204 | 43 | RD | 44,183 | | |
| | UNIVERSITY OF DELAWARE | 48247 | 43 | RD | 2,443 | | |
| | UNIVERSITY OF MICHIGAN | SUBK00008080 | 43 | RD | 16,019 | | |
| | UNIVERSITY OF NEW HAMPSHIRE | 14-081 | 43 | RD | 17,200 | | |
| | UNIVERSITY OF WISCONSIN-MADISON | SUB 769K985 (NAS2-97001) | 43 | RD | 7,724 | | |
| | UNIVERSITY OF WISCONSIN-MADISON | 796K655 | 43 | RD | 7,913 | | |
| | VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY | 426699-19910 | 43 | RD | 45,018 | | |
| | WAKE FOREST UNIVERSITY | WVFUHS 113809 | 43 | RD | 4,296 | | |
| | WYLE LABORATORIES | SUB PO T72614 (NNX14AN75G) | 43 | RD | 4,998 | | |
| | MOSAIC MATERIALS | 044959 | 43 | RD | 14,451 | | |
| | SETI INSTITUTE | SC 3354 | 43 | RD | 5,691 | | |
| | SOUTHWEST SCIENCES, INC., | 045456 | 43 | RD | 31,778 | | |
| | CASCADE TECHNOLOGIES, INC. | SUB 20191757 (80NSSC18P1882) | 43 | RD | 30,759 | | |
| | CHARLES STARK DRAPER LABORATORY, INC. | SC001-0000001246 | 43 | RD | 35,711 | | |
| | MALIN SPACE SCIENCE SYSTEMS, INC. | 12-0256 | 43 | RD | 108,207 | | |
| | SPECTRAL ENERGIES, LLC | SB1812-001-1-CYC1 | 43 | RD | 9,367 | | |
| | | | | | 99,921,275 | 16,103,036 | |
| | NATIONAL AERONAUTICS & SPACE ADMINISTRATION Total | | | | 115,413,801 | 16,214,309 | |
| | NATIONAL FOUNDATION ON THE ARTS AND THE HUMANITIES | Passthrough/Partial Passthrough | | | | | |
| | | CALIFORNIA HUMANITIES | COS15-470 | 45 | 129 | 6,418 | |
| | | CALIFORNIA HUMANITIES | HFAQ12-13 | 45 | 129 | 7 | |
| | CALIFORNIA HUMANITIES | A18-0591-001 | 45 | 129 | 7,591 | | |
| | CALIFORNIA HUMANITIES | CDP17-11 | 45 | 129 | 10,196 | | |
| | CALIFORNIA HUMANITIES | SUB HFAP18-33(NONE) | 45 | 129 | 2,050 | | |
| | | | | | 26,262 | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | CALIFORNIA STATE LIBRARY | 009238 | 45 | 310 | 115,459 | | |
| | | | | | 115,459 | | |
| | Direct | | | | | | |
| | INSTITUTE OF MUSEUM AND LIBRARY SERVICES | VARIOUS | 45 | RD | 1,106,529 | 101,790 | |
| | NATIONAL FOUNDATION ARTS & HUMANITIES | VARIOUS | 45 | RD | 1,844,342 | 28,773 | |
| | Passthrough/Partial Passthrough | | | | | | |
| | CARNEGIE MELLON UNIVERSITY | 1080400-395143 | 45 | RD | 67,933 | | |
| | INDIANA UNIVERSITY BLOOMINGTON | BL-4348803-UCB | 45 | RD | 1,873 | | |
| | | | | | 3,020,677 | 130,562 | |
| NATIONAL FOUNDATION ON THE ARTS AND THE HUMANITIES Total | | | | 3,162,398 | 130,562 | | |
| NATIONAL SCIENCE FOUNDATION | Passthrough/Partial Passthrough | | | | | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | | |
|---------------------------------------|---|---|-------------------------------|-----------|----------------------|------------------------------------|---------|--|
| | | | Prefix | Extension | Federal Expenditures | | | |
| NATIONAL SCIENCE FOUNDATION | ARIZONA STATE UNIVERSITY/TEMPE | 15742 | 47 | 041 | 826,825 | 90,024 | | |
| | ARIZONA STATE UNIVERSITY/TEMPE | 17-026-02 | 47 | 041 | 27,185 | | | |
| | CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO STATE UNIVERSITY | S19-0001 | 47 | 041 | 20,633 | | | |
| | CARDIAC MOTION, LLC | 201403401 | 47 | 041 | 89,291 | | | |
| | CITY UNIVERSITY OF NEW YORK | 40E48-A | 47 | 041 | 117,634 | | | |
| | COLORADO STATE UNIVERSITY | 007837 | 47 | 041 | 90,394 | | | |
| | COLORADO STATE UNIVERSITY | G-00973-2 | 47 | 041 | 54,657 | | | |
| | CORNELL UNIVERSITY | 75855-10557 | 47 | 041 | 16,501 | | | |
| | CORNELL UNIVERSITY | 70369-10329:3 | 47 | 041 | 23,812 | | | |
| | GEORGIA INSTITUTE OF TECHNOLOGY | RG382-G1 | 47 | 041 | 116,049 | | | |
| | INSTON, INC | 59242 | 47 | 041 | 281 | | | |
| | IOWA STATE UNIVERSITY | 420-72-25-CYC15 | 47 | 041 | 86,772 | | | |
| | JOHNS HOPKINS UNIVERSITY | 88769 | 47 | 041 | -77,027 | | | |
| | KNOX MEDICAL DIAGNOSTICS INC | A130875 | 47 | 041 | 145,321 | | | |
| | KNOX MEDICAL DIAGNOSTICS INC | B8534 | 47 | 041 | -3,325 | | | |
| | NANOELECTRONICS RESEARCH CORPORATION | SUB 2016-NE-2701 (ECCS-1640173) | 47 | 041 | 62,514 | | 7,473 | |
| | NORTHWESTERN UNIVERSITY | SPO032077-PROJ0008536 | 47 | 041 | 96,904 | | | |
| | PURDUE UNIVERSITY | 85490 | 47 | 041 | 70,418 | | | |
| | STANFORD UNIVERSITY | 28139880-50542-C | 47 | 041 | 813,629 | | | |
| | STANFORD UNIVERSITY | SUB 61174008-120872 (CBET-1508) | 47 | 041 | 6,616 | | | |
| | STANFORD UNIVERSITY | 61613955-124096 | 47 | 041 | 121,893 | | | |
| | STANFORD UNIVERSITY | 85726 | 47 | 041 | 4,500 | | | |
| | TEXAS A&M UNIVERSITY - COLLEGE STATION | M1801370 | 47 | 041 | 1,133,942 | | | |
| | TEXAS A&M UNIVERSITY - COLLEGE STATION | SUB 28-M1803463 (EEC-1648016) | 47 | 041 | 61,001 | | | |
| | TRITON ALGAE INNOVATIONS, LLC | 874C3 | 47 | 041 | -6,182 | | | |
| | UNIVERSITY OF ARIZONA | SUB Y502629 (EEC-0812072) | 47 | 041 | 151,230 | | | |
| | UNIVERSITY OF ARIZONA | SUB 413309 (CMMI-1662816) | 47 | 041 | 130,872 | | | |
| | UNIVERSITY OF ARIZONA | SUB 454513(EFMA-1640860) | 47 | 041 | 102,243 | | | |
| | UNIVERSITY OF IDAHO | FEK232-SB-001:001 | 47 | 041 | 64,657 | | | |
| | UNIVERSITY OF ILLINOIS | 88710 | 47 | 041 | 27,299 | | | |
| | UNIVERSITY OF NOTRE DAME (INCL GEM) | 203435UCB | 47 | 041 | 33,698 | | | |
| | UNIVERSITY OF PENNSYLVANIA | SUB 567084 (EFMA-1542879) | 47 | 041 | 112,278 | | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 96586107 | 47 | 041 | 220,761 | | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 58669052-4 | 47 | 041 | 4,516 | | | |
| | UNIVERSITY OF TEXAS-AUSTIN | SUB UTA15-000855 (1520817) | 47 | 041 | 33,166 | | | |
| | UNIVERSITY OF TEXAS-AUSTIN | UTA12-000944 | 47 | 041 | 314,345 | | | |
| | UNIVERSITY OF TEXAS-AUSTIN | UTA15-000860 | 47 | 041 | 38,204 | | | |
| | UNIVERSITY OF TEXAS-AUSTIN | UTA18-000266-CYC1 | 47 | 041 | 1,894 | | | |
| | UNIVERSITY OF TEXAS-EL PASO | 226100998G | 47 | 041 | 20,754 | | | |
| | VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY | 480090-19B03 | 47 | 041 | 732 | | | |
| | SOUTH 8 TECHNOLOGIES, INC. | SUB 20172104 (1721646) | 47 | 041 | 14,230 | | | |
| | SOUTH 8 TECHNOLOGIES, INC. | SUIB 20183017(1831087) | 47 | 041 | 44,910 | | | |
| | HARVEY MUDD COLLEGE | 1745970 | 47 | 041 | 41,971 | | | |
| | BRAINLEAP TECHNOLOGIES, INC. | SUB 20181955 (IIP-1819842) | 47 | 041 | 67,439 | | | |
| | | | | | 5,325,437 | | 97,497 | |
| | | Passthrough/Partial Passthrough | | | | | | |
| | | 9 DOTS COMMUNITY LEARNING CENTER | 002 | 47 | 046 | | 30,008 | |
| | | | | | | | 30,008 | |
| | | Passthrough/Partial Passthrough | | | | | | |
| | | ASSOCIATED UNIVERSITIES, INC | SUB SOSPA4-006 (AST-1519126) | 47 | 049 | | 17,707 | |
| | | ASSOCIATED UNIVERSITIES, INC | 353517 | 47 | 049 | | 702 | |
| | | ASSOCIATED UNIVERSITIES, INC | SUB TBD (1519126) | 47 | 049 | | 15,997 | |
| | | ASSOCIATED UNIVERSITIES, INC | SOSPA6-003-CYC1 | 47 | 049 | | 1,489 | |
| | | ASSOCIATED UNIVERSITIES, INC | SUB VLA/17A-073 (AST-1519126) | 47 | 049 | | 7,657 | |
| | | ASSOCIATED UNIVERSITIES, INC | 360180 | 47 | 049 | | 24,546 | |
| | | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | N56981C | 47 | 049 | | 376,330 | |
| | | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | A17-0909-002 | 47 | 049 | | 57,133 | |
| | | BARNARD COLLEGE | A19-0334-001 | 47 | 049 | | 17,969 | |
| | | BAYLOR UNIVERSITY | SUB 30240114-1 (1740203) | 47 | 049 | | 20,390 | |
| | | CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY | A18-0926-001 | 47 | 049 | | 241,522 | |
| | | CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY | 13401:3 | 47 | 049 | | 83,927 | |
| | CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY | A19-0370-001 | 47 | 049 | 8,038 | | | |
| | CALIFORNIA INSTITUTE OF TECHNOLOGY | 44Q-1092164 | 47 | 049 | 120,999 | | | |
| | CALIFORNIA INSTITUTE OF TECHNOLOGY | 68D1094593 | 47 | 049 | 97,422 | | | |
| | CALIFORNIA INSTITUTE OF TECHNOLOGY | A17-0921-001 | 47 | 049 | 50,720 | | | |
| | CITY UNIVERSITY OF NEW YORK | CM00001662-00-CYC1 | 47 | 049 | 18,112 | | | |
| | COLUMBIA UNIVERSITY | 77976 | 47 | 049 | -2 | | | |
| | CORNELL UNIVERSITY | 009069 | 47 | 049 | 4,823 | | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---------------------------------------|--|---|-----------------------|-----------|----------------------|------------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| NATIONAL SCIENCE FOUNDATION | CORNELL UNIVERSITY | 75548-10820:1 | 47 | 049 | 261,782 | | |
| | CORNELL UNIVERSITY | 78877-10862:1 | 47 | 049 | 69,650 | | |
| | CORNELL UNIVERSITY | 78877-10879 | 47 | 049 | 5,860 | | |
| | EMORY UNIVERSITY | 79741 | 47 | 049 | -7,514 | | |
| | EMORY UNIVERSITY | A025589:1 | 47 | 049 | 154,898 | | |
| | JACKSON STATE UNIVERSITY | 633215-UCSB | 47 | 049 | 25,434 | | |
| | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | 5710003959 | 47 | 049 | 207,546 | | |
| | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | 5710003976 | 47 | 049 | 67,881 | | |
| | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | 5710004001:2 | 47 | 049 | 60,037 | | |
| | NEVADA SYSTEM OF HIGHER EDUCATION | UNR 18-25 | 47 | 049 | 65,742 | | |
| | NORTHWESTERN UNIVERSITY | SUB SP0044956-PROJ0013413(DMR- | 47 | 049 | 46,178 | | |
| | OHIO STATE UNIVERSITY | 60046614:04 | 47 | 049 | 27,894 | | |
| | OREGON STATE UNIVERSITY | S1891A-D | 47 | 049 | 60,783 | | |
| | OREGON STATE UNIVERSITY | S1891AE | 47 | 049 | 43,388 | | |
| | OREGON STATE UNIVERSITY | 009533 | 47 | 049 | 24,724 | | |
| | PENNSYLVANIA STATE UNIVERSITY | 5148-UCB-NSF-0620 | 47 | 049 | 37,145 | | |
| | PENNSYLVANIA STATE UNIVERSITY | 5182-UC-NSF-0620-CYC3 | 47 | 049 | 145,277 | | |
| | PRINCETON UNIVERSITY | SUB 0000182(PHY-1624356) | 47 | 049 | 1,478,999 | | |
| | PRINCETON UNIVERSITY | 87983 | 47 | 049 | 7,162 | | |
| | STANFORD UNIVERSITY | 61941275-134448 | 47 | 049 | 312 | | |
| | STONY BROOK UNIVERSITY (A STATE UNIVERSITY OF NEW YORK CAMPUS) | 76749/1136652/2-CYC3 | 47 | 049 | 74,755 | | |
| | TEXAS A&M UNIVERSITY - COLLEGE STATION | 285172803 | 47 | 049 | 12,263 | | |
| | TEXAS A&M UNIVERSITY - COLLEGE STATION | 025170204 | 47 | 049 | 59,310 | | |
| | UNIVERSITY OF COLORADO BOULDER | 1554565 | 47 | 049 | 1,253,855 | | |
| | UNIVERSITY OF COLORADO BOULDER | 1554568-CYC3 | 47 | 049 | 205,085 | | |
| | UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE) | 1554564:2 | 47 | 049 | 1,544,003 | | |
| | UNIVERSITY OF FLORIDA | UFDSPO0011774 | 47 | 049 | 39,350 | | |
| | UNIVERSITY OF FLORIDA | SUB00001607 | 47 | 049 | 31,710 | | |
| | UNIVERSITY OF MARYLAND | A00-1404-007 | 47 | 049 | -701 | | |
| | UNIVERSITY OF MICHIGAN | 3003700329 | 47 | 049 | 51,073 | | |
| | UNIVERSITY OF MICHIGAN | 3003700330-CYC1 | 47 | 049 | 23,423 | | |
| | UNIVERSITY OF MINNESOTA | 30919 | 47 | 049 | 26,139 | | |
| | UNIVERSITY OF MINNESOTA | A007231601 | 47 | 049 | 22,525 | | |
| | UNIVERSITY OF MISSOURI | C00047906-1 | 47 | 049 | -21,669 | | |
| | UNIVERSITY OF NEBRASKA | 009450 | 47 | 049 | 2,400 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 78356329:1 | 47 | 049 | 10,069 | | |
| | UNIVERSITY OF TEXAS-EL PASO | 226100973B | 47 | 049 | 97,368 | | |
| | UNIVERSITY OF TEXAS-EL PASO | 226100993A | 47 | 049 | 43,589 | | |
| | UNIVERSITY OF WASHINGTON | UWSC9674:2 | 47 | 049 | 111,249 | | |
| | UNIVERSITY OF WISCONSIN-MADISON | SUB 408K133 (PHY-1148698) | 47 | 049 | 384,356 | | |
| | UNIVERSITY OF WISCONSIN-MADISON | 010364 | 47 | 049 | 97,465 | | |
| | UNIVERSITY OF WISCONSIN-MADISON | 726K305-CYC2 | 47 | 049 | 178,180 | | |
| | UNIVERSITY OF WISCONSIN-MADISON | 838K073-CYC1 | 47 | 049 | 62,600 | | |
| | WEST VIRGINIA UNIVERSITY | 63568 | 47 | 049 | 30,606 | | |
| | UNIVERSITY OF NEBRASKA-LINCOLN | UNL-209765-CYC1 | 47 | 049 | 1,042 | | |
| | MATHEMATICAL SCIENCE RESEARCH INSTITUTE, THE | 81018 | 47 | 049 | 1,420 | | |
| | | | | | | 8,290,129 | |
| | | Passthrough/Partial Passthrough | | | | | |
| | | ARIZONA STATE UNIVERSITY/TEMPE | 006585 | 47 | 050 | 20,878 | |
| | | ARIZONA STATE UNIVERSITY/TEMPE | 16-001 | 47 | 050 | 26,505 | |
| | | ARIZONA STATE UNIVERSITY/TEMPE | 17-170 | 47 | 050 | 17,198 | |
| | | CALIFORNIA STATE UNIVERSITY, SAN JOSE STATE UNIVERSITY FOUNDATION | A18-0010-001 | 47 | 050 | 8,120 | |
| | | COLORADO STATE UNIVERSITY | G-96783-2 | 47 | 050 | 8,428 | |
| | | COLORADO STATE UNIVERSITY | G-96783-1 | 47 | 050 | 3,776 | |
| | | COLUMBIA UNIVERSITY | 2(GG009393-01) | 47 | 050 | 115,544 | |
| | | COLUMBIA UNIVERSITY | 3 (GG008992) | 47 | 050 | 187,050 | |
| | | COLUMBIA UNIVERSITY | 3(GG008855) | 47 | 050 | 89,523 | |
| | | COLUMBIA UNIVERSITY | 1(GG013222) PO G12700 | 47 | 050 | 628,739 | |
| | | COLUMBIA UNIVERSITY | A15-0275-001 | 47 | 050 | 113,588 | |
| | | COLUMBIA UNIVERSITY | A18-0526-001 | 47 | 050 | 3,452 | |
| | | COLUMBIA UNIVERSITY | 1(GG013237) PO G12813 | 47 | 050 | 440,229 | |
| | | COLUMBIA UNIVERSITY | 46(GG009393):2 | 47 | 050 | -51 | |
| | | COLUMBIA UNIVERSITY | 63548 | 47 | 050 | 3,880 | |
| | COLUMBIA UNIVERSITY | 86952 | 47 | 050 | 14,091 | | |
| | COLUMBIA UNIVERSITY | A17-0484-004 | 47 | 050 | 25,605 | | |
| | COLUMBIA UNIVERSITY | A17-0707-004 | 47 | 050 | 5,473 | | |
| | CONSORTIUM FOR OCEAN LEADERSHIP | 88875 | 47 | 050 | 5 | | |
| | CONSORTIUM FOR OCEAN LEADERSHIP | 87165 | 47 | 050 | -2 | | |
| | CONSORTIUM FOR OCEAN LEADERSHIP | 87183 | 47 | 050 | 1 | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|--|---|--|----------------|------------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| NATIONAL SCIENCE FOUNDATION | CORNELL UNIVERSITY | 78328-10838 | 47 | 050 | 103,122 | |
| | CORNELL UNIVERSITY | A17-0542-001 | 47 | 050 | 49,612 | |
| | DUKE UNIVERSITY | SUB 333-2419 (1721611) | 47 | 050 | 23,940 | |
| | INCORPORATED RESEARCH INSTITUTIONS FOR SEISMOLOGY | 08-UCSD-SAGE | 47 | 050 | 1,851,275 | |
| | INCORPORATED RESEARCH INSTITUTIONS FOR SEISMOLOGY | 09-UCSD (MD)-SAGE | 47 | 050 | 568,758 | |
| | INCORPORATED RESEARCH INSTITUTIONS FOR SEISMOLOGY | IRIS 56-OMO | 47 | 050 | 877,035 | |
| | INCORPORATED RESEARCH INSTITUTIONS FOR SEISMOLOGY | SU-19-1001-08-UCSD, TASK ORDER | 47 | 050 | 2,129,241 | |
| | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | 5710003955 | 47 | 050 | 88,387 | |
| | NEW YORK UNIVERSITY | F0691-04-CYC1 | 47 | 050 | 40,420 | |
| | NORTHERN ARIZONA UNIVERSITY | A16-0498-003 | 47 | 050 | 51,161 | |
| | PENNSYLVANIA STATE UNIVERSITY | 5038-UC-NSF-0507 | 47 | 050 | 80,279 | |
| | PORTLAND STATE UNIVERSITY | 207LO1582:1 | 47 | 050 | 11,823 | |
| | PRINCETON UNIVERSITY | SUB0000008 | 47 | 050 | 747,583 | |
| | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | 0696 | 47 | 050 | 25,981 | |
| | STANFORD UNIVERSITY | 61573650-125839 | 47 | 050 | 6,250 | |
| | TUFTS UNIVERSITY | NS3819 | 47 | 050 | 32,124 | |
| | UNAVCO, INC. | UNAVCO S13-EAR1261833-S3 | 47 | 050 | 63,410 | |
| | UNIVERSITY AT BUFFALO (A STATE UNIVERSITY OF NEW YORK CAMPUS) | R983146 | 47 | 050 | 165,272 | |
| | UNIVERSITY CORPORATION FOR ATMOSPHERIC RESEARCH | SUBAWD000572-CYC1 | 47 | 050 | 58,957 | |
| | UNIVERSITY CORPORATION FOR ATMOSPHERIC RESEARCH | Z16-21927-CYC3 | 47 | 050 | 7,329 | |
| | UNIVERSITY OF ALASKA | A18-0011-001 | 47 | 050 | 2,266 | |
| | UNIVERSITY OF CHICAGO | FP052668 | 47 | 050 | 51,591 | |
| | UNIVERSITY OF CHICAGO | FP052668-D | 47 | 050 | 221,440 | |
| | UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE) | 1553802 | 47 | 050 | 796 | |
| | UNIVERSITY OF HAWAII AT HILO | MA1129 | 47 | 050 | 21,883 | |
| | UNIVERSITY OF HAWAII AT MANOA | MA 1392 | 47 | 050 | 54,984 | |
| | UNIVERSITY OF ILLINOIS | 2014-04289-03-00 | 47 | 050 | 123 | |
| | UNIVERSITY OF MARYLAND | 009242 | 47 | 050 | 27,309 | |
| | UNIVERSITY OF MIAMI | S15-49 | 47 | 050 | 101,899 | |
| | UNIVERSITY OF MIAMI | S15-50 | 47 | 050 | 200,082 | |
| | UNIVERSITY OF NEW HAMPSHIRE | 14-063 | 47 | 050 | 72,479 | |
| | UNIVERSITY OF NEW HAMPSHIRE | 16-001 | 47 | 050 | 42,089 | |
| | UNIVERSITY OF NEW HAMPSHIRE | 17-014 | 47 | 050 | 57,514 | |
| | UNIVERSITY OF NEW MEXICO | 133660-8730 | 47 | 050 | 15,949 | |
| | UNIVERSITY OF NEW MEXICO | A17-0628-002 | 47 | 050 | 232,779 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 63134 | 47 | 050 | -23 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 009417 | 47 | 050 | 18,439 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 91272867 | 47 | 050 | 4,308 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | LIU-90703282:1 | 47 | 050 | 12,133 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 100670135 | 47 | 050 | 93,036 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 009416 | 47 | 050 | 13,461 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 010008 | 47 | 050 | 849 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 010060 | 47 | 050 | 16,116 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 81854 | 47 | 050 | 2,948 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 90703282:2 | 47 | 050 | 27,000 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | A00-0936-016 | 47 | 050 | 6,802 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | A00-0936-017 | 47 | 050 | 33,011 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | A17-0917-003 | 47 | 050 | 76,221 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 90703282:3 | 47 | 050 | 21,999 | |
| | UNIVERSITY OF TEXAS-AUSTIN | 96412 | 47 | 050 | 769 | |
| UNIVERSITY OF UTAH | 10043668 | 47 | 050 | 99,201 | | |
| UNIVERSITY OF WASHINGTON | UWSC10548 | 47 | 050 | 49,963 | | |
| WOODS HOLE OCEANOGRAPHIC INSTITUTION | A101360 | 47 | 050 | 294,019 | | |
| WOODS HOLE OCEANOGRAPHIC INSTITUTION | A101369 | 47 | 050 | 118,260 | | |
| WOODS HOLE OCEANOGRAPHIC INSTITUTION | A101436 | 47 | 050 | 270,150 | | |
| YALE UNIVERSITY | 009738 | 47 | 050 | 9,762 | | |
| SOUTHERN CALIFORNIA EARTHQUAKE CENTER | 91269673 | 47 | 050 | 71,628 | | |
| INTEGRATED OCEAN DRILLING PROGRAM | 82745 | 47 | 050 | -704 | | |
| UNIVERSITY OF HAWAII - WEST OAHU | MA 1389 | 47 | 050 | 28,991 | | |
| UNIVERSITY OF NORTH CAROLINA AT WILMINGTON | 579090-19-01 | 47 | 050 | 22,288 | | |
| UNIVERSITY OF RHODE ISLAND | A18-0921-001 | 47 | 050 | 40,113 | | |
| | | | | 11,127,914 | 2,485 | |
| Passthrough/Partial Passthrough | | | | | | |
| BINGHAMTON UNIVERSITY | 007239 | 47 | 070 | 13,454 | | |
| CORNELL UNIVERSITY | 76221-10547 | 47 | 070 | 101,711 | | |
| HDF GROUP | 59266 | 47 | 070 | 85,260 | | |
| INDIANA UNIVERSITY | UA4812506UCD | 47 | 070 | 39,061 | | |
| INDIANA UNIVERSITY | SUB BL4812537UCSD (OAC-1840034 | 47 | 070 | 61,250 | | |
| MASSACHUSETTS INSTITUTE OF TECHNOLOGY | SUB 72401 (CNS1413905) | 47 | 070 | 18,241 | | |

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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---------------------------------------|---|--|----------------------------|-----------|----------------------|------------------------------------|-----------|
| | | | Prefix | Extension | Federal Expenditures | | |
| NATIONAL SCIENCE FOUNDATION | MICHIGAN STATE UNIVERSITY | SUB RC108911UCSD (OAC-1835144) | 47 | 070 | | 17,864 | |
| | NORTHWESTERN UNIVERSITY | SPO029341 PROJ0007719 (ACI-145 | 47 | 070 | | 244,055 | |
| | NORTHWESTERN UNIVERSITY | 010367 | 47 | 070 | | 9,718 | |
| | NORTHWESTERN UNIVERSITY | 010715 | 47 | 070 | | 28,082 | |
| | OLD DOMINION UNIVERSITY RESEARCH FOUNDATION | SUB 17-123-100613-010(1608140) | 47 | 070 | | 2,882 | |
| | PRINCETON UNIVERSITY | A19-0420-001 | 47 | 070 | | 185,542 | |
| | PRINCETON UNIVERSITY | SUB 0000269(OCA-1836650) | 47 | 070 | | 206,785 | |
| | PURDUE UNIVERSITY | SUB 4101-38049 (CCF-0939370) | 47 | 070 | | 208,020 | |
| | PURDUE UNIVERSITY | 10000686-018 | 47 | 070 | | 350,138 | |
| | RESEARCH FOUNDATION FOR STATE UNIVERSITY OF NEW YORK, THE | A18-2647 | 47 | 070 | | 132,508 | |
| | RICE UNIVERSITY | 80013 | 47 | 070 | | 495,479 | |
| | RICE UNIVERSITY | R3F773 | 47 | 070 | | 69,143 | |
| | UNIVERSITY OF CONNECTICUT | 96324 | 47 | 070 | | 75,752 | |
| | UNIVERSITY OF ILLINOIS | 078343-15668 | 47 | 070 | | 175,061 | |
| | UNIVERSITY OF ILLINOIS | SUB 083842-16110(ACI-1548562) | 47 | 070 | | 2,809,997 | |
| | UNIVERSITY OF ILLINOIS | SUB 094096-17249 (1764055) | 47 | 070 | | 47,296 | |
| | UNIVERSITY OF ILLINOIS AT CHICAGO | SUB 20151074 (CNS-1456638) | 47 | 070 | | 67,082 | |
| | UNIVERSITY OF IOWA | 1001745125:1 | 47 | 070 | | 143,930 | |
| | UNIVERSITY OF MASSACHUSETTS AMHERST | 13-007361 A 00-CYC7 | 47 | 070 | | 24,433 | |
| | UNIVERSITY OF MEMPHIS | 20163902 | 47 | 070 | | 55,145 | |
| | UNIVERSITY OF MEMPHIS | A126878 | 47 | 070 | | 73,041 | |
| | UNIVERSITY OF MICHIGAN | 3004636405-CYC1 | 47 | 070 | | 32,259 | |
| | UNIVERSITY OF MISSOURI | SUB C00058703-1 (730655) | 47 | 070 | | 25,344 | |
| | UNIVERSITY OF MISSOURI | 87342 | 47 | 070 | | 52,935 | |
| | UNIVERSITY OF NEW MEXICO | 007941 | 47 | 070 | | 45,416 | |
| | UNIVERSITY OF NEW MEXICO | 063045-873R | 47 | 070 | | 651,358 | |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5105700 | 47 | 070 | | 102,875 | |
| | UNIVERSITY OF NOTRE DAME (INCL GEM) | 202917UCI-CYC1 | 47 | 070 | | 132,670 | |
| | UNIVERSITY OF SOUTH FLORIDA | 2106-1251-00-A:1 | 47 | 070 | | 29,169 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 20154552 | 47 | 070 | | 1,399 | |
| | UNIVERSITY OF TEXAS-AUSTIN | UTA16-000755:1 | 47 | 070 | | -1,293 | |
| | UNIVERSITY OF TEXAS-AUSTIN | UTA18-001252-CYC1 | 47 | 070 | | 12,265 | |
| | UNIVERSITY OF UTAH | 10037670-UCI-CYC1 | 47 | 070 | | 1,184 | |
| | UNIVERSITY OF UTAH | 10038993-UCI-CYC1 | 47 | 070 | | 359 | |
| | UNIVERSITY OF WASHINGTON | UWSC9467 | 47 | 070 | | 112,203 | |
| | UNIVERSITY OF WASHINGTON | UWSC9942 | 47 | 070 | | 10,734 | |
| | UNIVERSITY OF WISCONSIN-MADISON | SUB 855K724(1506657) | 47 | 070 | | 75,122 | |
| | VANDERBILT UNIVERSITY | UNIV59076 | 47 | 070 | | 40,419 | |
| | VANDERBILT UNIVERSITY | 3833-019899:1 | 47 | 070 | | 75,081 | |
| | VIRGINIA COMMONWEALTH UNIVERSITY | SUB FP00008963_SA001 (1902395) | 47 | 070 | | 22,968 | |
| | VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY | 479589-19910 | 47 | 070 | | 126,630 | |
| | VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY | 479589-19905-CYC1 | 47 | 070 | | 54,386 | |
| | VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY | SUB 478589-19A28 (ACI-1547580) | 47 | 070 | | 57,006 | |
| | VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY | 479590-19905A-CYC2 | 47 | 070 | | 50,719 | |
| | VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY | 009994 | 47 | 070 | | 25,625 | |
| | VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY | 85801 | 47 | 070 | | 26,070 | |
| | ASSOCIATION OF AMERICAN GEOGRAPHERS | 010352 | 47 | 070 | | 5,114 | |
| | INTERNET2 | SUB 1042-E (1904444) | 47 | 070 | | 18,831 | |
| | | | | | | | 7,527,780 |
| | | Passthrough/Partial Passthrough | | | | | |
| | | UNIVERSITY OF ARIZONA | Y503161 | 47 | 071 | | 82,658 |
| | | | | | | | 82,658 |
| | | Passthrough/Partial Passthrough | | | | | |
| | | AMERICAN SOCIETY FOR CELL BIOLOGY | 201400396 | 47 | 074 | | 26,918 |
| | | ARIZONA STATE UNIVERSITY/TEMPE | 17184 | 47 | 074 | | 97 |
| | | ARIZONA STATE UNIVERSITY/TEMPE | DEB1414374 | 47 | 074 | | 51,670 |
| | | BARNARD COLLEGE | UCD1455957 | 47 | 074 | | 39,650 |
| | | BROWN UNIVERSITY | B6058 | 47 | 074 | | -437 |
| | | BROWN UNIVERSITY | SUB 00001351 (DBI-1707352) | 47 | 074 | | 105,740 |
| | | CARY INSTITUTE OF ECOSYSTEM STUDIES | 1637661 | 47 | 074 | | 2,219 |
| | | CHAPMAN UNIVERSITY | 81734 | 47 | 074 | | 46 |
| | | CLEMSON UNIVERSITY | 2008-206-2012311 | 47 | 074 | | 29,834 |
| | | COLORADO STATE UNIVERSITY | G-4023-2 | 47 | 074 | | 590 |
| | | CORNELL UNIVERSITY | 6718310110 | 47 | 074 | | 493,256 |
| | | CORNELL UNIVERSITY | 1822330 | 47 | 074 | | 1,345 |
| | | FLORIDA INTERNATIONAL UNIVERSITY | 800001404-05UG | 47 | 074 | | 16,923 |
| | | FLORIDA STATE UNIVERSITY | 008063 | 47 | 074 | | 68,426 |
| | FLORIDA STATE UNIVERSITY | 86634 | 47 | 074 | | 81,120 | |

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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---------------------------------------|--|--|------------------------------|-----------|----------------------|------------------------------------|--------|
| | | | Prefix | Extension | Federal Expenditures | | |
| NATIONAL SCIENCE FOUNDATION | HARVARD UNIVERSITY | 111269-5110907 | 47 | 074 | 68,805 | | |
| | IOWA STATE UNIVERSITY | 420-40-45D | 47 | 074 | 263,665 | | |
| | IOWA STATE UNIVERSITY | 009496 | 47 | 074 | 171,365 | | |
| | J. CRAIG VENTER INSTITUTE | JCVI-19-005 | 47 | 074 | 37,349 | | |
| | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | 5710003122 | 47 | 074 | 24,035 | | |
| | NORTHERN ARIZONA UNIVERSITY | 63394 | 47 | 074 | 7,864 | | |
| | OHIO STATE UNIVERSITY | 60061209 | 47 | 074 | 37,814 | | |
| | OKLAHOMA STATE UNIVERSITY | AA-5-54654 | 47 | 074 | 69,630 | | |
| | PURDUE UNIVERSITY | 4101-81438 | 47 | 074 | 23,747 | | |
| | RICE UNIVERSITY | SUB R3G401 (MCB-1616755) | 47 | 074 | 88,175 | | |
| | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | 0913 | 47 | 074 | 1,533 | | |
| | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | SUB 0912 (DBI-1832184) | 47 | 074 | 656,594 | | |
| | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | SUB 5283 (DBI-1338415) | 47 | 074 | 918,383 | | |
| | STANFORD UNIVERSITY | 61091724-118374:2 | 47 | 074 | 17,524 | | |
| | THE NATIONAL MARINE MAMMAL FOUNDATION | NSF-1656077-1 | 47 | 074 | 1,186 | | |
| | TUFTS UNIVERSITY | A19-0780-001 | 47 | 074 | 1,113 | | |
| | UNIVERSITY AT BUFFALO (A STATE UNIVERSITY OF NEW YORK CAMPUS) | R877841 | 47 | 074 | 25,401 | | |
| | UNIVERSITY AT BUFFALO (A STATE UNIVERSITY OF NEW YORK CAMPUS) | R1092333 | 47 | 074 | 150,359 | | |
| | UNIVERSITY OF ARIZONA | 152976 | 47 | 074 | 16,347 | | |
| | UNIVERSITY OF ARIZONA | 357961 | 47 | 074 | 130,753 | | |
| | UNIVERSITY OF COLORADO BOULDER | 1556974 | 47 | 074 | 114,778 | | |
| | UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE) | 1556857 | 47 | 074 | 116,460 | | |
| | UNIVERSITY OF FLORIDA | B7640 | 47 | 074 | 53 | | |
| | UNIVERSITY OF FLORIDA | A18-0936-001 | 47 | 074 | 74,660 | | |
| | UNIVERSITY OF GEORGIA | 007057 | 47 | 074 | 78,370 | | |
| | UNIVERSITY OF GEORGIA | 39A78 | 47 | 074 | 17,690 | | |
| | UNIVERSITY OF ILLINOIS | SUB 092605-17118 (1818344) | 47 | 074 | 40,134 | | |
| | UNIVERSITY OF MAINE SYSTEM | UMS-1046 | 47 | 074 | 85,978 | | |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | SUB 5-37293 (IOS-1343020) | 47 | 074 | -1 | | |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5108645 | 47 | 074 | 150,982 | | |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5111338 | 47 | 074 | 10,086 | | |
| | UNIVERSITY OF NOTRE DAME (INCL GEM) | 202236 | 47 | 074 | 9,256 | | |
| | UNIVERSITY OF PUERTO RICO | 2016-002 | 47 | 074 | 70,353 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 64141351 | 47 | 074 | -272 | | |
| | UNIVERSITY OF TENNESSEE | A150127S001 | 47 | 074 | 27,080 | | |
| | UNIVERSITY OF WASHINGTON | 1748843 | 47 | 074 | 9,199 | | |
| | UNIVERSITY OF WISCONSIN-MADISON | 692K182 | 47 | 074 | 106,141 | | |
| | UNIVERSITY OF WYOMING | 1002790A | 47 | 074 | 43,997 | | |
| | UNIVERSITY OF WYOMING | 1547796 | 47 | 074 | 61,536 | | |
| | WASHINGTON STATE UNIVERSITY | 127507-G003626 | 47 | 074 | 77,547 | | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | 008615 | 47 | 074 | 9,129 | | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | 009658 | 47 | 074 | 57,593 | | |
| | CALIFORNIA STATE UNIVERSITY FULLERTON/CSU FULLERTON AUXILIARY SERVICES | S-6824-UCD | 47 | 074 | 28,808 | | |
| | | | | | | 4,818,595 | |
| | | Passthrough/Partial Passthrough | | | | | |
| | | ARIZONA STATE UNIVERSITY/TEMPE | 16-823-02 | 47 | 075 | 11,752 | |
| | | BOSTON UNIVERSITY | 007901 | 47 | 075 | 9,401 | |
| | | BOSTON UNIVERSITY | SUB 4500001956 (SMA-1540920) | 47 | 075 | 11,360 | |
| | | CARNEGIE MELLON UNIVERSITY | 1123278-399794-CYC1 | 47 | 075 | 29,908 | |
| | | CORNELL UNIVERSITY | 1823489 | 47 | 075 | 54,711 | |
| | | HARVARD UNIVERSITY | 133873-5090398 | 47 | 075 | -6,961 | |
| | | HARVARD UNIVERSITY | 108151-5108138-CYC1 | 47 | 075 | 35,090 | |
| | | HASKINS LABORATORIES, INC | 1-A215 | 47 | 075 | 25,782 | |
| | | JOHNS HOPKINS UNIVERSITY | 2003169999 | 47 | 075 | 13,296 | |
| | | RICE UNIVERSITY | R3F755 | 47 | 075 | 104,408 | |
| | | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | 0080 | 47 | 075 | 32,427 | |
| | | STANFORD UNIVERSITY | 61343100-122890-CYC1 | 47 | 075 | 187,397 | |
| | | STATE UNIVERSITY OF NEW YORK | 550-1142143-79134 | 47 | 075 | 73,714 | 68,205 |
| | | UNIVERSITY OF ARIZONA | 1922439 | 47 | 075 | 37,223 | |
| | | UNIVERSITY OF FLORIDA | 009493 | 47 | 075 | 13,129 | |
| | UNIVERSITY OF HOUSTON | 57587 | 47 | 075 | 343 | | |
| | UNIVERSITY OF MINNESOTA | A005858801 | 47 | 075 | 73,879 | | |
| | UNIVERSITY OF TEXAS-AUSTIN | 1719654 | 47 | 075 | 13,167 | | |
| | UNIVERSITY OF VIRGINIA | SUB GA11260.157003(SMA-1735786) | 47 | 075 | 25,575 | | |
| | UNIVERSITY OF WASHINGTON | A17-0315-002 | 47 | 075 | 11,749 | | |
| | UNIVERSITY OF WISCONSIN-MADISON | 57562 | 47 | 075 | 20,272 | | |
| | VANDERBILT UNIVERSITY | SUB 58534 (1640681) | 47 | 075 | 36,594 | | |
| | UNIVERSITY OF COLORADO COLORADO SPRINGS | 18-089-001 | 47 | 075 | 15,262 | | |
| | CLARK UNIVERSITY | 2A325-7533 | 47 | 075 | 34,742 | | |

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|---------------------------------------|---|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| NATIONAL SCIENCE FOUNDATION | | | | | 864,219 | 68,205 |
| | Passthrough/Partial Passthrough | | | | | |
| | AMERICAN MUSEUM OF NATURAL HISTORY | 3-2014 | 47 | 076 | 81,972 | |
| | CITY COLLEGE OF THE CITY UNIVERSITY OF NEW YORK, THE | SUB 40F51-A (DUE-1524779) | 47 | 076 | 1,153 | |
| | COLORADO STATE UNIVERSITY | G-96702-4 | 47 | 076 | 33,447 | |
| | CONCORD CONSORTIUM, THE | 282-02 | 47 | 076 | 81,688 | |
| | EDUCATION DEVELOPMENT CENTER, INC. | 11826 | 47 | 076 | 161,400 | |
| | HARVARD UNIVERSITY | 123930-5097974-CYC2 | 47 | 076 | 2,936 | |
| | MICHIGAN STATE UNIVERSITY | RC104101UCB | 47 | 076 | 93,346 | |
| | MICHIGAN STATE UNIVERSITY | 96008 | 47 | 076 | 12,431 | |
| | NATIONAL UNIVERSITY | 2022-01-02-03-2019-2021 | 47 | 076 | 354 | |
| | PENNSYLVANIA STATE UNIVERSITY | 5510-UCI-NSF-4355-CYC1 | 47 | 076 | 88,447 | |
| | PENNSYLVANIA STATE UNIVERSITY | 5864-UCI-NSF-1012-CYC1 | 47 | 076 | 39,908 | |
| | RAND CORP | 9920160031:03 | 47 | 076 | 40,477 | |
| | SRI INTERNATIONAL | PO20589 | 47 | 076 | 110,265 | |
| | UNIVERSITY OF KANSAS/KU CENTER FOR RESEARCH, INC. | FY2016056 | 47 | 076 | 23,221 | |
| | UNIVERSITY OF MARYLAND | 49427-Z3016202 | 47 | 076 | 21,280 | |
| | UNIVERSITY OF MICHIGAN | 3003593049 | 47 | 076 | 34,898 | |
| | UNIVERSITY OF MICHIGAN | SUB 3004501602(DRL-1743150) | 47 | 076 | 34,812 | |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5105374 | 47 | 076 | -175 | |
| | UNIVERSITY OF SAN DIEGO | F12078-U2013-005 | 47 | 076 | 25,794 | |
| | UNIVERSITY OF SAN DIEGO | MARSS1172-U2014-003 | 47 | 076 | 33,746 | |
| | UNIVERSITY OF SAN DIEGO | A19-0783-001 | 47 | 076 | 817 | |
| | UNIVERSITY OF SAN DIEGO | MATHS1230 | 47 | 076 | 998 | |
| | UNIVERSITY OF WASHINGTON | UWSC10468-CYC1 | 47 | 076 | 56,021 | |
| | WESTED | S-00014572-CYC2 | 47 | 076 | 62,281 | |
| | WGBH EDUCATIONAL FOUNDATION | K201700254 | 47 | 076 | 59,978 | |
| | WGBH EDUCATIONAL FOUNDATION | K201803096 | 47 | 076 | 44,156 | |
| | FOUNDATION FOR CALIFORNIA COMMUNITY COLLEGES | SUB NS-017-17 (DUE-1645083) | 47 | 076 | 52,284 | |
| | RIVERSIDE COMMUNITY COLLEGE DISTRICT | 87324 | 47 | 076 | 895 | |
| | | | | | 1,198,831 | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY | SA0000200:11 | 47 | 079 | 331,279 | |
| | CRDF GLOBAL | OISE-16-62791-0 | 47 | 079 | 19,402 | |
| | KANSAS STATE UNIVERSITY | 1743701 | 47 | 079 | 112,663 | |
| | UNIVERSITY OF DELAWARE | SUB 51656(1844463) | 47 | 079 | 93,103 | |
| | UNIVERSITY OF PITTSBURGH | 0055445 | 47 | 079 | 166,982 | |
| | | | | | 723,429 | |
| | Passthrough/Partial Passthrough | | | | | |
| | BOISE STATE UNIVERSITY | 6800-PO124352 | 47 | 083 | 58,160 | |
| | PENNSYLVANIA STATE UNIVERSITY | 008449 | 47 | 083 | 139,857 | |
| | PENNSYLVANIA STATE UNIVERSITY | 86702 | 47 | 083 | 40,355 | |
| | TEXAS A&M UNIVERSITY - COLLEGE STATION | 009285 | 47 | 083 | 155,591 | |
| | UNIVERSITY OF ILLINOIS | 077340-15579 | 47 | 083 | 97,634 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 72781708 | 47 | 083 | 2,774 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | A16-0468-006 | 47 | 083 | 214,045 | |
| | | | | | 708,418 | |
| | Direct | | | | | |
| | NATIONAL SCIENCE FOUNDATION | VARIOUS | 47 | RD | 461,295,685 | 31,389,562 |
| | NATIONAL SCIENCE FOUNDATION | VARIOUS | 47 | RD | 654,694 | |
| | Passthrough/Partial Passthrough | | | | | |
| | AMERICAN PHYSICAL SOCIETY | 1622510 | 47 | RD | 10,198 | |
| | ASSOCIATED UNIVERSITIES, INC | 358709 | 47 | RD | 18,984 | |
| | ASTRONOMICAL SOCIETY OF THE PACIFIC, THE | 63302 | 47 | RD | 23,884 | |
| | BIOINSPIRA, INC. | 042894 | 47 | RD | 244,884 | |
| | BOSTON UNIVERSITY | 4500002865 | 47 | RD | 188,143 | |
| | CARLETON COLLEGE | 28-1773 | 47 | RD | 2,163 | |
| | CORNELL UNIVERSITY | 71423-11142 | 47 | RD | 16,970 | |
| | DUKE UNIVERSITY | 333-2455 | 47 | RD | 79,967 | |
| | EMORY UNIVERSITY | A025454 | 47 | RD | 66,950 | |
| | HARVARD UNIVERSITY | 130783-5097125 | 47 | RD | 25,956 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 89244 | 47 | RD | 2,602 | |
| | KANSAS STATE UNIVERSITY | S19023 | 47 | RD | 1,861 | |
| | MENTOR ON THE GO, LLC | SUB 20183028 (1831257) | 47 | RD | 9,627 | |
| | NATIONAL BUREAU OF ECONOMIC RESEARCH, INC | 36296.00.01.00-7700 | 47 | RD | 1,185 | |
| | OREGON STATE UNIVERSITY | S1826A-A | 47 | RD | 27,933 | |

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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---|--|--|-------------------------|-------------------|----------------------|------------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| NATIONAL SCIENCE FOUNDATION | PRINCETON UNIVERSITY | SUB0000229 | 47 | RD | 39,907 | | |
| | PRINCETON UNIVERSITY | SUB0000268 | 47 | RD | 93,427 | | |
| | PURDUE UNIVERSITY | 10001257-015 | 47 | RD | 106,977 | | |
| | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | 0695 | 47 | RD | 200,000 | | |
| | STANFORD UNIVERSITY | 61621756-121587 | 47 | RD | 32,734 | | |
| | UNIVERSITY OF CONNECTICUT | 331024 | 47 | RD | 15,084 | | |
| | UNIVERSITY OF ILLINOIS | 087442-16581 | 47 | RD | 164,445 | | |
| | UNIVERSITY OF MINNESOTA | A004088504 | 47 | RD | 124,783 | | |
| | UNIVERSITY OF MINNESOTA | 60124 | 47 | RD | 38,918 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 108502103 | 47 | RD | 77,479 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 91261301 | 47 | RD | 14,754 | | |
| | UNIVERSITY OF TEXAS-AUSTIN | UTA17-000640 | 47 | RD | 26,079 | | |
| | UNIVERSITY OF WISCONSIN-MADISON | 776K193 | 47 | RD | 71,057 | | |
| | UNIVERSITY OF WISCONSIN-MADISON | 787K161 | 47 | RD | 16,077 | | |
| | UNIVERSITY SYSTEM OF MARYLAND | 8450-Z4808006 | 47 | RD | 42,177 | | |
| | VANDERBILT UNIVERSITY | UNIV57932 | 47 | RD | 115,085 | | |
| | VISOLIS, INC. | 042800 | 47 | RD | 5,066 | | |
| | WESTED | S00030264.0 | 47 | RD | 121,306 | | |
| | YALE UNIVERSITY | GR101038 (CON-80001114) | 47 | RD | 75,112 | | |
| | DONALD DANFORTH PLANT SCIENCE CENTER | 23704-C | 47 | RD | 53,798 | | |
| | MICROGRID LABS INC. | 044145 | 47 | RD | 49,530 | | |
| | CENTRAL MICHIGAN UNIVERSITY | F63362 | 47 | RD | 4,531 | | |
| | JOHN JAY COLLEGE OF CRIMINAL JUSTICE | CM00000846-00 | 47 | RD | 214,669 | | |
| | | | | | 464,374,678 | 31,389,562 | |
| | NATIONAL SCIENCE FOUNDATION Total | | | | 505,072,094 | 31,557,749 | |
| | SECURITIES AND EXCHANGE COMMISSION | Passthrough/Partial Passthrough | | | | | |
| | | BIOLING, INC. | SUB 20182120 (AA024643) | 58 | 906 | 61,070 | |
| | | | | | 61,070 | | |
| | SECURITIES AND EXCHANGE COMMISSION Total | | | | 61,070 | | |
| | SMALL BUSINESS ADMINISTRATION | Passthrough/Partial Passthrough | | | | | |
| | | CALIFORNIA STATE UNIVERSITY FULLERTON/CSU FULLERTON AUXILIARY SERVICES | S-7056-UCI-CYC1 | 59 | 037 | 70,826 | |
| | | | | | 70,826 | | |
| | | Direct | | | | | |
| | | SMALL BUSINESS ADMINISTRATION (SBA) | VARIOUS | 59 | RD | 22,608 | |
| | | | | | 22,608 | | |
| | SMALL BUSINESS ADMINISTRATION Total | | | | 93,434 | | |
| | DEPARTMENT OF VETERANS AFFAIRS | Direct | | | | | |
| | U. S. DEPARTMENT OF VETERANS AFFAIRS | VARIOUS | 64 | RD | 7,385,153 | | |
| | U. S. DEPARTMENT OF VETERANS AFFAIRS (ARRA) | VARIOUS | 64 | RD | 3,930,112 | | |
| | | | | 11,315,266 | | | |
| DEPARTMENT OF VETERANS AFFAIRS Total | | | | 11,315,266 | | | |
| ENVIRONMENTAL PROTECTION AGENCY | Passthrough/Partial Passthrough | | | | | | |
| | STATE WATER RESOURCES CONTROL BOARD | D1615002 | 66 | 454 | 18,757 | | |
| | | | | 18,757 | | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | CALIFORNIA STATE COASTAL CONSERVANCY | 15-051 | 66 | 461 | 4,705 | | |
| | | | | 4,705 | | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | OREGON STATE UNIVERSITY | E0196B-B | 66 | 509 | 40,017 | | |
| | PARADIGM ENVIRONMENTAL, INC. | 86374 | 66 | 509 | 15,750 | | |
| | SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT | 172031 | 66 | 509 | 4,902 | | |
| | UNIVERSITY OF ILLINOIS | 070066-14318-CYC5 | 66 | 509 | 21,952 | | |
| | UNIVERSITY OF NORTH CAROLINA SYSTEM | 29A99 | 66 | 509 | -64 | | |
| | UNIVERSITY OF WASHINGTON | UWSC10117 | 66 | 509 | 59,199 | | |
| | | | | 141,756 | | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | COLORADO SCHOOL OF MINES | 401090-5801 | 66 | 511 | 131,792 | 20,221 | |
| | HEALTH EFFECTS INSTITUTE | 20151048 | 66 | 511 | 28,052 | | |
| | HEALTH EFFECTS INSTITUTE | 4964-RFA17-3/18-6-CYC1 | 66 | 511 | 52,393 | | |
| | PUBLIC POLICY INSTITUTE OF CALIFORNIA | 201500318 | 66 | 511 | 99,950 | | |
| | | | | 312,187 | 20,221 | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|--|--|--|----------------------|-----------|----------------------|---------------------------------|----------------|
| | | | Prefix | Extension | Federal Expenditures | | |
| ENVIRONMENTAL PROTECTION AGENCY | Passthrough/Partial Passthrough CALIFORNIA DEPARTMENT OF PESTICIDE REGULATION | 15C0091 | 66 | 605 | -520 | -520 | |
| | | TAA17-023 | 66 | 931 | 51,487 | 51,487 | |
| | Direct ENVIRONMENTAL PROTECTION AGENCY | VARIOUS | 66 | RD | 3,329,162 | 184,682 | |
| | | Passthrough/Partial Passthrough BIGELOW LABORATORY FOR OCEAN SCIENCES | 2000008903 | 66 | RD | 61,570 | |
| | | CALIFORNIA DEPARTMENT OF PESTICIDE REGULATION | 18-C0042 | 66 | RD | 83,044 | |
| | | RTI INTERNATIONAL | 5-312-0215574-52958L | 66 | RD | 60,463 | |
| | | ASSOCIATION OF BAY AREA GOVERNMENTS | 11853-2018 | 66 | RD | 32,208 | |
| | ENVIRONMENTAL PROTECTION AGENCY Total | | | | | 3,566,447 | 184,682 |
| | NUCLEAR REGULATORY COMMISSION | | | | | 4,094,818 | 204,903 |
| | Direct NUCLEAR REGULATORY COMMISSION | VARIOUS | 77 | RD | 422,231 | | |
| NUCLEAR REGULATORY COMMISSION Total | | | | | 422,231 | | |
| DEPARTMENT OF ENERGY | Passthrough/Partial Passthrough BATTELLE MEMORIAL INSTITUTE | 170434 | 81 | 036 | 14,712 | | |
| | | 4500059737-CYC1 | 81 | 036 | 169,809 | 25,200 | |
| | GENERAL ATOMICS | 4500063485-CYC2 | 81 | 036 | 3,031 | | |
| | OAK RIDGE NATIONAL LABORATORY | 4000159454-CYC1 | 81 | 036 | 391,138 | | |
| | OAK RIDGE NATIONAL LABORATORY | 4000136272-CYC7 | 81 | 036 | -737 | -737 | |
| | | | | | 577,953 | 24,463 | |
| Passthrough/Partial Passthrough | AEROSOL DYNAMICS, INC. | 86095 | 81 | 049 | 155,570 | | |
| | BINGHAMTON UNIVERSITY | 039699 | 81 | 049 | 34,977 | | |
| | BROOKHAVEN NATIONAL LABORATORY/BROOKHAVEN SCIENCE ASSOCIATES, LLC | 198731-11 | 81 | 049 | 71,298 | | |
| | BROOKHAVEN NATIONAL LABORATORY/BROOKHAVEN SCIENCE ASSOCIATES, LLC | 233044-5 | 81 | 049 | 136,899 | | |
| | CALIFORNIA INSTITUTE OF TECHNOLOGY | SUB 65Q-1097562 (DE-SC0016469) | 81 | 049 | 153,616 | | |
| | CALIFORNIA INSTITUTE OF TECHNOLOGY | SUB 68JCAP-1090300 (DE-SC00049) | 81 | 049 | 66,061 | | |
| | CALIFORNIA INSTITUTE OF TECHNOLOGY | 68J-1090279-CYC11 | 81 | 049 | 143,927 | | |
| | COLORADO STATE UNIVERSITY | G000272 | 81 | 049 | 13,965 | | |
| | COLUMBIA UNIVERSITY | 1(GG008772) | 81 | 049 | 108,947 | | |
| | COLUMBIA UNIVERSITY | SUB 1(GG008714) (DE-SC0018218) | 81 | 049 | 321,765 | | |
| | CORNELL UNIVERSITY | 86832-11130 | 81 | 049 | 24,683 | | |
| | DIRAC SOLUTIONS INC. | A18-0322-001 | 81 | 049 | 114,684 | | |
| | FERMI RESEARCH ALLIANCE, LLC (FRA) (INCL FERMILAB-DOE GOCO) | PO 613885 | 81 | 049 | 156,030 | 110,272 | |
| | GENERAL ENGINEERING & RESEARCH, LLC | SUB 20173615 (DE-SC0015932) | 81 | 049 | 124,895 | | |
| | GLOBAL ALGAE INNOVATIONS | GAI 180512 | 81 | 049 | 68,264 | | |
| | HARVARD UNIVERSITY | 130298-5106298 | 81 | 049 | 130,877 | | |
| | HJ SCIENCE AND TECHNOLOGY, INC. | 20161999 | 81 | 049 | 58,283 | | |
| | IOWA STATE UNIVERSITY | 81165 | 81 | 049 | 109,239 | | |
| | J. CRAIG VENTER INSTITUTE | SUB JCVI-17-014 (DE-SC0018344) | 81 | 049 | 413,681 | | |
| | JOHNS HOPKINS UNIVERSITY | SUB 2004033307 (DE-SC0019388) | 81 | 049 | 83,501 | | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | A18-0907-001 | 81 | 049 | 22,761 | | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B613194:2 | 81 | 049 | 40,264 | | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B628729 | 81 | 049 | 209,925 | | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | 89766 | 81 | 049 | -3,859 | | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | A19-0694-001 | 81 | 049 | 38,741 | | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | A19-0852-001 | 81 | 049 | 12,942 | | |
| | LOS ALAMOS NATIONAL SECURITY, LLC | 59434 | 81 | 049 | 87,953 | | |
| | LOS ANGELES DEPARTMENT OF WATER AND POWER | 20616 | 81 | 049 | 271 | | |
| | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | S4686 - PO-CYC1 | 81 | 049 | 137,632 | | |
| | NORTHWESTERN UNIVERSITY | 79152 | 81 | 049 | -1,706 | | |
| | OAK RIDGE NATIONAL LABORATORY | 4000158959 | 81 | 049 | 10,206 | | |
| | OAK RIDGE NATIONAL LABORATORY | 4000154999:6 | 81 | 049 | 127,396 | | |
| | PACIFIC NORTHWEST NATIONAL LABORATORIES | 261296:3 | 81 | 049 | 76 | | |
| | PENNSYLVANIA STATE UNIVERSITY | 4916-USB-DOE-0620 | 81 | 049 | 14,835 | | |
| | PENNSYLVANIA STATE UNIVERSITY | SUB 5065-UCSD-DOE-2375 (DE-SCO) | 81 | 049 | 126,725 | | |
| | PENNSYLVANIA STATE UNIVERSITY | 5024-UCLA-DOE-2377:3 | 81 | 049 | -4,876 | | |
| | PURDUE UNIVERSITY | 4105-77312 | 81 | 049 | -1,390 | | |
| | PURDUE UNIVERSITY | SUB 14000380-009(DESC0018952) | 81 | 049 | 31,797 | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---------------------------------------|--|---|--------------------------------|-----------|----------------------|------------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF ENERGY | RADIABEAM TECHNOLOGIES, LLC | 79381 | 81 | 049 | 62,088 | | |
| | SANDIA NATIONAL LABORATORIES | SUB 1856102 (NONE) | 81 | 049 | 94,153 | | |
| | SMART MANUFACTURING LEADERSHIP COALITION | CESMII-2017-S-01:02 | 81 | 049 | -487,112 | | |
| | SPEC, INC. | SPEC 17-0329 | 81 | 049 | 48,012 | | |
| | STANFORD UNIVERSITY | A19-0496-001 | 81 | 049 | 47,058 | | |
| | STATE UNIVERSITY OF NEW YORK | 68799 | 81 | 049 | 137,810 | | |
| | STATE UNIVERSITY OF NEW YORK | 68856-11194936-3 | 81 | 049 | 8,701 | | |
| | STONY BROOK UNIVERSITY (A STATE UNIVERSITY OF NEW YORK CAMPUS) | 80431 | 81 | 049 | -1,022 | | |
| | THE UNIVERSITY OF ALABAMA (TUSCALOOSA) | 000517656-SC002 | 81 | 049 | 57,599 | | |
| | ULTRAMET | PO NO. 13403 | 81 | 049 | 11,854 | | |
| | ULTRAMET | SUB SO#16788 (DE-SC0017846) | 81 | 049 | 62,963 | | |
| | UNIVERSITIES RESEARCH ASSOCIATION (OPERATES FERMILAB) | 603654-14 | 81 | 049 | 620,314 | | |
| | UNIVERSITY OF CENTRAL FLORIDA | 004518 | 81 | 049 | 100,481 | | |
| | UNIVERSITY OF CINCINNATI | 009725-002 | 81 | 049 | -10,770 | | |
| | UNIVERSITY OF COLORADO BOULDER | 1553192-CYC3 | 81 | 049 | 42,912 | | |
| | UNIVERSITY OF DELAWARE | 51428 | 81 | 049 | 70,737 | | |
| | UNIVERSITY OF IOWA | S00456-01 | 81 | 049 | 81,896 | | |
| | UNIVERSITY OF KANSAS/KU CENTER FOR RESEARCH, INC. | 007775 | 81 | 049 | 20,497 | | |
| | UNIVERSITY OF MARYLAND | 18028-Z7181002:C | 81 | 049 | 144,057 | | |
| | UNIVERSITY OF MARYLAND | Z7181005-CYC6 | 81 | 049 | 41,204 | | |
| | UNIVERSITY OF MIAMI | SPC-000615 | 81 | 049 | 32,921 | | |
| | UNIVERSITY OF MICHIGAN | 3003694279 | 81 | 049 | 243,437 | | |
| | UNIVERSITY OF MICHIGAN | 3004764256 | 81 | 049 | 384,266 | | |
| | UNIVERSITY OF MICHIGAN | 59780 | 81 | 049 | -72,149 | | |
| | UNIVERSITY OF MICHIGAN | SUBK00009231-CYC1 | 81 | 049 | 22,477 | | |
| | UNIVERSITY OF MINNESOTA | A004527503 | 81 | 049 | 155,907 | | |
| | UNIVERSITY OF MINNESOTA | A007230203 | 81 | 049 | 75,116 | | |
| | UNIVERSITY OF NOTRE DAME (INCL GEM) | 82124 | 81 | 049 | 52,051 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 66913872:2 | 81 | 049 | 88,131 | | |
| | UNIVERSITY OF TEXAS-AUSTIN | SUB UTA18-001255(DE-SC0019100) | 81 | 049 | 14,806 | | |
| | UNIVERSITY OF TEXAS-AUSTIN | UTA18-001379 | 81 | 049 | 506,971 | | |
| | UNIVERSITY OF UTAH | DE-SC0019285 | 81 | 049 | 66,731 | | |
| | UNIVERSITY OF WASHINGTON | SUB UWSC10739(DE-SC0019288) | 81 | 049 | 71,649 | | |
| | UNIVERSITY OF WASHINGTON | UWSC7946-CYC1 | 81 | 049 | 21 | | |
| | UNIVERSITY OF WISCONSIN SYSTEM | 005878 | 81 | 049 | 1,580 | | |
| | UNIVERSITY OF WISCONSIN-MADISON | 609K674:4 | 81 | 049 | -305 | | |
| | UNIVERSITY OF WISCONSIN-MADISON | 614K924:4 | 81 | 049 | 140,862 | | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | 004368 | 81 | 049 | 18,170 | | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | 006723 | 81 | 049 | 183,938 | | |
| | WAYNE STATE UNIVERSITY | WSU14139-A5:5 | 81 | 049 | 191,088 | 76,637 | |
| | OPERANT SOLAR CORPORATION | DE-SC0018863 | 81 | 049 | 48,960 | | |
| | BRIDGE12 TECHNOLOGIES INC. | A19-1070 | 81 | 049 | 44,999 | | |
| | LIFE-E, LLC | A19-1171 | 81 | 049 | 34,770 | | |
| | | | | | 6,800,685 | 186,909 | |
| | | Passthrough/Partial Passthrough | | | | | |
| | | UNIVERSITY OF TEXAS-ARLINGTON | SUB 1260801390-61 (DE-FE002311 | 81 | 057 | 1,605 | |
| | | | | | 1,605 | | |
| | | Passthrough/Partial Passthrough | | | | | |
| | | UNIVERSITY OF ILLINOIS | 88702 | 81 | 079 | -6,798 | |
| | | | | | -6,798 | | |
| | | Passthrough/Partial Passthrough | | | | | |
| | | SOUTHWEST RESEARCH INSTITUTE | L99081MJM-CYC1 | 81 | 086 | 482 | |
| | | UNIVERSITY OF TENNESSEE | 58146 | 81 | 086 | -5,923 | |
| | | | | | -5,441 | | |
| | | Passthrough/Partial Passthrough | | | | | |
| | | ARIZONA STATE UNIVERSITY/TEMPE | SUB 17-209(DEEE0007751) | 81 | 087 | 132,730 | |
| | | BROOKHAVEN NATIONAL LABORATORY/BROOKHAVEN SCIENCE ASSOCIATES, LLC | 325257-CYC10 | 81 | 087 | 1,212,107 | |
| | | CALIFORNIA MANUFACTURING TECHNOLOGY CONSULTING | 89808 | 81 | 087 | 2,879 | |
| | | COLORADO STATE UNIVERSITY | G-12018-1-CYC1 | 81 | 087 | 42,076 | |
| | | CORNELL UNIVERSITY | SUB 81344-10987 (DE-EE0007978) | 81 | 087 | 80,232 | |
| | ELECTRIC POWER RESEARCH INSTITUTE | 008250 | 81 | 087 | 79,488 | | |
| | ELECTRIC POWER RESEARCH INSTITUTE | 10007378-CYC1 | 81 | 087 | 3,986 | | |
| | ELECTRIC POWER RESEARCH INSTITUTE | 0010006993 | 81 | 087 | -12,173 | | |
| | GLOBAL ALGAE INNOVATIONS | SUB 160849 (DE-EE0007689) | 81 | 087 | 226,733 | | |
| | GLOBAL ALGAE INNOVATIONS | SUB 20183437(DE-SC0018781) | 81 | 087 | 71,528 | | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B617108 | 81 | 087 | 3,591 | | |

UNIVERSITY OF CALIFORNIA
 Schedule of Expenditures of Federal Awards
 For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---|--|---|----------------|-----------|----------------------|---------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF ENERGY | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B620105 | 81 | 087 | 9,575 | | |
| | LOS ALAMOS NATIONAL SECURITY, LLC | 324390-CYC1 | 81 | 087 | 11,079 | | |
| | OAK RIDGE NATIONAL LABORATORY | 4000132775 | 81 | 087 | 14,343 | | |
| | OHIO FUEL CELL COALITION | OFCC-205761-CYC1 | 81 | 087 | 6,443 | | |
| | OREGON STATE UNIVERSITY | G0154F-A | 81 | 087 | 14,837 | | |
| | PACIFIC NORTHWEST NATIONAL LABORATORIES | 422454-CYC1 | 81 | 087 | 106,053 | | |
| | STANFORD UNIVERSITY | 85496 | 81 | 087 | 13 | | |
| | UNIVERSITY OF CENTRAL FLORIDA | SUB 16226104-06 (EE0007327) | 81 | 087 | 3,167 | | |
| | VISOLIS, INC. | 86419 | 81 | 087 | 1,159 | | |
| | | | | | | 2,009,845 | |
| | Passthrough/Partial Passthrough | | | | | | |
| | BATTELLE MEMORIAL INSTITUTE | 009513 | 81 | 089 | 80,421 | | |
| | COLUMBIA UNIVERSITY | A17-0866-001 | 81 | 089 | 4,696 | | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B625943 | 81 | 089 | 74,865 | | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B629135 | 81 | 089 | 43,754 | | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B632126 | 81 | 089 | 51,207 | | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B634023 | 81 | 089 | 7,153 | | |
| | TDA RESEARCH, INC. | GA.2339.UCI.16.01-CYC1 | 81 | 089 | 211,696 | | |
| | TDA RESEARCH, INC. | GA.2074.UCI.16.01-CYC2 | 81 | 089 | 8,149 | | |
| | TDA RESEARCH, INC. | GA.2201.008.UCI.18.01-CYC2 | 81 | 089 | 25,075 | | |
| | TDA RESEARCH, INC. | GA.2942.UCI.14.04-CYC6 | 81 | 089 | 37,560 | | |
| | UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE) | DE-FE0029168 | 81 | 089 | 60,544 | | |
| UNIVERSITY OF IOWA | S00700-01 | 81 | 089 | 1,211 | | | |
| WAYNE STATE UNIVERSITY | 79931 | 81 | 089 | 14,237 | | | |
| OPTO-KNOWLEDGE SYSTEMS, INC. | 18040601-02-CYC1 | 81 | 089 | 26,727 | | | |
| PROTON ONSITE | EC-0008081-01-CYC1 | 81 | 089 | 29,887 | | | |
| SAVANNAH RIVER NUCLEAR SOLUTIONS, LLC | 667 | 81 | 089 | 103,014 | | | |
| SLAC NATIONAL ACCELERATOR LABORATORY | 191924 | 81 | 089 | 24,124 | | | |
| | | | | | 804,320 | | |
| Passthrough/Partial Passthrough | | | | | | | |
| CORNELL UNIVERSITY | SUB 83228-10970 (DE-NA0003764) | 81 | 112 | 220,063 | | | |
| HARVARD UNIVERSITY | 130805-5088706 | 81 | 112 | 116,312 | | | |
| TEXAS A&M UNIVERSITY - COLLEGE STATION | M1803474 | 81 | 112 | 468,529 | | | |
| UNIVERSITY OF MICHIGAN | SUB 3004892094 (DE-NA0002723) | 81 | 112 | 35,195 | | | |
| | | | | | 840,099 | | |
| Passthrough/Partial Passthrough | | | | | | | |
| TRIAD NATIONAL SECURITY, LLC | SUB 507174(NONE) | 81 | 113 | 79,099 | | | |
| | | | | | 79,099 | | |
| Passthrough/Partial Passthrough | | | | | | | |
| MASSACHUSETTS INSTITUTE OF TECHNOLOGY | 88767 | 81 | 121 | 38,076 | -2,855 | | |
| UNIVERSITY OF TENNESSEE | DE-NE0008694 | 81 | 121 | 118,890 | | | |
| UNIVERSITY OF TENNESSEE | 010336 | 81 | 121 | 34,652 | | | |
| UNIVERSITY OF WISCONSIN-MADISON | 634K071 | 81 | 121 | 34,034 | | | |
| | | | | 225,652 | -2,855 | | |
| Passthrough/Partial Passthrough | | | | | | | |
| LOS ANGELES DEPARTMENT OF WATER AND POWER | 20686 | 81 | 122 | 121,622 | | | |
| LOS ANGELES DEPARTMENT OF WATER AND POWER | 20699 | 81 | 122 | 367,469 | | | |
| | | | | | 489,091 | | |
| Passthrough/Partial Passthrough | | | | | | | |
| BROOKHAVEN NATIONAL LABORATORY/BROOKHAVEN SCIENCE ASSOCIATES, LLC | A17-0695-006 | 81 | 123 | 117,918 | | | |
| BROOKHAVEN NATIONAL LABORATORY/BROOKHAVEN SCIENCE ASSOCIATES, LLC | A17-0696-004 | 81 | 123 | -1,694 | | | |
| BROOKHAVEN NATIONAL LABORATORY/BROOKHAVEN SCIENCE ASSOCIATES, LLC | A17-0697-006 | 81 | 123 | 1,540 | | | |
| BROOKHAVEN NATIONAL LABORATORY/BROOKHAVEN SCIENCE ASSOCIATES, LLC | A17-0698-006 | 81 | 123 | 156,383 | | | |
| BROOKHAVEN NATIONAL LABORATORY/BROOKHAVEN SCIENCE ASSOCIATES, LLC | A17-0699-006 | 81 | 123 | 571,912 | | | |
| BROOKHAVEN NATIONAL LABORATORY/BROOKHAVEN SCIENCE ASSOCIATES, LLC | A17-0700-006 | 81 | 123 | 10,614 | | | |
| BROOKHAVEN NATIONAL LABORATORY/BROOKHAVEN SCIENCE ASSOCIATES, LLC | A18-0712-001 | 81 | 123 | 67,372 | | | |
| LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | SUB B627864(DE-AC52-07NA27344) | 81 | 123 | 421,271 | | | |
| LOS ALAMOS NATIONAL SECURITY, LLC | 368641-CYC1 | 81 | 123 | 23,604 | | | |
| LOS ALAMOS NATIONAL SECURITY, LLC | 009390 | 81 | 123 | 33,060 | | | |
| LOS ALAMOS NATIONAL SECURITY, LLC | 009503 | 81 | 123 | 50,305 | | | |
| | | | | | 1,452,285 | | |
| Passthrough/Partial Passthrough | | | | | | | |
| UNIVERSITY OF UTAH | 10029200-UCB | 81 | 124 | 227,316 | | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---------------------------------------|--|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF ENERGY | | | | | 227,316 | |
| | Passthrough/Partial Passthrough | | | | | |
| | COLUMBIA UNIVERSITY | 4(GG008711) | 81 | 135 | 448,930 | |
| | GAS TECHNOLOGY INSTITUTE | 5492 | 81 | 135 | -19,427 | |
| | LEHIGH UNIVERSITY | SUB 543891-78002(DE-AR0001073) | 81 | 135 | 1,530 | |
| | MAGNETO-INERTIAL FUSION TECHNOLOGIES, INC | SUB NONE (AR0000569) | 81 | 135 | 126,767 | |
| | METROPIA INC. | 716001-004 | 81 | 135 | -5,732 | |
| | NANOSD, INC. | 874GF | 81 | 135 | 89,053 | |
| | PRINCETON PLASMA PHYSICS LABORATORY | 79487 | 81 | 135 | -9,240 | |
| | SRI INTERNATIONAL | 77557 | 81 | 135 | 1,768 | |
| | STANFORD UNIVERSITY | 61275607-120983 | 81 | 135 | 13,646 | |
| | STONY BROOK UNIVERSITY (A STATE UNIVERSITY OF NEW YORK CAMPUS) | 80173 | 81 | 135 | -698 | |
| | UNIVERSITY OF CINCINNATI | 009725-002 | 81 | 135 | 67,634 | |
| | UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE) | SUB 1554800 (DE-AR0000770) | 81 | 135 | 211,617 | |
| | UNIVERSITY OF TENNESSEE | 8500051702 | 81 | 135 | 9,803 | |
| | UNIVERSITY OF WISCONSIN-MADISON | 183405383 | 81 | 135 | 135,349 | |
| | OROMIS, INC. | SUB 20192709(NONE) | 81 | 135 | 2,500 | |
| | | | | | 1,073,499 | |
| | Direct | | | | | |
| | DEPARTMENT OF ENERGY | VARIOUS | 81 | RD | 136,914,614 | 14,846,476 |
| | Passthrough/Partial Passthrough | | | | | |
| | ADVANCED RESEARCH CORPORATION | 17335 | 81 | RD | 190,078 | |
| | AERODYNE RESEARCH, INC. | ARI 11293-3 | 81 | RD | 26,004 | |
| | ALLIANCE FOR SUSTAINABLE ENERGY, LLC | XAT-6-62531-01 | 81 | RD | 66,993 | |
| | AMES LABORATORY | 20C29 | 81 | RD | 198,295 | |
| | ARGONNE NATIONAL LABORATORY | 009274 | 81 | RD | 7,507 | |
| | ARGONNE NATIONAL LABORATORY | 010343 | 81 | RD | 40,437 | |
| | ARGONNE NATIONAL LABORATORY | 5F30561 | 81 | RD | 58,977 | |
| | ARGONNE NATIONAL LABORATORY | 86836 | 81 | RD | 58,193 | |
| | ARGONNE NATIONAL LABORATORY (DOE GOCO LAB OPERATED BY UNIV OF CHICAGO) | 9F-60022 | 81 | RD | 15,268 | |
| | ARIZONA STATE UNIVERSITY/TEMPE | ASUB00000188 | 81 | RD | 974 | |
| | BLUE RIVER TECHNOLOGY | 38A17 | 81 | RD | 42,620 | |
| | BLUE RIVER TECHNOLOGY | Y152594 | 81 | RD | 1,901 | |
| | BROOKHAVEN NATIONAL LABORATORY/BROOKHAVEN SCIENCE ASSOCIATES, LLC | 39554 | 81 | RD | 318,436 | |
| | BROOKHAVEN NATIONAL LABORATORY/BROOKHAVEN SCIENCE ASSOCIATES, LLC | 63913 | 81 | RD | 176,484 | |
| | CALWAVE POWER TECHNOLOGIES, INC. | 043841 | 81 | RD | 192,811 | |
| | CARNEGIE INSTITUTION | 85786 | 81 | RD | -2,889 | |
| | CENTER FOR ENERGY AND ENVIRONMENT | 201602545 | 81 | RD | 88,531 | |
| | FERMI RESEARCH ALLIANCE, LLC (FRA) (INCL FERMILAB-DOE GOCO) | 553611 | 81 | RD | 44,235 | |
| | FERMI RESEARCH ALLIANCE, LLC (FRA) (INCL FERMILAB-DOE GOCO) | 617067 | 81 | RD | 10,584 | |
| | FERMI RESEARCH ALLIANCE, LLC (FRA) (INCL FERMILAB-DOE GOCO) | 633923 | 81 | RD | 42,897 | |
| | FERMI RESEARCH ALLIANCE, LLC (FRA) (INCL FERMILAB-DOE GOCO) | 642024 | 81 | RD | 30,224 | |
| | GENERAL ATOMICS | SUB 4500060525(DE-FC02-04ER546) | 81 | RD | 106,177 | |
| | GEORGE WASHINGTON UNIVERSITY | 18-S22 | 81 | RD | 2,050 | |
| | IDAHO NATIONAL LABORATORY | 193494 | 81 | RD | 91,157 | |
| | INCOM, INC. | 044056 | 81 | RD | 36,975 | |
| | INCOM, INC. | 045399 | 81 | RD | 30,283 | |
| | KOOTENAI TRIBE OF IDAHO | A18-1948 | 81 | RD | 71,958 | |
| | KOOTENAI TRIBE OF IDAHO | 19-2256 | 81 | RD | 33,397 | |
| | KOOTENAI TRIBE OF IDAHO | 25B24 | 81 | RD | -12,611 | |
| | KOOTENAI TRIBE OF IDAHO | 85646 | 81 | RD | -172 | |
| | KOOTENAI TRIBE OF IDAHO | A18-1888 | 81 | RD | 69,865 | |
| | KOOTENAI TRIBE OF IDAHO | A19-3366 | 81 | RD | 17,493 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B616616 | 81 | RD | 11,249 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B617085 | 81 | RD | 52,527 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B619357 | 81 | RD | 3,605 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B621105 | 81 | RD | 3,383 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B621286 | 81 | RD | 44,389 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B623076 | 81 | RD | 7,878 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | SUB B622171 (DE-AC52-07NA27344) | 81 | RD | 194,058 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | A18-0425 | 81 | RD | 28,414 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B624727 | 81 | RD | 58,866 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B625903-CYC1 | 81 | RD | 122,554 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B626742-CYC1 | 81 | RD | 54,997 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B626804 | 81 | RD | 19,167 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B627187 | 81 | RD | 17,199 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B627271-CYC1 | 81 | RD | 109,186 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B628440-CYC1 | 81 | RD | 86,218 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---------------------------------------|--|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF ENERGY | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | DE-AC52-07NA27344 | 81 | RD | 159,181 | |
| | | SUB B624769 (DE-AC52-07NA27344) | 81 | RD | 33 | |
| | | B623353 | 81 | RD | 10,000 | |
| | | B628407-CYC1 | 81 | RD | 175,180 | |
| | | B628415 | 81 | RD | 45,586 | |
| | | B628511 | 81 | RD | 20,000 | |
| | | B629159 | 81 | RD | 30,000 | |
| | | B629922 | 81 | RD | 63,831 | |
| | | B630058 | 81 | RD | 19,683 | |
| | | B630207 | 81 | RD | 26,968 | |
| | | B632083 | 81 | RD | 61,179 | |
| | | B632242-CYC1 | 81 | RD | 71,453 | |
| | | B632305 | 81 | RD | 33,647 | |
| | | B632535 | 81 | RD | 47,425 | |
| | | B632718 | 81 | RD | 22,085 | |
| | | B632745 | 81 | RD | 14,216 | |
| | | B632788 | 81 | RD | 26,336 | |
| | | B633183 | 81 | RD | 85,712 | |
| | | SUB B629502 B623353(NONE) | 81 | RD | 19,303 | |
| | | SUB B630728 (DE-AC52-07NA27344) | 81 | RD | 11,945 | |
| | | SUB B630882 (DE-AC52-07NA2734) | 81 | RD | 24,509 | |
| | | B628129 | 81 | RD | 55,065 | |
| | | B628449 | 81 | RD | 227,902 | |
| | | B632435 | 81 | RD | 12,696 | |
| | | SUB 351623 (DEAC52-06NA25396) | 81 | RD | 1,515,106 | |
| | | SUB 370334 (DE-AC52-06NA25396) | 81 | RD | 205,040 | |
| | | SUB 398502 (DE-AC52-06NA25396) | 81 | RD | 25,787 | |
| | | 520355 | 81 | RD | 14,094 | |
| | | DE-AC52-06NA25396 | 81 | RD | 92,881 | |
| | | 520116 | 81 | RD | 33,517 | |
| | | XGJ-7-62614-01 | 81 | RD | 212,445 | |
| | | XGJ-8-70296-01 | 81 | RD | 58,905 | |
| | | 92-CA06-SEED2018-C3WPPD-CYC1 | 81 | RD | 14,730 | |
| | | 006982 | 81 | RD | 114,017 | |
| | | 008531 | 81 | RD | 58,638 | |
| | | 4000100283 | 81 | RD | 35,935 | |
| | | 4000134953 | 81 | RD | 14,339 | |
| | | 4000141233 | 81 | RD | 73,541 | |
| | | 4000151688 | 81 | RD | 113,202 | |
| | | 009441 | 81 | RD | 321,653 | |
| | | 010137 | 81 | RD | 61,935 | |
| | | 4000139641 | 81 | RD | 84,086 | |
| | | 4000140266 | 81 | RD | 25,000 | |
| | | 4000158037 | 81 | RD | 57,103 | |
| | | 4000163301 | 81 | RD | 10,000 | |
| | | 4000164804 | 81 | RD | 15,444 | |
| | | 58252 | 81 | RD | 2,753 | |
| | | 008894 | 81 | RD | 1,318 | |
| | | 275882 | 81 | RD | 148,662 | |
| | | SUB 274570 (DE-AC05-76RL01830) | 81 | RD | 10,153 | |
| | | 387155 | 81 | RD | 25,979 | |
| | | SUB 375997 (DE-AC05-76RL01830) | 81 | RD | 37,283 | 12,751 |
| | | 010696 | 81 | RD | 5,324 | |
| | | 1486765 | 81 | RD | 7,877 | |
| | | 1752703 | 81 | RD | -17,285 | |
| | | 1786332 | 81 | RD | 80,456 | |
| | | 1668054 | 81 | RD | 64,414 | |
| | | 1732394 | 81 | RD | 20,246 | |
| | | 1744159 | 81 | RD | 75,775 | |
| | | 1758713 | 81 | RD | 13,053 | |
| | | 1772593 | 81 | RD | 136,950 | |
| | | 1850573 | 81 | RD | 66,090 | |
| | | PO 1917520 | 81 | RD | 54,432 | |
| | | SUB 1646732 (DE-AC04-94AL85000) | 81 | RD | 279,651 | |
| | | 1887840 | 81 | RD | 157,909 | |
| | | PO 1925990 | 81 | RD | 50,632 | |
| | | SUB 1909663(NONE) | 81 | RD | 475,402 | |
| | | 1742701 | 81 | RD | 133,413 | |
| | | 1940383 | 81 | RD | 15,000 | |
| | | 1988051 | 81 | RD | 2,309 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | | | |
|---------------------------------------|--|--|--|---|----------------------|------------------------------------|-------------------|---------|--|
| | | | Prefix | Extension | Federal Expenditures | | | | |
| DEPARTMENT OF ENERGY | SANDIA NATIONAL LABORATORIES | 26C55 | 81 | RD | 40,652 | | | | |
| | | 29C87 | 81 | RD | 12,902 | | | | |
| | | 86384 | 81 | RD | 41 | | | | |
| | | 010461 | 81 | RD | 48,454 | | | | |
| | | 010467 | 81 | RD | 25,964 | | | | |
| | | A17-0410-003 | 81 | RD | 35,457 | | | | |
| | | SUB 2004104 (NONE) | 81 | RD | 21,652 | | | | |
| | | 1985350 | 81 | RD | 34,356 | | | | |
| | | 1838273 | 81 | RD | 100,610 | | | | |
| | | 1976904 | 81 | RD | 44,796 | | | | |
| | | 26728 | 81 | RD | 2,881 | | | | |
| | | 61961563-136555 | 81 | RD | 275,296 | | | | |
| | | 28-M1800913 | 81 | RD | 202,063 | | | | |
| | | 604705 | 81 | RD | 9,181 | | | | |
| | | 090634-16915 | 81 | RD | 303,047 | | | | |
| | | 3200001517-18-075 | 81 | RD | 224,342 | | | | |
| | | A003127005 | 81 | RD | 63,611 | | | | |
| | | 776K775 | 81 | RD | 18,355 | | | | |
| | | 60259 | 81 | RD | -11,682 | | | | |
| | | 044715 | 81 | RD | 12,519 | | | | |
| | | DP-208459-CYC1 | 81 | RD | 271,867 | | | | |
| | | 59581 | 81 | RD | 873 | | | | |
| | | 7F-30219-CYC1 | 81 | RD | 59,717 | | | | |
| | | SUB 9F-60081 | 81 | RD | 52,218 | | | | |
| | | 045257 | 81 | RD | 49,959 | | | | |
| | | 045416 | 81 | RD | 47,949 | | | | |
| | | 046289 | 81 | RD | 16,418 | | | | |
| | | 187775 | 81 | RD | 63,771 | | | | |
| | | 520117-CYC1 | 81 | RD | 32,675 | | | | |
| | | 523272 | 81 | RD | 32,939 | | | | |
| | | | | | 148,145,448 | | 14,859,227 | | |
| | | DEPARTMENT OF ENERGY Total | | | 162,714,659 | | 15,067,745 | | |
| | | DEPARTMENT OF EDUCATION | Passthrough/Partial Passthrough GEORGIA STATE UNIVERSITY | 008047 | 84 | 116 | 226,756 | | |
| | | | | | | | 226,756 | | |
| | | DEPARTMENT OF EDUCATION | Passthrough/Partial Passthrough REHABILITATION INSTITUTE OF CHICAGO | 81760-CYC7 | 84 | 133 | 23,572 | | |
| | | | | | | | 23,572 | | |
| | | DEPARTMENT OF EDUCATION | Passthrough/Partial Passthrough CALIFORNIA DEPARTMENT OF EDUCATION | 16-14349-3001-9A | 84 | 287 | 909,570 | 666,746 | |
| | | | | | | | 909,570 | 666,746 | |
| | | DEPARTMENT OF EDUCATION | Passthrough/Partial Passthrough | COLUMBIA UNIVERSITY | 1 (GG009670) | 84 | 305 | 3,872 | |
| | | | | EDBOOST | 59556 | 84 | 305 | -2,717 | |
| | | | | FLORIDA STATE UNIVERSITY | 78567 | 84 | 305 | -56 | |
| | | | | HARVARD UNIVERSITY | 108135-5099346 | 84 | 305 | 85,131 | |
| | | | | LITERACY DESIGN COLLABORATIVE, INC | 20145515 | 84 | 305 | 317,728 | |
| | | | | MINDSET WORKS, INC. | 201500250 | 84 | 305 | 238,160 | |
| | | | | NEW YORK UNIVERSITY | F0959-02-CYC1 | 84 | 305 | 6,169 | |
| UNIVERSITY OF CHICAGO | FP064959-01-PR-CYC1 | | | 84 | 305 | 3,421 | | | |
| UNIVERSITY OF SOUTH CAROLINA | 15-2906 | | | 84 | 305 | 88,748 | | | |
| EDUCATIONAL TESTING SERVICE | UCLA-ED-305A | | | 84 | 305 | 173,885 | | | |
| | | | | | | 914,342 | | | |
| DEPARTMENT OF EDUCATION | Passthrough/Partial Passthrough | | | GEORGIA STATE UNIVERSITY | SP00010919-06-CYC2 | 84 | 324 | 12,000 | |
| | | | | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B620630:1 | 84 | 324 | 27,140 | |
| | | | | UNIVERSITY OF MICHIGAN | 3003847265-CYC2 | 84 | 324 | 161,947 | |
| | | UNIVERSITY OF VIRGINIA | R324A180221 | 84 | 324 | 64,813 | | | |
| | | | | 265,899 | | | | | |
| DEPARTMENT OF EDUCATION | Passthrough/Partial Passthrough | ARIZONA STATE UNIVERSITY/TEMPE | T365Z170170 | 84 | 365 | 33,283 | | | |
| | | PENNSYLVANIA STATE UNIVERSITY | SUB 5590-UCSD-USDE-0311 (T365Z | 84 | 365 | 82,988 | | | |
| | | SANTA CLARA UNIVERSITY | A18-0382-001 | 84 | 365 | 66,857 | | | |
| | | | | 183,128 | | | | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | | |
|---|---|---|----------------|-----------|----------------------|---------------------------------|------------------|
| | | | Prefix | Extension | Federal Expenditures | Passed through to Subrecipients | |
| DEPARTMENT OF EDUCATION | Passthrough/Partial Passthrough | | | | | | |
| | CALIFORNIA DEPARTMENT OF EDUCATION | 84709 | 84 | 367 | -9,237 | | |
| | CALIFORNIA DEPARTMENT OF EDUCATION | ESSA18-CRLP-UCB | 84 | 367 | 12,157 | | |
| | CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION | NCLB14-CWP-UCSB | 84 | 367 | 3,348 | | |
| | CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION | NCLB14-CMP-UCSB | 84 | 367 | 283 | | |
| | CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION | NCLB14-CSP-UCSB | 84 | 367 | -490 | | |
| | CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION | NCLB14-CWP-UCI-CYC1 | 84 | 367 | -396 | | |
| | CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION | ESSA18-CHSSP-UCI-CYC1 | 84 | 367 | 40,500 | | |
| | CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION | ESSA18-CMP-UCSB | 84 | 367 | 12,102 | | |
| | CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION | ESSA18-CSP-UCSB | 84 | 367 | 34,796 | | |
| | CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION | ESSA18-CWP-UCB | 84 | 367 | 5,787 | | |
| | CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION | ESSA18-CWP-UCI-CYC1 | 84 | 367 | 25,104 | | |
| | NATIONAL WRITING PROJECT | 92-CA06-SEED2017-CRWPAI-CYC1 | 84 | 367 | 1,873 | | |
| | NATIONAL WRITING PROJECT | 92-CA07-SEED2017-CRWPPD | 84 | 367 | 873 | | |
| | NATIONAL WRITING PROJECT | 92-CA03-SEED2017-CRWPAI | 84 | 367 | 5,558 | | |
| | NATIONAL WRITING PROJECT | 17CSMP-CWP-UCSB | 84 | 367 | 1,170 | | |
| | | | | | 133,428 | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | NATIONAL MATH AND SCIENCE INITIATIVE, INC. | 20160003 | 84 | 411 | 508,211 | | |
| | ONU TECHNOLOGY, INC. | 201504131 | 84 | 411 | 91,226 | | |
| | | | | | 599,436 | | |
| | Direct | | | | | | |
| | DEPARTMENT OF EDUCATION | VARIOUS | 84 | RD | 23,085,825 | | 3,724,842 |
| | Passthrough/Partial Passthrough | | | | | | |
| | CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION | ESSA18-CWP-UCSB | 84 | RD | 20,669 | | |
| | UNIVERSITY OF MICHIGAN | 3004027875 | 84 | RD | 2,380 | | |
| | | | | | 23,108,873 | | 3,724,842 |
| DEPARTMENT OF EDUCATION Total | | | | | 26,365,004 | | 4,391,588 |
| SCHOLARSHIP FOUNDATIONS | Direct | | | | | | |
| | SMITHSONIAN | VARIOUS | 85 | RD | 1,211,274 | | 28,611 |
| | | | | | 1,211,274 | | 28,611 |
| SCHOLARSHIP FOUNDATIONS Total | | | | | 1,211,274 | | 28,611 |
| NATIONAL ARCHIVES & RECORDS ADMINISTRATION | Passthrough/Partial Passthrough | | | | | | |
| | ANDREW W. MELLON FOUNDATION | A18-0534-001 | 89 | 003 | 53,779 | | 27,384 |
| | | | | | 53,779 | | 27,384 |
| | Direct | | | | | | |
| | NATIONAL ARCHIVES AND RECORDS ADMINISTRATION | VARIOUS | 89 | RD | 26,996 | | |
| | | | | | 26,996 | | |
| NATIONAL ARCHIVES & RECORDS ADMINISTRATION Total | | | | | 80,775 | | 27,384 |
| UNITED STATES INSTITUTE OF PEACE | Passthrough/Partial Passthrough | | | | | | |
| | ATOX BIO | 201600397 | 91 | RD | 34,395 | | |
| | | | | | 34,395 | | |
| UNITED STATES INSTITUTE OF PEACE Total | | | | | 34,395 | | |
| NATIONAL COUNCIL ON DISABILITY | Passthrough/Partial Passthrough | | | | | | |
| | THE SCRIPPS RESEARCH INSTITUTE | 8717C | 92 | 273 | -2,568 | | |
| | | | | | -2,568 | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | UNIVERSITY OF VIRGINIA | SUB GB1025 150187 (HL127654) | 92 | 837 | 173,626 | | |
| | | | | | 173,626 | | |
| NATIONAL COUNCIL ON DISABILITY Total | | | | | 171,057 | | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | Passthrough/Partial Passthrough | | | | | | |
| | UNIVERSITY OF MICHIGAN | 3004796644 | 93 | 242 | 17,598 | | |
| | | | | | 17,598 | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | AFRICAN MEDICAL AND RESEARCH FOUNDATION | 37188-1052 | 93 | 001 | -4,888 | | |
| | RIVERSIDE-SAN BERNARDINO COUNTY INDIAN HEALTH, INC | 20163878 | 93 | 001 | 43,239 | | |
| | | | | | 38,352 | | |
| | Passthrough/Partial Passthrough | | | | | | |

UNIVERSITY OF CALIFORNIA
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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|---|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | DXTERTY DIAGNOSTICS | 20150825 | 93 | 004 | -19,524 | -19,524 |
| | Passthrough/Partial Passthrough UNIVERSITY OF ARIZONA | 278887-CYC2 | 93 | 061 | 3,651 | 3,651 |
| | Passthrough/Partial Passthrough MAKERERE UNIVERSITY | METS-A-01 | 93 | 067 | 306,158 | 102,665 |
| | UNIVERSITY OF WASHINGTON | UWSC10826 | 93 | 067 | 408,823 | 408,823 |
| | Passthrough/Partial Passthrough CEDARS-SINAI MEDICAL CENTER | 81438 | 93 | 077 | 17,970 | |
| | HEALTH RESEARCH, INC. | B6958 | 93 | 077 | 69 | |
| | OREGON HEALTH & SCIENCE UNIVERSITY | R01HL144384 | 93 | 077 | 49,974 | |
| | PORTLAND STATE UNIVERSITY | 007815 | 93 | 077 | 19,843 | |
| | UNIVERSITY OF ILLINOIS AT CHICAGO | 2013-02549-04-00 | 93 | 077 | 47,957 | |
| | UNIVERSITY OF MICHIGAN | SUBK00007976 | 93 | 077 | 3,130 | |
| | UNIVERSITY OF MINNESOTA | C0280 | 93 | 077 | -10,899 | |
| | UNIVERSITY OF MINNESOTA | P006754502 | 93 | 077 | 408,521 | |
| | UNIVERSITY OF WISCONSIN-MADISON | 605K356 | 93 | 077 | 276,474 | 813,039 |
| | Passthrough/Partial Passthrough CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD DISORDERS | SUB CIBDIX2015CDC-UCSD-1 (DD0 | 93 | 080 | 23,793 | 23,793 |
| | Passthrough/Partial Passthrough STRATATECH LLC | STRATA2016-CYC1 | 93 | 081 | 93,776 | 93,776 |
| | Passthrough/Partial Passthrough HARVARD PILGRIM HEALTH CARE | HPHC-203160-CYC2 | 93 | 084 | 906,954 | |
| | HARVARD PILGRIM HEALTH CARE | HPHC-204704-CYC2 | 93 | 084 | 155,073 | |
| | HARVARD PILGRIM HEALTH CARE | HPHC-204773-CYC3 | 93 | 084 | 25,510 | 1,087,537 |
| | Passthrough/Partial Passthrough SANFORD RESEARCH | SR-2018-14 | 93 | 085 | 75,267 | 75,267 |
| | Passthrough/Partial Passthrough HEALTH QUALITY PARTNERS | SUB WH-AST-17-001_UCSD_WALLACI | 93 | 088 | 10,047 | 10,047 |
| | Passthrough/Partial Passthrough CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 18-0372 | 93 | 103 | 28,856 | |
| | CEDARS-SINAI MEDICAL CENTER | 0001494325 | 93 | 103 | 20,692 | |
| | CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS. | 87525 | 93 | 103 | 4 | |
| | CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS. | SUB GENFD0001336281 (FD006003) | 93 | 103 | 115,840 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | 3200840819:1 | 93 | 103 | 88,908 | |
| | DUKE UNIVERSITY | A039104 | 93 | 103 | 5,520 | |
| | JOHN WAYNE INSTITUTE FOR CANCER TREATMENT AND RESEARCH | 873C6 | 93 | 103 | 124 | |
| | JOHNS HOPKINS UNIVERSITY | 2002610941 | 93 | 103 | 24,659 | |
| | NEW YORK MEDICAL COLLEGE | 120005 | 93 | 103 | 12,163 | |
| | STANFORD UNIVERSITY | HHSF223201610081C | 93 | 103 | 6,054 | |
| | STANFORD UNIVERSITY | 61334664-122011:2 | 93 | 103 | 10,406 | |
| | TRACE-ABILITY, INC | TA-UCSF-SUB1 | 93 | 103 | 35,460 | |
| | REAL PREVENTION LLC | RP-205497-CYC2 | 93 | 103 | 24,105 | |
| | INSTITUTE FOR ADVANCED CLINICAL TRIALS FOR CHILDREN | 20191636 | 93 | 103 | 5,320 | 378,109 |
| | Passthrough/Partial Passthrough CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD DISORDERS | CIBDIX2012HRSA-UCSF | 93 | 110 | 86,606 | |
| | CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD DISORDERS | SUB CIBDIX2012HRSA-UCSD-7(5 H3 | 93 | 110 | 44,785 | |
| | CHILDREN'S HOSPITAL AND RESEARCH CENTER FOUNDATION | 807958.UCSF.18.1 | 93 | 110 | 2,421 | |
| | CHILDREN'S HOSPITAL AND RESEARCH CENTER FOUNDATION | U1AMC28548 | 93 | 110 | 2,420 | |
| | MASSACHUSETTS GENERAL HOSPITAL | 227146-CYC3 | 93 | 110 | 1,766 | |
| | MASSACHUSETTS GENERAL HOSPITAL | MGH-205328-CYC3 | 93 | 110 | 144,545 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|---|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | PARTNERS HEALTHCARE SYSTEM, INC | 226858-CYC3 | 93 | 110 | 28,095 | |
| | PARTNERS HEALTHCARE SYSTEM, INC | 226859-CYC3 | 93 | 110 | 253,223 | 70,832 |
| | RAND CORP | 9920150142 | 93 | 110 | -910 | |
| | | | | | 562,951 | 70,832 |
| | Passthrough/Partial Passthrough | | | | | |
| | BECKMAN RESEARCH INSTITUTE OF THE CITY OF HOPE | 52044.2001758.669302 | 93 | 113 | 19,347 | |
| | CALIFORNIA STATE UNIVERSITY, NORTHRIDGE | F-14-3503UCLA:3 | 93 | 113 | 1,567 | |
| | CANCER PREVENTION INSTITUTE OF CALIFORNIA | 78747 | 93 | 113 | -2,929 | |
| | CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI | U01ES029234 | 93 | 113 | 224,513 | |
| | COLORADO STATE UNIVERSITY | 1-R01ES023688-01A1 | 93 | 113 | 11,707 | |
| | COLUMBIA UNIVERSITY | SUB 3(GG010691) (ES025225) | 93 | 113 | 301,157 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 0255-8271-4609 | 93 | 113 | 87,766 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | A17-0820-002 | 93 | 113 | 67,844 | |
| | JOHNS HOPKINS UNIVERSITY | 2003191417 | 93 | 113 | 21,012 | |
| | JOHNS HOPKINS UNIVERSITY | 2003218455 | 93 | 113 | 157,604 | |
| | MICROVI BIOTECHNOLOGY | 89634 | 93 | 113 | -225 | |
| | PRINCETON UNIVERSITY | SUB00000327 | 93 | 113 | 13,436 | |
| | RESEARCH FOUNDATION FOR MENTAL HYGIENE | R01ES029281 | 93 | 113 | 97,281 | |
| | SALK INSTITUTE FOR BIOLOGICAL STUDIES | SUB NONE (ES025585) | 93 | 113 | 143,397 | |
| | SALK INSTITUTE FOR BIOLOGICAL STUDIES | SUB P0170265 (ES025585) | 93 | 113 | 72,624 | |
| | SUNY UNIVERSITY AT ALBANY | B5898 | 93 | 113 | -3 | |
| | UNIVERSITY OF ARIZONA | 84B45 | 93 | 113 | 95,704 | |
| | UNIVERSITY OF COLORADO BOULDER | SUB 1557262 (ES027853) | 93 | 113 | 22,537 | |
| | UNIVERSITY OF COLORADO DENVER | SUB FY17.625.007(ES027698) | 93 | 113 | 389,338 | |
| | UNIVERSITY OF COLORADO DENVER | FY17.625.006-CYC2 | 93 | 113 | 608,035 | |
| | UNIVERSITY OF MICHIGAN | 008002 | 93 | 113 | 6,140 | |
| | UNIVERSITY OF MISSOURI | 005947 | 93 | 113 | 76,864 | |
| | UNIVERSITY OF MISSOURI | 010644 | 93 | 113 | 56,891 | |
| | UNIVERSITY OF NEW MEXICO | 80602 | 93 | 113 | 188,212 | |
| | UNIVERSITY OF PITTSBURGH | U01AG012553 | 93 | 113 | -69 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 61933158 | 93 | 113 | 107,307 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 102683343 | 93 | 113 | 8,394 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | A19-0531-001 | 93 | 113 | 19,096 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | SUB 109980714 (ES007048) | 93 | 113 | 10,075 | |
| | UNIVERSITY OF TEXAS-ARLINGTON | R21ES028131 | 93 | 113 | 14,830 | |
| | UNIVERSITY OF TEXAS-AUSTIN | A16-0601-003 | 93 | 113 | 154,269 | |
| | WASHINGTON STATE UNIVERSITY | 104099-G003798 | 93 | 113 | 40,477 | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | WU-16-159 | 93 | 113 | 15,055 | |
| | | | | | 3,029,250 | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | A8156 | 93 | 116 | -1,153 | |
| | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | B1726 | 93 | 116 | -12,777 | |
| | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 17-10035 | 93 | 116 | 3,183,637 | |
| | | | | | 3,169,707 | |
| | Passthrough/Partial Passthrough | | | | | |
| | BIOVINC LLC | 2R44DE025524-02 | 93 | 121 | 235,047 | |
| | BRIGHAM AND WOMEN'S HOSPITAL | 110670 | 93 | 121 | 186,615 | |
| | BRIGHAM AND WOMEN'S HOSPITAL | UM1-AI068636 HAVLIR | 93 | 121 | -36,930 | |
| | CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY | SA0000601 | 93 | 121 | 33,408 | |
| | COLUMBIA UNIVERSITY | 1(GG013390-01) | 93 | 121 | 200,953 | |
| | DUKE UNIVERSITY | 2036412 | 93 | 121 | 228,167 | |
| | DUKE UNIVERSITY | 5R01DE025444 | 93 | 121 | 714 | |
| | HARVARD UNIVERSITY | 114244-5097391 | 93 | 121 | 15,445 | |
| | JOHNS HOPKINS UNIVERSITY | 3P50DE019032-11S2 | 93 | 121 | 14,632 | |
| | NEW YORK UNIVERSITY | F8605-02 S | 93 | 121 | 658 | |
| | PALO ALTO VETERANS INSTITUTE FOR RESEARCH, INC. | R01DE023113 | 93 | 121 | 14,179 | |
| | SCARLESS LABORATORIES, INC | 2SB1DE026972-04A1 | 93 | 121 | 49,968 | |
| | STANFORD UNIVERSITY | 1U01DE024430-01/61206320 | 93 | 121 | 325,570 | |
| | STANFORD UNIVERSITY | 61676501-123526 | 93 | 121 | 15,285 | |
| | THE UNIVERSITY OF ALABAMA AT BIRMINGHAM | 000504965-001 | 93 | 121 | 16,712 | |
| | UNIVERSITY AT BUFFALO (A STATE UNIVERSITY OF NEW YORK CAMPUS) | R56DE025218 | 93 | 121 | 32,065 | |
| | UNIVERSITY OF COLORADO DENVER | FY18.530.001-CYC1 | 93 | 121 | 219,979 | |
| | UNIVERSITY OF COLORADO DENVER | FY19.655.001-CYC1 | 93 | 121 | 16,698 | |
| | UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE) | FY15.236.004 | 93 | 121 | 139,720 | |
| | UNIVERSITY OF MICHIGAN | 3004085830 | 93 | 121 | 367,922 | |
| | UNIVERSITY OF MICHIGAN | 3004119292 | 93 | 121 | 5,126 | |
| | UNIVERSITY OF MICHIGAN | 3004644384 | 93 | 121 | 86,272 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---|---|--|----------------|-----------|----------------------|------------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5105898 | 93 | 121 | 952 | | |
| | UNIVERSITY OF NORTH CAROLINA SYSTEM | R01DE028146 | 93 | 121 | 240,245 | | |
| | UNIVERSITY OF PENNSYLVANIA | 80435 | 93 | 121 | -3,832 | | |
| | UNIVERSITY OF PENNSYLVANIA | 573964:1 | 93 | 121 | 174,656 | | |
| | UNIVERSITY OF PUERTO RICO | SUB NONE (DE027235) | 93 | 121 | 17,391 | | |
| | UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON | 0010816B | 93 | 121 | 190,566 | | |
| | UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON | 0011414C | 93 | 121 | 161,766 | | |
| | UNIVERSITY OF WASHINGTON | 010348 | 93 | 121 | 13,469 | | |
| | | | | | | 2,963,416 | |
| | Passthrough/Partial Passthrough | | | | | | |
| | UNIVERSITY OF KENTUCKY/UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION | 3210000758-18-176 | 93 | 135 | 67,559 | | |
| | HELUNA HEALTH | NU50CK000410-04-04 | 93 | 135 | 29,710 | | |
| | | | | | | 97,269 | |
| | Passthrough/Partial Passthrough | | | | | | |
| | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 17-10480 | 93 | 136 | 211,326 | | |
| | HELUNA HEALTH | 0392.0101 | 93 | 136 | 5,995 | | |
| | | | | | | 217,321 | |
| | Passthrough/Partial Passthrough | | | | | | |
| | BOSTON UNIVERSITY | 4500002725-CYC1 | 93 | 143 | 43,096 | | |
| | | | | | | 43,096 | |
| | Passthrough/Partial Passthrough | | | | | | |
| | CITY AND COUNTY OF SAN FRANCISCO | DPHC17000179 | 93 | 157 | 948,070 | 452,681 | |
| | | | | 948,070 | 452,681 | | |
| Passthrough/Partial Passthrough | | | | | | | |
| AMERICAN COLLEGE OF MEDICAL TOXICOLOGY INC. | 41U61TS000238-R9-01 | 93 | 161 | 148,695 | | | |
| | | | | 148,695 | | | |
| Passthrough/Partial Passthrough | | | | | | | |
| BAYLOR COLLEGE OF MEDICINE | 7000000779 | 93 | 172 | 37,618 | | | |
| BROAD INSTITUTE INC. | A17-0095-002 | 93 | 172 | 88,331 | | | |
| BROAD INSTITUTE INC. | A19-0066-001 | 93 | 172 | 736,854 | | | |
| CALIFORNIA INSTITUTE OF TECHNOLOGY | 18B-1098090-CYC3 | 93 | 172 | 1,808,694 | | | |
| CALIFORNIA STATE UNIVERSITY, NORTHRIDGE | A18-0057-S001 | 93 | 172 | 23,376 | | | |
| HARVARD UNIVERSITY | 117112-5098551 | 93 | 172 | 34,466 | | | |
| HARVARD UNIVERSITY | 117112-5098555:3 | 93 | 172 | 144,404 | | | |
| HARVARD UNIVERSITY | 153056.5112935.0507 | 93 | 172 | 41,373 | | | |
| INDIANA UNIVERSITY | 88984 | 93 | 172 | -295 | | | |
| KAISER PERMANENTE DIVISION OF RESEARCH | OOS030229-UCSF | 93 | 172 | 291,526 | | | |
| LUDWIG INSTITUTE FOR CANCER RESEARCH | SUB 242201-05003A (HG008135) | 93 | 172 | 47,642 | | | |
| LUDWIG INSTITUTE FOR CANCER RESEARCH | SUB 242201-05003B (HG008135) | 93 | 172 | -1,421 | | | |
| NEW YORK GENOME CENTER INC | UM1-UCSF-2 | 93 | 172 | 20,882 | | | |
| OREGON HEALTH & SCIENCE UNIVERSITY | 1013661_UCSF | 93 | 172 | 208,825 | | | |
| RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | 0761 | 93 | 172 | 12,547 | | | |
| SRI INTERNATIONAL | A17-0549-002 | 93 | 172 | 142,037 | | | |
| STANFORD UNIVERSITY | 61280478-121626 | 93 | 172 | 239,670 | | | |
| STANFORD UNIVERSITY | 61285160-123166 | 93 | 172 | 683,354 | | | |
| STANFORD UNIVERSITY | 59990 | 93 | 172 | -150 | | | |
| STANFORD UNIVERSITY | 61965606-134738 | 93 | 172 | 41,908 | | | |
| UNIVERSITY OF CONNECTICUT | SUB UCHC6-66263883 (HG007005) | 93 | 172 | 1,573 | | | |
| UNIVERSITY OF CONNECTICUT | SUB UCHC7-101026114 (HG009889 | 93 | 172 | 1,152,890 | | | |
| UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL | OSP2017129 | 93 | 172 | -74,562 | | | |
| UNIVERSITY OF SOUTHERN CALIFORNIA | 93063336 | 93 | 172 | 160,596 | | | |
| UNIVERSITY OF SOUTHERN CALIFORNIA | 97780851 | 93 | 172 | 15,821 | | | |
| UNIVERSITY OF WASHINGTON | UWSC8775 | 93 | 172 | 6,593 | | | |
| WASHINGTON UNIVERSITY IN ST. LOUIS | WU-18-279 | 93 | 172 | 38,787 | | | |
| EUROPEAN BIOINFORMATICS INSTITUTE | A17-0370-002 | 93 | 172 | 213,382 | | | |
| ALBERT EINSTEIN COLLEGE OF MEDICINE | SUB 311106 (HG008153) | 93 | 172 | 654,963 | | | |
| SCRIBE BIOSCIENCES, INC. | A131308 | 93 | 172 | 26,644 | | | |
| | | | | | 6,798,327 | | |
| Passthrough/Partial Passthrough | | | | | | | |
| CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY | SUB SA0000551 (DC015046) | 93 | 173 | 287,655 | | | |
| FATHER FLANAGANS BOYS HOME | 96411-B | 93 | 173 | 7,211 | | | |
| OREGON HEALTH & SCIENCE UNIVERSITY | 008310 | 93 | 173 | 166,042 | | | |
| RESEARCH FOUNDATION FOR STATE UNIVERSITY OF NEW YORK, THE | 1048815 | 93 | 173 | 73,220 | | | |

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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---|--|--|-----------------|-----------|----------------------|------------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | TEMPLE UNIVERSITY | 263001-UCI-CYC1 | 93 | 173 | 77,331 | | |
| | UNIVERSITY OF ILLINOIS | 89189 | 93 | 173 | -138 | | |
| | UNIVERSITY OF PITTSBURGH | 0062065 (131832-1) | 93 | 173 | 167,250 | | |
| | UNIVERSITY OF SOUTH CAROLINA | 18-3690-CYC1 | 93 | 173 | 172,894 | | |
| | UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON | 0011468C-CYC3 | 93 | 173 | 18,414 | | |
| | UNIVERSITY OF TEXAS-AUSTIN | R03DC013403 | 93 | 173 | 2,286 | | |
| | UNIVERSITY OF TEXAS-AUSTIN | UTA17-000878 | 93 | 173 | 20,749 | | |
| | UNIVERSITY OF TEXAS-AUSTIN | UTA17-000879 | 93 | 173 | 274,258 | | |
| | UNIVERSITY OF UTAH | 10041913-027 | 93 | 173 | 4,718 | | |
| | UNIVERSITY OF WISCONSIN-MADISON | SUB 830K966 (DC004336) | 93 | 173 | 25,711 | | |
| | WEST VIRGINIA UNIVERSITY | SUB 05-159-UCSD (DC007695) | 93 | 173 | 18,339 | | |
| | FLORIDA ATLANTIC UNIVERSITY | 010442 | 93 | 173 | 38,793 | | |
| | | | | | | 1,354,731 | |
| | Passthrough/Partial Passthrough | | | | | | |
| | | UNIVERSITY OF ROCHESTER | 417201:1 | 93 | 185 | 42,286 | |
| | | UNIVERSITY OF ROCHESTER | 80132 | 93 | 185 | -3,440 | |
| | | | | | | 38,846 | |
| | Passthrough/Partial Passthrough | | | | | | |
| | | MICHIGAN STATE UNIVERSITY | RC107653-UCSF | 93 | 197 | 72,085 | |
| | | | | | | 72,085 | |
| | Passthrough/Partial Passthrough | | | | | | |
| | | HEALTH RESEARCH, INC. | R01AT010216 | 93 | 213 | 9,761 | |
| | | NEW YORK UNIVERSITY | 17-A0-00-008501 | 93 | 213 | 19,012 | |
| | | NEXTRAST, INC | A130673 | 93 | 213 | 170,188 | |
| | | RAND CORP | 9920140048:07 | 93 | 213 | 26,921 | |
| | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | A125156 | 93 | 213 | -20,381 | | |
| | UNIVERSITY OF CONNECTICUT | 87524 | 93 | 213 | -49,043 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA LANG (AT 007936) | 93 | 213 | -45 | | |
| | LAUREATE INSTITUTE FOR BRAIN RESEARCH | SUB 1R34AT009889(AT009889) | 93 | 213 | 8,062 | | |
| | | | | | 164,475 | | |
| Passthrough/Partial Passthrough | | | | | | | |
| | CEDARS-SINAI MEDICAL CENTER | 0001296869:3 | 93 | 226 | 22,129 | | |
| | CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI | 80169 | 93 | 226 | -798 | | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | 321060 | 93 | 226 | -266 | | |
| | DARTMOUTH COLLEGE | R814 | 93 | 226 | 30,619 | | |
| | DARTMOUTH COLLEGE | R815 | 93 | 226 | 345,019 | | |
| | DUKE UNIVERSITY | 203-7629 | 93 | 226 | 88,406 | | |
| | DUKE UNIVERSITY | 2038054 | 93 | 226 | 15,535 | | |
| | DUKE UNIVERSITY | 203-7623 | 93 | 226 | 35,485 | | |
| | DUKE UNIVERSITY | 107465C | 93 | 226 | 9,457 | | |
| | DUKE UNIVERSITY | 5P50HS023418 | 93 | 226 | 15,750 | | |
| | JOHNS HOPKINS UNIVERSITY | 2003396916 | 93 | 226 | 73,772 | | |
| | JOHNS HOPKINS UNIVERSITY | 2002441400-CYC3 | 93 | 226 | 52,688 | | |
| | NEW YORK UNIVERSITY | D3952 | 93 | 226 | 139,477 | | |
| | RAND CORP | 9920150014:04 | 93 | 226 | 13,689 | | |
| | RAND CORP | 9920160022:04 | 93 | 226 | 83,384 | | |
| | RAND CORP | 9920180026 | 93 | 226 | 82,331 | | |
| | RHODE ISLAND HOSPITAL | B4729 | 93 | 226 | -768 | | |
| | STANFORD UNIVERSITY | 6085-6377-114856 | 93 | 226 | 46,418 | | |
| | UNIVERSITY OF COLORADO DENVER | SUB FY19.817.001 (HS024597) | 93 | 226 | 12,560 | | |
| | UNIVERSITY OF ROCHESTER | 417278/URFAO GR51752 | 93 | 226 | 15,403 | | |
| | UNIVERSITY OF ROCHESTER | 416933-CYC2 | 93 | 226 | 54,303 | | |
| | UNIVERSITY OF ROCHESTER | 417256:3 | 93 | 226 | 12,235 | | |
| | UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON | 0011289 | 93 | 226 | 21,187 | | |
| | UNIVERSITY OF UTAH | 10042477-02:01 | 93 | 226 | 15,300 | | |
| | VANDERBILT UNIVERSITY | VUMC 57336 | 93 | 226 | 2,690 | | |
| | KAISER FOUNDATION RESEARCH INSTITUTION | HHS2902015000071 | 93 | 226 | 116,362 | | |
| | KAISER FOUNDATION RESEARCH INSTITUTION | TO 7 HHS2902015000071 | 93 | 226 | 46,260 | | |
| | AMERICAN COLLEGE OF SURGEONS | A129384 | 93 | 226 | 66,099 | | |
| | | | | | 1,414,726 | | |
| Passthrough/Partial Passthrough | | | | | | | |
| | UNIVERSITY OF COLORADO DENVER | 78568 | 93 | 237 | 77,094 | | |
| | | | | | 77,094 | | |
| Passthrough/Partial Passthrough | | | | | | | |

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Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|--|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | ADVANCED BRAIN MONITORING, INC. | 79624 | 93 | 242 | -46 | |
| | ALLEN/LOEB ASSOCIATES | A127351 | 93 | 242 | 13,947 | |
| | ALLEN/LOEB ASSOCIATES | R44MH099917 | 93 | 242 | 53,142 | |
| | BAYLOR COLLEGE OF MEDICINE | 7000000444 | 93 | 242 | 86,446 | |
| | BRIGHAM AND WOMEN'S HOSPITAL | SUB 112807 (MH091448) | 93 | 242 | 139,989 | |
| | BROWN UNIVERSITY | 00001172:1 | 93 | 242 | 178,034 | |
| | CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY | SUB SA0000067 (MH100260) | 93 | 242 | 15,585 | |
| | CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY | SUB SA0000475(MH103494) | 93 | 242 | 7,356 | |
| | CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY | SUB SA0000478 (MH107802) | 93 | 242 | 18,767 | |
| | CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO STATE UNIVERSITY | S16-0021 | 93 | 242 | 103,638 | |
| | CEDARS-SINAI MEDICAL CENTER | SUB 0255-2131-4609(MH111499) | 93 | 242 | 438,457 | |
| | COLD SPRING HARBOR LABORATORY | SUB 64090112 (MH109113) | 93 | 242 | 151,310 | |
| | COLUMBIA UNIVERSITY MEDICAL CENTER | 008292 | 93 | 242 | 16,560 | |
| | DANA-FARBER CANCER INSTITUTE | B4251 | 93 | 242 | 155 | |
| | DIGITAL ARTEFACTS, LLC | SUB 20162384 (MH099964) | 93 | 242 | 156,608 | |
| | DREXEL UNIVERSITY | R01MH115715 | 93 | 242 | 919,107 | |
| | EMORY UNIVERSITY | SUB T674498(MH108826) | 93 | 242 | 98,065 | |
| | EMORY UNIVERSITY | SUB T860026 (MH110364) | 93 | 242 | 91,978 | |
| | EMORY UNIVERSITY | SUB A051335 (MH118092) | 93 | 242 | 25,669 | |
| | EPIGEN BIOSCIENCES, INC. | SUB 20173585 (MH115529) | 93 | 242 | 64,623 | |
| | GEORGE WASHINGTON UNIVERSITY | 17-M95 | 93 | 242 | 361,038 | |
| | GEORGE WASHINGTON UNIVERSITY | 81192 | 93 | 242 | 110,678 | |
| | GEORGE WASHINGTON UNIVERSITY | SUB 18-M60(MH104310) | 93 | 242 | 2,977 | |
| | GEORGETOWN UNIVERSITY | SUB 411069 GR411012-UCSD (MH10 | 93 | 242 | 105,163 | |
| | GLADSTONE INSTITUTES | R2419-A | 93 | 242 | 254,461 | |
| | HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY MEDICINE | 834958 | 93 | 242 | 342 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 025528514609 | 93 | 242 | 42,071 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 73B60 | 93 | 242 | 56,128 | |
| | JOHNS HOPKINS UNIVERSITY | SUB 2003199958(MH111516) | 93 | 242 | 154,790 | |
| | JOHNS HOPKINS UNIVERSITY | SUB TASK LDR03 (A1068632) | 93 | 242 | 21,792 | |
| | JOHNS HOPKINS UNIVERSITY | 88477 | 93 | 242 | 1,117 | |
| | JOHNS HOPKINS UNIVERSITY | 2002933836-CYC3 | 93 | 242 | 10,565 | |
| | JOHNS HOPKINS UNIVERSITY | 2003097374:2 | 93 | 242 | 135,513 | |
| | JOHNS HOPKINS UNIVERSITY | 88417 | 93 | 242 | 1,955 | |
| | KENNEDY KRIEGER INSTITUTE | SUB 110268-0719 (MH085328) | 93 | 242 | 6,547 | |
| | MASSACHUSETTS GENERAL HOSPITAL | 88682 | 93 | 242 | -126 | |
| | MCLEAN HOSPITAL | SUB 401185 (MH109334) | 93 | 242 | 233,931 | |
| | MCLEAN HOSPITAL | 401366-CYC1 | 93 | 242 | 91,753 | |
| | NEW YORK UNIVERSITY | B7131 | 93 | 242 | -12 | |
| | OREGON HEALTH & SCIENCE UNIVERSITY | 58340 | 93 | 242 | -213 | |
| | PALO ALTO VETERANS INSTITUTE FOR RESEARCH, INC. | R21MH117634 | 93 | 242 | 11,077 | |
| | PRINCETON UNIVERSITY | SUB0000130 | 93 | 242 | 108,875 | |
| | RADY CHILDREN'S HOSPITAL-SAN DIEGO | SUB 1001923(MH111491) | 93 | 242 | 15,805 | |
| | RAND CORP | 9920150088 | 93 | 242 | 89,384 | |
| | RAND CORP | 9920150037:06 | 93 | 242 | 160,788 | |
| | RESEARCH FOUNDATION FOR MENTAL HYGIENE | 122583:3 | 93 | 242 | 6,024 | |
| | RESEARCH FOUNDATION FOR MENTAL HYGIENE | 79405 | 93 | 242 | -1,084 | |
| | RUSH UNIVERSITY MEDICAL CENTER | 13041702-SUB01-CYC1 | 93 | 242 | 80,666 | |
| | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | 009727 | 93 | 242 | 161,753 | |
| | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | 0402 | 93 | 242 | 20,864 | |
| | SALK INSTITUTE FOR BIOLOGICAL STUDIES | SUB 20162859(MH111534) | 93 | 242 | 26,775 | |
| | SALK INSTITUTE FOR BIOLOGICAL STUDIES | SUB P0244872(MH114831) | 93 | 242 | 116,039 | |
| | SALK INSTITUTE FOR BIOLOGICAL STUDIES | SUB0230285(MH1127630) | 93 | 242 | 18,610 | |
| | SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE | SUB 59273-12708-UCSD (MH106865 | 93 | 242 | 192,557 | |
| | STANFORD UNIVERSITY | 60546456-108656:4 | 93 | 242 | 41,659 | |
| | STANFORD UNIVERSITY | 61494937-126516 | 93 | 242 | 14,016 | |
| | STANFORD UNIVERSITY | 61540206-121859 | 93 | 242 | 404,407 | |
| | STANFORD UNIVERSITY | 61593944-123692 | 93 | 242 | 310,643 | |
| | STANFORD UNIVERSITY | 61615363-49958:1 | 93 | 242 | 3,606 | |
| | STANFORD UNIVERSITY | R01MH108319 | 93 | 242 | 180,034 | |
| | STANFORD UNIVERSITY | SUB 60444056-108656 (MH100900) | 93 | 242 | 16,015 | |
| | STANFORD UNIVERSITY | 61835882-132392 | 93 | 242 | 281,022 | |
| | STANFORD UNIVERSITY | 62101628-128139 | 93 | 242 | 30,754 | |
| | STANFORD UNIVERSITY | B5167 | 93 | 242 | -4,942 | |
| | STANFORD UNIVERSITY | SUB 62031592-127992 (MH114856) | 93 | 242 | 15,772 | |
| | TEMPLE UNIVERSITY | 259238 | 93 | 242 | 112,019 | |
| | THE SCRIPPS RESEARCH INSTITUTE | SUB 5-50366 (MH100175) | 93 | 242 | 250,780 | |
| | THE SCRIPPS RESEARCH INSTITUTE | 5-53359 | 93 | 242 | 185,084 | |
| | THE UNIVERSITY OF ALABAMA AT BIRMINGHAM | 000506211-002 | 93 | 242 | 150,912 | |
| | THE UNIVERSITY OF ALABAMA AT BIRMINGHAM | 000519413-001 | 93 | 242 | 78,830 | |

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|---|--|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | THINK-NOW INC. | 20153040 | 93 | 242 | | -31 |
| | UNIVERSITY OF CAPE TOWN | A125318 | 93 | 242 | | 21,363 |
| | UNIVERSITY OF CHICAGO | SUB FP060924 (MH087214) | 93 | 242 | | 122,404 |
| | UNIVERSITY OF CHICAGO | FP067605-01-PR | 93 | 242 | | 316,943 |
| | UNIVERSITY OF CHICAGO | FP056858-02-PR | 93 | 242 | | 94,278 |
| | UNIVERSITY OF COLORADO DENVER | FY17.496.001 | 93 | 242 | | 61,103 |
| | UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE) | 1556802 | 93 | 242 | | 37,324 |
| | UNIVERSITY OF CONNECTICUT | 136123 | 93 | 242 | | 54,630 |
| | UNIVERSITY OF FLORIDA | UFDSP00012225 | 93 | 242 | | 163,987 |
| | UNIVERSITY OF ILLINOIS | 17128 | 93 | 242 | | 70,412 |
| | UNIVERSITY OF MARYLAND, BALTIMORE | R01MH065034 | 93 | 242 | | 74,531 |
| | UNIVERSITY OF MASSACHUSETTS AMHERST | SUB 18-010032 B00(MH114277) | 93 | 242 | | 89,876 |
| | UNIVERSITY OF MIAMI | SUB 663805 (MH100942) | 93 | 242 | | 858,985 |
| | UNIVERSITY OF MICHIGAN | 3004476836 | 93 | 242 | | 60,127 |
| | UNIVERSITY OF MICHIGAN | 3003844676-CYC4 | 93 | 242 | | 24,267 |
| | UNIVERSITY OF MICHIGAN | 3004636437-CYC2 | 93 | 242 | | 17,710 |
| | UNIVERSITY OF MICHIGAN | 35B30 | 93 | 242 | | 797 |
| | UNIVERSITY OF MICHIGAN | SUBK00008746 | 93 | 242 | | 323,866 |
| | UNIVERSITY OF MINNESOTA | N006175601 | 93 | 242 | | 13,788 |
| | UNIVERSITY OF MINNESOTA | N006909501 | 93 | 242 | | 89,520 |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5104172 | 93 | 242 | | 104,171 |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5104173 | 93 | 242 | | 150,095 |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5106481 | 93 | 242 | | 4,027 |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5107035 | 93 | 242 | | 92,489 |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | A7710 | 93 | 242 | | -20 |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5101901 | 93 | 242 | | 33,521 |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5101902:3 | 93 | 242 | | 37,476 |
| | UNIVERSITY OF PENNSYLVANIA | SUB 569829(MH109382) | 93 | 242 | | 89,647 |
| | UNIVERSITY OF PENNSYLVANIA | SUB 569975 (MH11389) | 93 | 242 | | 60,574 |
| | UNIVERSITY OF PENNSYLVANIA | 570052:1 | 93 | 242 | | 35,988 |
| | UNIVERSITY OF PITTSBURGH | 0030253 (127587-3) | 93 | 242 | | 7,258 |
| | UNIVERSITY OF PITTSBURGH | 79655 | 93 | 242 | | -99,594 |
| | UNIVERSITY OF PITTSBURGH | 0057692 (130512-1) | 93 | 242 | | 5,425 |
| | UNIVERSITY OF PITTSBURGH | 0061652 (131408-1) | 93 | 242 | | 10,807 |
| | UNIVERSITY OF PITTSBURGH | 80968 | 93 | 242 | | 667 |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 104020221-CYC1 | 93 | 242 | | 23,834 |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 90342607 | 93 | 242 | | 104,290 |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | SUB 96417636 (MH114829) | 93 | 242 | | 593,554 |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 108530993 | 93 | 242 | | 175,448 |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 44748603:04 | 93 | 242 | | 24,030 |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 81570 | 93 | 242 | | 78 |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 90341158:1 | 93 | 242 | | 96,232 |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | SUB 104478552 (MH115005) | 93 | 242 | | 153,280 |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | SUB 111299562 (MH116990) | 93 | 242 | | 517,021 |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 104478552:1 | 93 | 242 | | 86,718 |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 113864507 | 93 | 242 | | 80,224 |
| | UNIVERSITY OF TEXAS-DALLAS | SUB 1705329 (MH112620) | 93 | 242 | | 229,026 |
| | UNIVERSITY OF VIRGINIA | GB10691.PO#2133383 | 93 | 242 | | 290,545 |
| | UNIVERSITY OF WASHINGTON | UWSC8566 | 93 | 242 | | 1,738 |
| | UNIVERSITY OF WASHINGTON | UWSC9388 | 93 | 242 | | 46,713 |
| | UNIVERSITY OF WASHINGTON | UWSC10127 | 93 | 242 | | 111,092 |
| | UNIVERSITY OF WASHINGTON | SUB UWSC11075 (MH111520) | 93 | 242 | | 140,377 |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | SUB 09581001-319873 (MH103421) | 93 | 242 | | 27,707 |
| | VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY | R01MH110504 | 93 | 242 | | 178,786 |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | SUB WU-17-128 (MH111520) | 93 | 242 | | 38,491 |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | SUB WU-19-35 (MH118031) | 93 | 242 | | 14,356 |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | WU-18-454 | 93 | 242 | | 750,021 |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | WU-19-16 | 93 | 242 | | 136,691 |
| | WAYNE STATE UNIVERSITY | WSU16124 | 93 | 242 | | 11,129 |
| | WEST VIRGINIA UNIVERSITY | 14716 | 93 | 242 | | 7,673 |
| | YALE UNIVERSITY | 1P50MH106934-01 | 93 | 242 | | 61,917 |
| | YALE UNIVERSITY | GR100246(CON-80000778):4 | 93 | 242 | | 289,780 |
| | YALE UNIVERSITY | GR100254(CON-80000783):2 | 93 | 242 | | 317,315 |
| | YALE UNIVERSITY | M15A12179 (A10304) | 93 | 242 | | 114,996 |
| | YALE UNIVERSITY | 80449 | 93 | 242 | | 8,910 |
| | YALE UNIVERSITY | B3771 | 93 | 242 | | -55 |
| | YALE UNIVERSITY | GR100799(CON-80000866) | 93 | 242 | | 635,197 |
| | YALE UNIVERSITY | GR100801 (CON-80000867) | 93 | 242 | | 41,515 |
| | HELUNA HEALTH | R01MH109320 | 93 | 242 | | 32,965 |
| | KAISER PERMANENTE CENTER FOR HEALTH RESEARCH | R01MH106510 | 93 | 242 | | 3,271 |

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|---|---|--|----------------|-----------|----------------------|------------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | KAISER PERMANENTE WASHINGTON HEALTH RESEARCH INSTITUTE | SUB 2017126572 (MH106510) | 93 | 242 | 1,481 | | |
| | KAISER PERMANENTE WASHINGTON HEALTH RESEARCH INSTITUTE | SUB MH92201-07-UCSD(MH092201) | 93 | 242 | 6,879 | | |
| | UNIVERSITY OF MISSOURI - ST. LOUIS | 00056433-2 | 93 | 242 | 177,885 | | |
| | VIRTUALLY BETTER, INC. | 20191615 | 93 | 242 | 60,515 | | |
| | VIRTUALLY BETTER, INC. | 77787 | 93 | 242 | 52,228 | | |
| | THE HEKTOEN INSTITUTE OF MEDICINE | 50081-R01-UCLA01 | 93 | 242 | 17,438 | | |
| | THE HEKTOEN INSTITUTE OF MEDICINE | 50081-R01-UCSF01 | 93 | 242 | 9,370 | | |
| | ALLEN INSTITUTE | SUB 20170566 (MH114827) | 93 | 242 | 475,856 | | |
| | CHILD MIND INSTITUTE INC | 1R01MH115363 SUBN3 | 93 | 242 | 20,552 | | |
| | CHILD MIND INSTITUTE INC | 7R01MH105506 SUBN3 | 93 | 242 | 14,790 | | |
| | EASTERN VIRGINIA MEDICAL SCHOOL | 5R01MH107333 | 93 | 242 | 571,659 | | |
| | EMMA PENDELTON BRADLEY HOSPITAL | 712-7522 | 93 | 242 | 7,249 | | |
| | ORYGEN YOUTH HEALTH RESEARCH CENTRE | A132507 | 93 | 242 | 20,369 | | |
| | ORYGEN YOUTH HEALTH RESEARCH CENTRE | U01MH105258 | 93 | 242 | 130,611 | | |
| | SCICRUNCH | SUB 20182150 (MH119094) | 93 | 242 | 39,772 | | |
| | TRANSLUCENCE BIOSYSTEMS LLC | TB-5553950-CYC1 | 93 | 242 | 588 | | |
| | UNIVERSITY OF NAIROBI | UON-UCSF 1U01MH115512-01 | 93 | 242 | 280,261 | | |
| | UNIVERSITY OF NEBRASKA MEDICAL CENTER | 8719E | 93 | 242 | -52 | | |
| | | | | | | 17,509,331 | |
| | | Passthrough/Partial Passthrough | | | | | |
| | | RAND CORP | 9920170049-01 | 93 | 243 | 90,899 | |
| | | SANTA BARBARA, COUNTY OF | BC18-121 | 93 | 243 | 7,569 | |
| | | HUNTER COLLEGE | 41973-00-02 | 93 | 243 | 61,165 | |
| | | AMERICAN PSYCHIATRIC ASSOCIATION | H79SM080818-01 | 93 | 243 | 181,891 | |
| | | PACIFIC BEHAVIORAL HEALTH COLLABORATING COUNCIL | 2018-002 | 93 | 243 | 42,102 | |
| | | SKID ROW HOUSING TRUST | 90-118 | 93 | 243 | 1,092 | |
| | | | | | | 384,719 | |
| | | Passthrough/Partial Passthrough | | | | | |
| | | CPWR - THE CENTER FOR CONSTRUCTION RESEARCH AND TRAINING | 3001-613-01 | 93 | 262 | 221,614 | |
| | | CPWR - THE CENTER FOR CONSTRUCTION RESEARCH AND TRAINING | 88664 | 93 | 262 | -30 | |
| | | STANFORD UNIVERSITY | 61405844-48844 | 93 | 262 | 80,946 | |
| | | UNIVERSITY OF WISCONSIN-MADISON | 707K545 | 93 | 262 | 85,674 | |
| | | | | | 388,204 | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | B1548 | 93 | 268 | 76,393 | | |
| | | | | | 76,393 | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | BROWN UNIVERSITY | 00001122 | 93 | 273 | 38,696 | | |
| | CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY | SA0000659 | 93 | 273 | 11,130 | | |
| | CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY | SUB SA0000641(AA026994) | 93 | 273 | 59,651 | | |
| | CASE WESTERN RESERVE UNIVERSITY | 922-SUB-CYC1 | 93 | 273 | 8,806 | | |
| | CEDARS-SINAI MEDICAL CENTER | SUB 0001493560 (AA027036) | 93 | 273 | 36,266 | | |
| | CHILDREN'S HOSPITAL LOS ANGELES | RGF010036-B1:1 | 93 | 273 | 42,197 | | |
| | CLEVELAND CLINIC FOUNDATION | SUB 733-SUB(NS100610) | 93 | 273 | 29,084 | | |
| | DASCENA, INC. | A132427 | 93 | 273 | 1,662 | | |
| | FLORIDA STATE UNIVERSITY | SUB R01979 (AA022891) | 93 | 273 | 28,688 | | |
| | KAISER PERMANENTE DIVISION OF RESEARCH | RNG209393-UCSF-03 | 93 | 273 | 89,869 | | |
| | OREGON HEALTH & SCIENCE UNIVERSITY | 1007778_UCSF | 93 | 273 | 44,570 | | |
| | PUBLIC HEALTH INSTITUTE | 1020572 | 93 | 273 | 23,884 | | |
| | RAND CORP | 9920170096 | 93 | 273 | 122,564 | | |
| | RAND CORP | 9920130157-05 | 93 | 273 | 70,142 | | |
| | SRI INTERNATIONAL | SUB PO17058 (AA021697) | 93 | 273 | 54,775 | | |
| | SUNY DOWNSTATE MEDICAL CENTER | SUB 1009189 (AA008401) | 93 | 273 | 498,001 | | |
| | THE SCRIPPS RESEARCH INSTITUTE | 5-53745 | 93 | 273 | 1,650 | | |
| | THE UNIVERSITY OF ALABAMA AT BIRMINGHAM | SUB 000512064-003 (AA020802) | 93 | 273 | 134,427 | | |
| | UNIVERSITY OF CAPE TOWN | 20145278 | 93 | 273 | 15,753 | | |
| | UNIVERSITY OF COLORADO DENVER | FY19.580.004 | 93 | 273 | 32,729 | | |
| | UNIVERSITY OF MINNESOTA | H004915501/R21AA0245 | 93 | 273 | 12,619 | | |
| | UNIVERSITY OF MISSOURI - KANSAS CITY | 21C04 | 93 | 273 | 32,960 | | |
| | UNIVERSITY OF NEW MEXICO | 80397 | 93 | 273 | 3,283 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | SUB 48143238 (AA011999) | 93 | 273 | 123,005 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | SUB 93814100 (AA18663) | 93 | 273 | 29,676 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | SUB 98579671 (AA011999) | 93 | 273 | 27,807 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | SUB 98581287 (AA011999) | 93 | 273 | 20,174 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 58445116-4 | 93 | 273 | 34,274 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 8735F | 93 | 273 | -1,345 | | |

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|---|--|--|----------------|-----------|----------------------|------------------------------------|---------|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | UNIVERSITY OF SOUTHERN CALIFORNIA | 89102 | 93 | 273 | 970 | | |
| | UNIVERSITY OF TEXAS-AUSTIN | B0089 | 93 | 273 | 434 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA HO 310664 (AA021908) | 93 | 273 | 336 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA MANDYAM (DA034140) | 93 | 273 | 760 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 877A4 | 93 | 273 | 89,430 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA MANDYAM (AA020098) | 93 | 273 | 37,218 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA SCHNABL (AA021908) | 93 | 273 | 1,723 | | |
| | CHILDREN'S NATIONAL HEALTH SYSTEM | SUB 30004155-01 (AA026106) | 93 | 273 | 43,770 | | |
| | SOUTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION | 77381 | 93 | 273 | 43,684 | | |
| | | | | | | 1,845,321 | |
| | Passthrough/Partial Passthrough | | | | | | |
| | AMERICAN ACADEMY OF CHILD & ADOLESCENT PSYCHIATRY | 20165007:2 | 93 | 276 | 168,989 | | 168,989 |
| | Passthrough/Partial Passthrough | | | | | | |
| | AMERICAN ACADEMY OF CHILD & ADOLESCENT PSYCHIATRY | SUB 20163988 (DA000357) | 93 | 279 | 189,486 | | |
| | AMERICAN ACADEMY OF CHILD & ADOLESCENT PSYCHIATRY | 20164307:2 | 93 | 279 | 119,369 | | |
| | BAYLOR COLLEGE OF MEDICINE | 872CC | 93 | 279 | -499 | | |
| | BOSTON MEDICAL CENTER CORPORATION | SUB 617070535601(DA045547) | 93 | 279 | 35,994 | | |
| | BOSTON UNIVERSITY | 4500001814 | 93 | 279 | 86,759 | | |
| | CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY | 88679 | 93 | 279 | -11,806 | | |
| | CHILDREN'S HOSPITAL LOS ANGELES | RGF009209-A5:5 | 93 | 279 | 890,268 | | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | SUB 8902890618 (HD000850) | 93 | 279 | 14,263 | | |
| | COLUMBIA UNIVERSITY | 1 (GG011510) | 93 | 279 | 158,736 | | |
| COLUMBIA UNIVERSITY | 85A11 | 93 | 279 | -4,010 | | | |
| DARTMOUTH COLLEGE | R1049 | 93 | 279 | 116,484 | | | |
| DARTMOUTH COLLEGE | R1057 | 93 | 279 | 80,339 | | | |
| DUKE UNIVERSITY | SUB 2036646 (DA044571) | 93 | 279 | 15,016 | | | |
| DUKE UNIVERSITY | SUB A039115(HHSN2752010000031) | 93 | 279 | 57,016 | | | |
| FRED HUTCHINSON CANCER RESEARCH CENTER | 0000923080 | 93 | 279 | 257,670 | | | |
| JOHNS HOPKINS UNIVERSITY | 2003204584:6 | 93 | 279 | 52,187 | | | |
| MEDICAL UNIVERSITY OF SOUTH CAROLINA | SUB MUSC18-041-8D268 (DA044438) | 93 | 279 | 187,284 | | | |
| MEDICAL UNIVERSITY OF SOUTH CAROLINA | SUB MUSC19-010-8D703 (DA045300) | 93 | 279 | 32,288 | | | |
| MENTOR ON THE GO, LLC | SUB 20172340 (DA044905) | 93 | 279 | 2,953 | | | |
| MICHIGAN STATE UNIVERSITY | RC100146UCSB | 93 | 279 | 14,146 | | | |
| NEW YORK UNIVERSITY | 15-A0-S1-003671-01:4 | 93 | 279 | 16,218 | | | |
| NEW YORK UNIVERSITY | 58854 | 93 | 279 | 97,013 | | | |
| NORTHWESTERN UNIVERSITY | 60044679 UCLA:A01 | 93 | 279 | 26,515 | | | |
| OREGON HEALTH & SCIENCE UNIVERSITY | 1003544 UCI-CYC7 | 93 | 279 | 129,416 | | | |
| OREGON HEALTH & SCIENCE UNIVERSITY | SUB 1012971_UCSD(DA046077) | 93 | 279 | 68,093 | | | |
| RAND CORP | SUB 9920170060 (R21DA044073) | 93 | 279 | 26,491 | | | |
| RTI INTERNATIONAL | 1R01DA038632-01 | 93 | 279 | 51,982 | | | |
| RTI INTERNATIONAL | 2-312-0216573-65365L | 93 | 279 | 18,445 | | | |
| RTI INTERNATIONAL | 5-312-0216621-65427L | 93 | 279 | 12,532 | | | |
| SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE | SUB 59842-12858-UCSD (DA041731) | 93 | 279 | 388,331 | | | |
| STANFORD UNIVERSITY | 62097886-26345 | 93 | 279 | 15,588 | | | |
| STOCHASTECH CORPORATION | SUB 20170731 (R44DA041760) | 93 | 279 | 50,511 | | | |
| THE SCRIPPS RESEARCH INSTITUTE | SUB 5-52673 (DA041750) | 93 | 279 | 58,895 | | | |
| THE SCRIPPS RESEARCH INSTITUTE | SUB 5-52953 (DA043268) | 93 | 279 | 58,478 | | | |
| THE SCRIPPS RESEARCH INSTITUTE | SUB 5-53163(DA043799) | 93 | 279 | 110,640 | | | |
| THE SCRIPPS RESEARCH INSTITUTE | 8728G | 93 | 279 | -262 | | | |
| THE SCRIPPS RESEARCH INSTITUTE | SUB 5-53579 (DA04451) | 93 | 279 | 135,236 | | | |
| UNIVERSITY OF CHICAGO | FP066079-01-PR-CYC2 | 93 | 279 | 154,851 | | | |
| UNIVERSITY OF CHICAGO | FP059270-05 A | 93 | 279 | 35,435 | | | |
| UNIVERSITY OF COLORADO DENVER | SUB NONE (DA035804) | 93 | 279 | 291,966 | | | |
| UNIVERSITY OF GEORGIA | RR376-428/4945336:5 | 93 | 279 | 14,984 | | | |
| UNIVERSITY OF KANSAS/KU CENTER FOR RESEARCH, INC. | 1R01DA03579-01A1 | 93 | 279 | 9,047 | | | |
| UNIVERSITY OF KENTUCKY/UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION | 3210000183-17-138 | 93 | 279 | 14,254 | | | |
| UNIVERSITY OF MICHIGAN | SUB 3004429839 (U01DA043098) | 93 | 279 | 165,034 | | | |
| UNIVERSITY OF MINNESOTA | B4233 | 93 | 279 | -50 | | | |
| UNIVERSITY OF NEBRASKA | SUB 24-0524-0054-005 (DA037117) | 93 | 279 | 13,051 | | | |
| UNIVERSITY OF NEVADA, RENO | SUB UNR-16-07(DA038185) | 93 | 279 | 42,848 | | | |
| UNIVERSITY OF NEW MEXICO | 2R01DA016017-12 | 93 | 279 | 941,128 | | | |
| UNIVERSITY OF PENNSYLVANIA | 80780 | 93 | 279 | -185 | | | |
| UNIVERSITY OF PITTSBURGH | 0046202-CYC3 | 93 | 279 | 57,553 | | | |
| UNIVERSITY OF SOUTHERN CALIFORNIA | 87935113 | 93 | 279 | 104,727 | | | |
| UNIVERSITY OF TEXAS-SOUTHWESTERN MEDICAL CENTER AT DALLAS | GMO160819:4 | 93 | 279 | 734,912 | | | |
| UNIVERSITY OF UTAH | SUB 10045277-02(DA043775) | 93 | 279 | 8,287 | | | |
| UNIVERSITY OF WASHINGTON | UWSC8956 | 93 | 279 | 150 | | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---|--|--|------------------------------|-----------|----------------------|---------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | UNIVERSITY OF WASHINGTON | UWSC10591-CYC1 | 93 | 279 | 18,072 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA MANDYAM (DA034140) | 93 | 279 | 3,306 | | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | WU-18-234-MOD-1 | 93 | 279 | 96,567 | | |
| | FORDHAM UNIVERSITY | FORD0035 (R25 DA031608) | 93 | 279 | 9,212 | | |
| | FORDHAM UNIVERSITY | FORD0036 (R25 DA031608) | 93 | 279 | 11,838 | | |
| | FORDHAM UNIVERSITY | FORD0037 | 93 | 279 | 17,545 | | |
| | FORDHAM UNIVERSITY | FORD0042 (DA031608) | 93 | 279 | 8,183 | | |
| | HELUNA HEALTH | 0391.0101 | 93 | 279 | 138,939 | | |
| | HELUNA HEALTH | A133064 | 93 | 279 | 5,961 | | |
| | HUNTER COLLEGE | 41996-A | 93 | 279 | 68,527 | | |
| | ANTEANA THERAPEUTICS, INC. | ATI-202776-CYC2 | 93 | 279 | -21,948 | | |
| | NEW YORK UNIVERSITY SCHOOL OF MEDICINE | 28C30 | 93 | 279 | 43,455 | | |
| | NEW YORK UNIVERSITY SCHOOL OF MEDICINE | R01DA039962 | 93 | 279 | 37,641 | | |
| | SAN FRANCISCO PUBLIC HEALTH FOUNDATION | A132156 | 93 | 279 | 41,368 | | |
| | | | | | 6,624,723 | | |
| | | Passthrough/Partial Passthrough | | | | | |
| | | AMERICAN THROMBOSIS AND HEMOSTASIS NETWORK | SUB ATHN2015-ATHN1 EXTENSION | 93 | 283 | 2,336 | |
| | | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 16-10942 | 93 | 283 | 8 | |
| | | HARVARD PILGRIM HEALTH CARE | HPHC-205795-CYC3 | 93 | 283 | 166,270 | |
| | | | | | | 168,614 | |
| | | Passthrough/Partial Passthrough | | | | | |
| | | COLUMBIA UNIVERSITY | 1(GG010793-03):1 | 93 | 286 | -4,207 | |
| | | CORNELL UNIVERSITY | 170754 | 93 | 286 | -1,571 | |
| | | EMORY UNIVERSITY | T494666 | 93 | 286 | 186,103 | |
| | | GE GLOBAL RESEARCH | 401115242 | 93 | 286 | 78,154 | |
| | | INDIANA UNIVERSITY | SUB BL-4629710(EB023685) | 93 | 286 | 49,712 | |
| | | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B620867 | 93 | 286 | -13,383 | |
| | | MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH | UNI-232985-01 | 93 | 286 | 604,248 | |
| | NORTHEASTERN UNIVERSITY | 79811 | 93 | 286 | 2,611 | | |
| | NORTHWESTERN UNIVERSITY | SUB SP0030422-PROJ0008084 (EBO | 93 | 286 | 61,871 | | |
| | NORTHWESTERN UNIVERSITY | SP0039982-PROJ0011251 | 93 | 286 | 22,493 | | |
| | SOFIE BIOSCIENCES, INC | A132313 | 93 | 286 | 167,838 | | |
| | STANFORD UNIVERSITY | 26590470-44290-A | 93 | 286 | -23 | | |
| | STANFORD UNIVERSITY | 60664402-113972 | 93 | 286 | 271,440 | | |
| | STANFORD UNIVERSITY | SUB 61456675-125287 (EB018302) | 93 | 286 | 98,551 | | |
| | UNIVERSITY OF ARIZONA | 345325-CYC2 | 93 | 286 | 26,360 | | |
| | UNIVERSITY OF ARIZONA | 482236-CYC1 | 93 | 286 | 19,251 | | |
| | UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL | SUB OSP2016194 (EB0119936) | 93 | 286 | 303,258 | | |
| | UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL | WA00433491/OSP2016197-CYC4 | 93 | 286 | 69,576 | | |
| | UNIVERSITY OF MEMPHIS | A124520 | 93 | 286 | 41,684 | | |
| | UNIVERSITY OF MEMPHIS | SUB NONE (EB020404) | 93 | 286 | 18,539 | | |
| | UNIVERSITY OF MEMPHIS | 20142031 | 93 | 286 | 143,556 | | |
| | UNIVERSITY OF MIAMI | 80518 | 93 | 286 | -15,202 | | |
| | UNIVERSITY OF MICHIGAN | 3003598082-CYC5 | 93 | 286 | 111,384 | | |
| | YALE UNIVERSITY | GR100859 (CON-80000939) | 93 | 286 | 4,602 | | |
| | APTITUDE MEDICAL | 1R43EB025095-01 | 93 | 286 | 53,941 | | |
| | CELSENSE, INC. | SUB 20183800(EB023761) | 93 | 286 | 101,801 | | |
| | TF INSTRUMENTS (SALINAS, CA) | A132300 | 93 | 286 | 31,182 | | |
| | | | | | 2,433,770 | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | HEALTH RESEARCH, INC. | 4925-04 | 93 | 300 | 196,540 | | |
| | | | | | 196,540 | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | ALTAMED HEALTH SERVICES CORPORATION | 5NU58DP005740-02-00 | 93 | 304 | 6,030 | | |
| | MANDELA MARKETPLACE INCORPORATED | 82818 | 93 | 304 | 5,668 | | |
| | | | | | 11,698 | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | CHARLES R. DREW UNIVERSITY OF MEDICINE AND SCIENCE | 20155050 | 93 | 307 | 1,920 | | |
| | CHARLES R. DREW UNIVERSITY OF MEDICINE AND SCIENCE | 20164501 | 93 | 307 | 19,323 | | |
| | MOREHOUSE COLLEGE | 001UCLA16:1 | 93 | 307 | 66,208 | | |
| | NORTHWESTERN UNIVERSITY | 79904 | 93 | 307 | 53,576 | | |
| | PACIFIC INSTITUTE FOR RESEARCH AND EVALUATION | SUB 0784 (MDO10292) | 93 | 307 | 17,585 | | |
| | PACIFIC INSTITUTE FOR RESEARCH AND EVALUATION | SUB 20174985(MDO11648) | 93 | 307 | 33,586 | | |
| | RAND CORP | 9920160089:02 | 93 | 307 | 47,735 | | |
| | RAND CORP | 79637 | 93 | 307 | 29,717 | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---|---|---|---------------------|-----------|----------------------|------------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | RAND CORP | 9920180006-02 | 93 | 307 | 49,099 | | |
| | SAINT BARNABAS MEDICAL CENTER | 58093 | 93 | 307 | 106,110 | | |
| | UNIVERSITY OF COLORADO DENVER | FY19.001.005-CYC1 | 93 | 307 | 83,872 | | |
| | UNIVERSITY OF PITTSBURGH | 0047269 (126836-1):2 | 93 | 307 | 62,908 | | |
| | UNIVERSITY OF PITTSBURGH | 0056157 (130212-2) | 93 | 307 | 128,693 | | |
| | AMERICAN COLLEGE OF SURGEONS | 24292GP001UCLA:1 | 93 | 307 | 82,637 | | |
| | MEHARRY MEDICAL COLLEGE | 170406MFL060 03-CYC1 | 93 | 307 | 31,029 | | |
| | NEW YORK UNIVERSITY SCHOOL OF MEDICINE | 17-AO-00-007341-01-CYC1 | 93 | 307 | 57,747 | | |
| | UNIVERSITY OF NORTH TEXAS HEALTH SCIENCE CENTER | RF00115-2018-0131 | 93 | 307 | 7,316 | | |
| | ALBERT EINSTEIN COLLEGE OF MEDICINE | SUB:31106A(MD011389) | 93 | 307 | 123,606 | | |
| | | | | | | 1,002,666 | |
| | | Passthrough/Partial Passthrough | | | | | |
| | | BROAD INSTITUTE INC. | 871CE | 93 | 310 | 2 | |
| | | CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO STATE UNIVERSITY | 1RL5MD009599-01 | 93 | 310 | 251,797 | |
| | | CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO STATE UNIVERSITY | 9S16-0015 | 93 | 310 | 585,716 | |
| | | CARNEGIE MELLON UNIVERSITY | A19-0387-001 | 93 | 310 | 42,968 | |
| | | COLUMBIA UNIVERSITY | 1(GG011868-02):1 | 93 | 310 | 38,582 | |
| | | DREXEL UNIVERSITY | 800059 | 93 | 310 | 89,649 | |
| | | DREXEL UNIVERSITY | 800060 | 93 | 310 | 171,230 | |
| | | DREXEL UNIVERSITY | 80B03 | 93 | 310 | -12,368 | |
| | | DREXEL UNIVERSITY | 88B70 | 93 | 310 | 225,719 | |
| | | GLADSTONE INSTITUTES | R2500-A | 93 | 310 | 108,440 | |
| | | HARVARD UNIVERSITY | 152443.5109636.0417 | 93 | 310 | 126,294 | |
| | INDIANA UNIVERSITY | BL-4624918-UCI-CYC1 | 93 | 310 | 29,213 | | |
| | LUDWIG INSTITUTE FOR CANCER RESEARCH | SUB 242301-05003A (DK107977) | 93 | 310 | 395,181 | | |
| | LUDWIG INSTITUTE FOR CANCER RESEARCH | SUB 242301-05003B (DK107977) | 93 | 310 | 114,228 | | |
| | MASSACHUSETTS GENERAL HOSPITAL | SUB 231406 (TR000931) | 93 | 310 | 19,488 | | |
| | MEDICAL UNIVERSITY OF SOUTH CAROLINA | MUSC16-089-8C267-CYC2 | 93 | 310 | 110,408 | | |
| | MEMORIAL HOSPITAL OF RHODE ISLAND | 5001311-MUELLER | 93 | 310 | 175,334 | | |
| | NEW YORK UNIVERSITY | 16-AO-00-006256-0 I | 93 | 310 | 32,020 | | |
| | NEW YORK UNIVERSITY | F0018-05-CYC1 | 93 | 310 | 583,446 | | |
| | NEW YORK UNIVERSITY | 16-AO-00-006256-01 | 93 | 310 | 173,567 | | |
| | RESEARCH FOUNDATION FOR STATE UNIVERSITY OF NEW YORK, THE | SUB R1112800(CA221244) | 93 | 310 | 86,913 | | |
| | RESEARCH FOUNDATION FOR STATE UNIVERSITY OF NEW YORK, THE | U01CA221244 | 93 | 310 | 28,734 | | |
| | SALK INSTITUTE FOR BIOLOGICAL STUDIES | SUB NONE (EB021247) | 93 | 310 | 224,053 | | |
| | STANFORD UNIVERSITY | 60392112-109837-A:5 | 93 | 310 | -20 | | |
| | THE SCRIPPS RESEARCH INSTITUTE | SUB 5-53190 (OD023176) | 93 | 310 | 85,525 | | |
| | UNIVERSITY OF CONNECTICUT | UCHC7-61884479-CYC2 | 93 | 310 | 28,899 | | |
| | UNIVERSITY OF ILLINOIS | 084337-16048 | 93 | 310 | 271,875 | | |
| | UNIVERSITY OF ILLINOIS | 093670-17188 | 93 | 310 | 1,262,054 | | |
| | UNIVERSITY OF ILLINOIS AT CHICAGO | D3123 | 93 | 310 | 40,696 | | |
| | UNIVERSITY OF IOWA | SUB W001049133 (AG055133) | 93 | 310 | 18,661 | | |
| | UNIVERSITY OF IOWA | U01AG055133 | 93 | 310 | 30,865 | | |
| | UNIVERSITY OF MARYLAND | OD025459 | 93 | 310 | 74,315 | | |
| | UNIVERSITY OF MASSACHUSETTS AMHERST | WA00363865/OSP2016101 | 93 | 310 | 75,585 | | |
| | UNIVERSITY OF NEW MEXICO | 3RBL1 | 93 | 310 | 213,511 | | |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5108560 | 93 | 310 | 896,670 | | |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5110779 | 93 | 310 | 55,000 | | |
| | UNIVERSITY OF NORTH CAROLINA SYSTEM | 5110778 | 93 | 310 | 10,000 | | |
| | UNIVERSITY OF ROCHESTER | 416985-G/UR FAO GR510571-CYC2 | 93 | 310 | 298,962 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 68588929 | 93 | 310 | 61,313 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 80597 | 93 | 310 | 82,214 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 8733F | 93 | 310 | 23,453 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 89820331:1 | 93 | 310 | 69,535 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | SUB 111515702 (CA229445) | 93 | 310 | 32,108 | | |
| | UNIVERSITY OF WASHINGTON | UWSC10689 | 93 | 310 | 507,322 | | |
| | UNIVERSITY OF WISCONSIN-MADISON | 708K396 | 93 | 310 | 457,487 | | |
| | YESHIVA UNIVERSITY | 311117 | 93 | 310 | 1,980 | | |
| | YESHIVA UNIVERSITY | C0650 | 93 | 310 | 13,035 | | |
| | YESHIVA UNIVERSITY | 311162 | 93 | 310 | 386,593 | | |
| | SAGE BIONETWORKS | SUB AOU2018UCSD (OD023176) | 93 | 310 | 182,291 | | |
| | UNIVERSITY OF AUCKLAND | SUB 3714493 (OD025349) | 93 | 310 | 283,809 | | |
| | WOMEN & INFANTS HOSPITAL OF RHODE ISLAND | UH3OD023313 | 93 | 310 | 197,392 | | |
| | | | | | | 9,261,744 | |
| | Passthrough/Partial Passthrough | | | | | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | U19MH113201 | 93 | 313 | 60,522 | | |
| | | | | | | 60,522 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---|--|--|---------------------------|-----------|----------------------|------------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | KENT STATE UNIVERSITY | 63514 | 93 | 361 | 254 | | |
| | MASSACHUSETTS GENERAL HOSPITAL | 233238 | 93 | 361 | 6,936 | | |
| | NEW YORK UNIVERSITY | 16-A1-00-005413-01 | 93 | 361 | 189,113 | | |
| | NEW YORK UNIVERSITY | B6831 | 93 | 361 | -4,188 | | |
| | RAND CORP | 9920170074-01 | 93 | 361 | 10,397 | | |
| | UNIVERSITY OF COLORADO DENVER | FY17.782.004 | 93 | 361 | 222,183 | | |
| | UNIVERSITY OF COLORADO DENVER | FY18.105.015 | 93 | 361 | 204,813 | | |
| | UNIVERSITY OF COLORADO DENVER | FY19.782.004 | 93 | 361 | 46,786 | | |
| | UNIVERSITY OF COLORADO DENVER | FY19.961.002 | 93 | 361 | 11,243 | | |
| | UNIVERSITY OF FLORIDA | UFDSP00011715 | 93 | 361 | 18,502 | | |
| | UNIVERSITY OF MICHIGAN | 3004518092 | 93 | 361 | 107,724 | | |
| | UNIVERSITY OF PITTSBURGH | 0050074 (128868-2):1 | 93 | 361 | 90,778 | | |
| | UNIVERSITY OF TENNESSEE | 19-1328-UCLA | 93 | 361 | 30,907 | | |
| | UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON | 0014114A | 93 | 361 | 1,269 | | |
| | UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON | 0014114B-CYC1 | 93 | 361 | 8,285 | | |
| | | | | | 1,405,123 | | |
| | Passthrough/Partial Passthrough | THE SCRIPPS RESEARCH INSTITUTE | 88923 | 93 | 371 | -187 | |
| | | | | | | -187 | |
| | Passthrough/Partial Passthrough | UNIVERSITY OF KANSAS/KU CENTER FOR RESEARCH, INC. | 29035 | 93 | 393 | 15,222 | |
| | | | | | | 15,222 | |
| | Passthrough/Partial Passthrough | BECKMAN RESEARCH INSTITUTE OF THE CITY OF HOPE | 51974.2001759.669305-CYC1 | 93 | 393 | 47,100 | |
| | | BECKMAN RESEARCH INSTITUTE OF THE CITY OF HOPE | 51974.2001759.669305 | 93 | 393 | 29,822 | |
| | | BECKMAN RESEARCH INSTITUTE OF THE CITY OF HOPE | 51974.2001759.669306 | 93 | 393 | 102,987 | |
| | | CANCER PREVENTION INSTITUTE OF CALIFORNIA | C1824 | 93 | 393 | 206 | |
| | | CASE WESTERN RESERVE UNIVERSITY | RES5511397:2 | 93 | 393 | 9,913 | |
| | | CEDARS-SINAI MEDICAL CENTER | 1291278:1 | 93 | 393 | 17,465 | |
| | | CEDARS-SINAI MEDICAL CENTER | 1454643 | 93 | 393 | 14,793 | |
| | | CEDARS-SINAI MEDICAL CENTER | 1461559:1 | 93 | 393 | 65,736 | |
| | | CHARLES R. DREW UNIVERSITY OF MEDICINE AND SCIENCE | 17-18-PW-G0075410-UCLA | 93 | 393 | 27,200 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | 321072 | 93 | 393 | 119,238 | | |
| | CHILDREN'S MERCY HOSPITAL, THE | SUB 16-0002 (CA194492) | 93 | 393 | 42,752 | | |
| | CITY OF HOPE | SUB 51974.2001759.669301 (CA19 | 93 | 393 | 1,053,192 | 28,895 | |
| | CITY OF HOPE | 51089.2000553.669301 | 93 | 393 | 196,873 | | |
| | DANA-FARBER CANCER INSTITUTE | 1286601 | 93 | 393 | 77,802 | | |
| | DANA-FARBER CANCER INSTITUTE | 1201301 | 93 | 393 | 141,980 | | |
| | DUKE UNIVERSITY | 2035765 | 93 | 393 | 48,613 | | |
| | DUKE UNIVERSITY | A030015 | 93 | 393 | 110,782 | | |
| | ECOG-ACRIN MEDICAL RESEARCH FOUNDATION INC. | ACRIN MASTER AGRMT | 93 | 393 | 78,977 | | |
| | FRED HUTCHINSON CANCER RESEARCH CENTER | R01CA183570 | 93 | 393 | -447 | | |
| | FRED HUTCHINSON CANCER RESEARCH CENTER | 0000879563 | 93 | 393 | 79 | | |
| | GEORGE WASHINGTON UNIVERSITY | 18-M65-CYC1 | 93 | 393 | 36,012 | | |
| | GEORGETOWN UNIVERSITY | R01CA207361 | 93 | 393 | 36,609 | | |
| | GEORGETOWN UNIVERSITY | GR411513 | 93 | 393 | 97,872 | | |
| | GEORGETOWN UNIVERSITY | 411842_GR411064-UCLA:7 | 93 | 393 | 16,550 | | |
| | HARVARD PILGRIM HEALTH CARE | AH000632 | 93 | 393 | 26,443 | | |
| | HARVARD UNIVERSITY | 114226-5108097 | 93 | 393 | 18,392 | | |
| | JOHNS HOPKINS UNIVERSITY | 2002945254 | 93 | 393 | 23,797 | | |
| | KAISER FOUNDATION HEALTH PLAN OF WASHINGTON | A9876 | 93 | 393 | -139 | -139 | |
| | KAISER PERMANENTE DIVISION OF RESEARCH | RNG209840-UCSF-01 | 93 | 393 | 47,898 | | |
| | MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH | USF-225625 | 93 | 393 | 193,271 | | |
| | MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH | A122238 | 93 | 393 | 32,341 | | |
| | NORTHEASTERN UNIVERSITY | 500544-78050 | 93 | 393 | 58,062 | | |
| | NORTHWESTERN UNIVERSITY | 60034672UCD | 93 | 393 | 15,086 | | |
| | NORTHWESTERN UNIVERSITY | SUB 60037274 UCSD (CA186878) | 93 | 393 | 9,878 | | |
| | NORTHWESTERN UNIVERSITY | -6004.72.62.U.C.SF | 93 | 393 | 115,611 | | |
| | NORTHWESTERN UNIVERSITY | 60037274 UCLA:A04 | 93 | 393 | 31,635 | | |
| | RADIABEAM TECHNOLOGIES, LLC | 2LRR | 93 | 393 | 37,829 | | |
| | RADIABEAM TECHNOLOGIES, LLC | DE-SC0017687 | 93 | 393 | 24,035 | | |
| | RESEARCH FOUNDATION FOR STATE UNIVERSITY OF NEW YORK, THE | 1784 | 93 | 393 | -6,285 | | |
| | ROCKEFELLER UNIVERSITY | R01CA204127 | 93 | 393 | 68,604 | | |
| | SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE | 59856-12856-UCSF | 93 | 393 | 142,912 | | |
| | SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE | SUB 60131-12957-UCSD (CA218254 | 93 | 393 | 111,153 | | |
| | STANFORD UNIVERSITY | 61959228-130956 | 93 | 393 | 33,684 | | |
| | THE UNIVERSITY OF ALABAMA AT BIRMINGHAM | 000519160-005 | 93 | 393 | 14,780 | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---|--|---|---------------------------|-----------|----------------------|---------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | THOMAS JEFFERSON UNIVERSITY | SUB 080-30000-S27901 (CA215520 | 93 | 393 | 129,304 | | |
| | UNIVERSITY OF ARIZONA | R01CA092596 | 93 | 393 | 178,441 | | |
| | UNIVERSITY OF ARIZONA | 306440:3 | 93 | 393 | 294,393 | | |
| | UNIVERSITY OF COLORADO DENVER | FY18.900.001 | 93 | 393 | 10,412 | | |
| | UNIVERSITY OF HAWAII AT MANOA | KA1363 | 93 | 393 | 84,240 | | |
| | UNIVERSITY OF HAWAII AT MANOA | KA1374 | 93 | 393 | 11,685 | | |
| | UNIVERSITY OF HAWAII AT MANOA | C1959 | 93 | 393 | -14 | | |
| | UNIVERSITY OF HAWAII AT MANOA | KA1488 | 93 | 393 | 13,270 | | |
| | UNIVERSITY OF IOWA | 1001588781 | 93 | 393 | 121,260 | | |
| | UNIVERSITY OF MELBOURNE | D4180 | 93 | 393 | 5,982 | | |
| | UNIVERSITY OF MICHIGAN | 3004171785:2 | 93 | 393 | 29,568 | | |
| | UNIVERSITY OF MICHIGAN | 3004700012-CYC1 | 93 | 393 | 30,646 | | |
| | UNIVERSITY OF MINNESOTA | P006826901 | 93 | 393 | 8,384 | | |
| | UNIVERSITY OF NEW MEXICO | 3RBS8:01 | 93 | 393 | 418 | | |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | R01CA197205 | 93 | 393 | 10,739 | | |
| | UNIVERSITY OF PENNSYLVANIA | SUB 568559 (CA202699) | 93 | 393 | 98,708 | | |
| | UNIVERSITY OF PITTSBURGH | 57665 | 93 | 393 | -12,868 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 100794433 | 93 | 393 | 75,978 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 107857258 | 93 | 393 | 195,133 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 59470 | 93 | 393 | -17,976 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | D2945 | 93 | 393 | 511 | | |
| | UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON | 3001264911 | 93 | 393 | 2,294 | | |
| | UNIVERSITY OF TEXAS-M.D. ANDERSON CANCER CENTER | 00003027 | 93 | 393 | 23,781 | | |
| | UNIVERSITY OF TEXAS-M.D. ANDERSON CANCER CENTER | 3001235049 | 93 | 393 | 2,181 | | |
| | UNIVERSITY OF TEXAS-M.D. ANDERSON CANCER CENTER | 871D1 | 93 | 393 | -3,594 | | |
| | UNIVERSITY OF UTAH | 10035205 | 93 | 393 | 88,332 | | |
| | UNIVERSITY OF VIRGINIA | 88437 | 93 | 393 | -741 | | |
| | UNIVERSITY OF WASHINGTON | UWSC10729 | 93 | 393 | 16,956 | | |
| | UNIVERSITY OF WASHINGTON | UWSC9237:2 | 93 | 393 | 9,998 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA GUPTA 321181 (CA222866) | 93 | 393 | 79,768 | | |
| | WAKE FOREST UNIVERSITY | WFUHS 114040:2 | 93 | 393 | 66,694 | | |
| | WAKE FOREST UNIVERSITY HEALTH SCIENCES | 114040 | 93 | 393 | 45,321 | | |
| | WASHINGTON STATE UNIVERSITY | 123700-G003622-CYC3 | 93 | 393 | 34,667 | | |
| | QALIBREMD, INC. | #P18230-001 | 93 | 393 | 33,822 | | |
| | | | | | 5,038,785 | 28,756 | |
| | Passthrough/Partial Passthrough | | | | | | |
| | | ACOUSTIC MEDSYSTEMS, INC. | A131852 | 93 | 394 | 159,325 | |
| | | AMERICAN COLLEGE OF RADIOLOGY | 88797 | 93 | 394 | 59,757 | |
| | | BAYLOR COLLEGE OF MEDICINE | C0623 | 93 | 394 | -6 | |
| | | BOSTON UNIVERSITY | 4500002285:002 | 93 | 394 | 230,174 | |
| | | BOSTON UNIVERSITY | 4500002515 | 93 | 394 | 182,293 | |
| | | BROWN UNIVERSITY | SUB 00001163 (CA159954) | 93 | 394 | 46,218 | |
| | | CANCER TARGETED TECHNOLOGY | A126694 | 93 | 394 | 64,663 | |
| | | CASE WESTERN RESERVE UNIVERSITY | SUB RES512506 (CA198892) | 93 | 394 | 115,128 | |
| | | CEDARS-SINAI MEDICAL CENTER | SUB 0001402018 (CA218526) | 93 | 394 | 39,112 | |
| | | CITY OF HOPE | 61244.2005803.669301 | 93 | 394 | 158,816 | |
| | | DANA-FARBER CANCER INSTITUTE | 8731E | 93 | 394 | 50 | |
| | | DANA-FARBER CANCER INSTITUTE | R01CA214912 | 93 | 394 | 5,570 | |
| | | MEMORIAL SLOAN-KETTERING CANCER CENTER | B4006 | 93 | 394 | -562 | |
| | | NRG ONCOLOGY | NRG BSB - UCSF YR 1 | 93 | 394 | 780,852 | |
| | OMNIOX INC. | A17-0353 | 93 | 394 | 198,613 | | |
| | SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE | 8787D | 93 | 394 | -732 | | |
| | STANFORD UNIVERSITY | 61676311-116575 | 93 | 394 | 13,731 | | |
| | STANFORD UNIVERSITY | R01CA227687 | 93 | 394 | 382,021 | | |
| | STANFORD UNIVERSITY | 7R01CA211602-03 | 93 | 394 | 91,944 | | |
| | STANFORD UNIVERSITY | R01CA199658 | 93 | 394 | 111,619 | | |
| | STANFORD UNIVERSITY | R01CA210553 | 93 | 394 | 116,833 | | |
| | THOMAS JEFFERSON UNIVERSITY | SUB 080-30000-S22601(CA194307) | 93 | 394 | 128,375 | | |
| | UNIVERSITY OF HAWAII AT MANOA | KA1393 | 93 | 394 | 4,496 | | |
| | UNIVERSITY OF MICHIGAN | 3003732467 | 93 | 394 | 121,289 | | |
| | UNIVERSITY OF MINNESOTA | SUB P006911701 (CA214550) | 93 | 394 | 110,035 | | |
| | UNIVERSITY OF PENNSYLVANIA | 568870 | 93 | 394 | 55,257 | | |
| | UNIVERSITY OF PITTSBURGH | 0059566 (130769-2) | 93 | 394 | 64,700 | | |
| | UNIVERSITY OF TEXAS-M.D. ANDERSON CANCER CENTER | 00003874 | 93 | 394 | 224 | | |
| | UNIVERSITY OF TEXAS-M.D. ANDERSON CANCER CENTER | 00005316 | 93 | 394 | 254,801 | | |
| | UNIVERSITY OF TEXAS-M.D. ANDERSON CANCER CENTER | 3001174871 | 93 | 394 | 138,560 | | |
| | UNIVERSITY OF WASHINGTON | UWSC10730 | 93 | 394 | 28,006 | | |
| | | | | | 3,661,164 | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|--|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | Passthrough/Partial Passthrough | | | | | |
| | ACCELERATED MEDICAL DIAGNOSTICS, LLC | A18-1262 | 93 | 395 | 34,544 | |
| | AMERICAN COLLEGE OF RADIOLOGY | 82594 | 93 | 395 | 2,331 | |
| | BAYLOR COLLEGE OF MEDICINE | A133068 | 93 | 395 | 4,425 | |
| | BRIGHAM AND WOMEN'S HOSPITAL | A132926 | 93 | 395 | 6,991 | |
| | BRIGHAM AND WOMEN'S HOSPITAL | UCSF #A120606 | 93 | 395 | 937 | |
| | CANCER TARGETED TECHNOLOGY | A132666 | 93 | 395 | 33,526 | |
| | CEDARS-SINAI MEDICAL CENTER | 1425551:1 | 93 | 395 | 104,099 | |
| | CEDARS-SINAI MEDICAL CENTER | U01CA232859-01 | 93 | 395 | 48,376 | |
| | CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS. | 872AC | 93 | 395 | -51,528 | |
| | CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS. | GENFD0001578733-CYC1 | 93 | 395 | 42,176 | |
| | CHILDREN'S HOSPITAL LOS ANGELES | 2004-05 | 93 | 395 | 10,632 | |
| | CHILDREN'S HOSPITAL LOS ANGELES | RGF011025-A | 93 | 395 | 453,715 | |
| | CHILDREN'S HOSPITAL LOS ANGELES | SUB PBMTTC1401 (CA181050) | 93 | 395 | 33 | |
| | CHILDREN'S HOSPITAL LOS ANGELES | 59464 | 93 | 395 | -676 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | 1U10CA180886-01 | 93 | 395 | 47,861 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | 1UG1CA189955-01 | 93 | 395 | 2,188 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | 201503563 | 93 | 395 | 16,949 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | 20150682 | 93 | 395 | 56,198 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | 89236 | 93 | 395 | 48,024 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | 89464 | 93 | 395 | -17 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | 9500100715 | 93 | 395 | -32,562 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | 950010071504C | 93 | 395 | 45,437 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | A121763 | 93 | 395 | 2,943 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | A128833 | 93 | 395 | 456 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | PRM:UM1CA097452 | 93 | 395 | 7,590 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | SUB UG1CA189955 | 93 | 395 | 60,468 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | UCSF#A124469 | 93 | 395 | 15,938 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | UCSF#A124960 | 93 | 395 | 21,336 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | SUB FP:FP00021561_SUB36_01 (CA | 93 | 395 | 626 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | U10CA180886 | 93 | 395 | 34,341 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | 201504232 | 93 | 395 | 2,325 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | FP15221_SUB882_01 | 93 | 395 | 9,883 | |
| | CITY OF HOPE | 51183.2000123.669399 | 93 | 395 | 224,502 | |
| | CITY OF HOPE | 52284.2002184.669302 | 93 | 395 | 232,413 | |
| | COLUMBIA UNIVERSITY | 89131 | 93 | 395 | 724 | |
| | CORNELL UNIVERSITY | 76088-10742 | 93 | 395 | 69,992 | |
| | ECOG-ACRIN MEDICAL RESEARCH FOUNDATION INC. | 5UG1CA189828-05-UC11-CYC1 | 93 | 395 | 14,084 | |
| | FRED HUTCHINSON CANCER RESEARCH CENTER | SUB 000821830 (CA154967) | 93 | 395 | 4,596 | |
| | FRED HUTCHINSON CANCER RESEARCH CENTER | 79614 | 93 | 395 | -4,596 | |
| | FRED HUTCHINSON CANCER RESEARCH CENTER | CITN-09 | 93 | 395 | 7,568 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 8739D | 93 | 395 | -2,581 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 874B2 | 93 | 395 | -43 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | SUB 0255-3141-4609 (CA207446) | 93 | 395 | 15,223 | |
| | INTEGRATED SENSORS, LLC | A16-0372-002 | 93 | 395 | 71,650 | |
| | JOHN WAYNE INSTITUTE FOR CANCER TREATMENT AND RESEARCH | FARIES-15-10 | 93 | 395 | 114,869 | |
| | JOHNS HOPKINS UNIVERSITY | ABTC 1301 | 93 | 395 | 10,339 | |
| | JOHNS HOPKINS UNIVERSITY | 2002439042 | 93 | 395 | 31,747 | |
| | JOHNS HOPKINS UNIVERSITY | 2002439000:3 | 93 | 395 | 22,495 | |
| | JOHNS HOPKINS UNIVERSITY | 2003965667 | 93 | 395 | 19,375 | |
| | JOHNS HOPKINS UNIVERSITY | 59895 | 93 | 395 | 770 | |
| | JOHNS HOPKINS UNIVERSITY | 80180 | 93 | 395 | -2,230 | |
| | JOHNS HOPKINS UNIVERSITY | ABTC1403:1 | 93 | 395 | 770 | |
| | LEIDOS, INC. | SUB 13XS025 (HHSN261200800001E | 93 | 395 | 61,987 | |
| | MASSACHUSETTS GENERAL HOSPITAL | 226035 | 93 | 395 | 16,673 | |
| | MASSACHUSETTS GENERAL HOSPITAL | 88218 | 93 | 395 | -9,080 | |
| | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | 89402 | 93 | 395 | 18,691 | |
| | MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH | SUB SAD-149321 (CA189823) | 93 | 395 | -5,443 | |
| | MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH | SAF-194321/PO#66291556 | 93 | 395 | 198,864 | |
| | MEDICAL COLLEGE OF WISCONSIN | R01CA184798 | 93 | 395 | 12,106 | |
| | MEMORIAL SLOAN-KETTERING CANCER CENTER | 229411-CYC4 | 93 | 395 | 21,366 | |
| | NEW YORK UNIVERSITY | F7618-02:04 | 93 | 395 | 194,510 | |
| | NRG ONCOLOGY | BIQSF YR1-UCSF | 93 | 395 | 7,812 | |
| | NRG ONCOLOGY | NRG-201385-CYC1 | 93 | 395 | 66,453 | |
| | NRG ONCOLOGY | BN003-UCSF-JORDAN | 93 | 395 | 3,407 | |
| | NRG ONCOLOGY | GOG0237-UCI-02-CYC2 | 93 | 395 | 83,119 | |
| | NRG ONCOLOGY | E5103 | 93 | 395 | 186,715 | 94,950 |
| | NRG ONCOLOGY | NCTN05-FENG | 93 | 395 | 15,000 | |
| | NRG ONCOLOGY | NCTN05-SIMKO | 93 | 395 | 5,293 | |
| | NRG ONCOLOGY | SUB NCTN05-MAYADEV (CA180868) | 93 | 395 | 14,109 | |

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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|---|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | NRG ONCOLOGY | TEWARI - YR. 4-CYC2 | 93 | 395 | 4,198 | |
| | NRG ONCOLOGY | UCAI-YR. 1-CYC5 | 93 | 395 | 4,323 | |
| | NRG ONCOLOGY | UCLA - YR. 1.GANZ-YR5 | 93 | 395 | 5,434 | |
| | NSABP FOUNDATION, INC. | TFED41-137 | 93 | 395 | 888 | |
| | OREGON HEALTH & SCIENCE UNIVERSITY | 1004086001UCDAVIS | 93 | 395 | 17,102 | |
| | OREGON HEALTH & SCIENCE UNIVERSITY | 21B21 | 93 | 395 | 63,072 | |
| | OREGON HEALTH & SCIENCE UNIVERSITY | SUB 9009627 UCSD (CA180888) | 93 | 395 | 126,586 | |
| | OREGON HEALTH & SCIENCE UNIVERSITY | 9009627 | 93 | 395 | 10,562 | |
| | OREGON HEALTH & SCIENCE UNIVERSITY | 9009627_UCDAVIS_MACK | 93 | 395 | 14,453 | |
| | OREGON HEALTH & SCIENCE UNIVERSITY | 1005019_UCIRVINE-CYC4 | 93 | 395 | 30,705 | |
| | OREGON HEALTH & SCIENCE UNIVERSITY | 34B25 | 93 | 395 | 70,403 | |
| | OREGON HEALTH & SCIENCE UNIVERSITY | 9009627_UCIRVINE-CYC4 | 93 | 395 | 95,889 | |
| | OREGON HEALTH & SCIENCE UNIVERSITY | 9009627_UCLA-4 | 93 | 395 | 27,045 | |
| | OREGON HEALTH & SCIENCE UNIVERSITY | SWOG-201304-1-CYC5 | 93 | 395 | 22,258 | |
| | OREGON HEALTH & SCIENCE UNIVERSITY | SWOG-201304-CYC4 | 93 | 395 | 130,335 | |
| | PANDOMEDX | A18-2619 | 93 | 395 | 78,416 | |
| | SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE | SUB 59953-12989 (CA128814) | 93 | 395 | 177,970 | |
| | SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE | SUB 59510-12770-UCSD (CA198103) | 93 | 395 | 160,164 | |
| | SIGNALRX PHARMACEUTICALS, INC | SUB 20170710 (CA192656) | 93 | 395 | 320,504 | |
| | SIGNALRX PHARMACEUTICALS, INC | 875D2 | 93 | 395 | -1,938 | |
| | SRI INTERNATIONAL | R01CA214515 | 93 | 395 | 77,296 | |
| | ST. JUDE CHILDREN'S RESEARCH HOSPITAL | 111287230-7744212 | 93 | 395 | 73,041 | |
| | STANFORD UNIVERSITY | 61251710-118307 | 93 | 395 | 177,643 | |
| | STANFORD UNIVERSITY | 61251750-118307 | 93 | 395 | 43,789 | |
| | STANFORD UNIVERSITY | 61658251-117899 | 93 | 395 | 37,918 | |
| | STANFORD UNIVERSITY | 60958489-117119:3 | 93 | 395 | 21,571 | |
| | SWOG | 20154355 | 93 | 395 | -11,112 | |
| | SWOG | 20161228 | 93 | 395 | 8,660 | |
| | THE UNIVERSITY OF ALABAMA (TUSCALOOSA) | SUB 000515449 (CA189823) | 93 | 395 | -3,460 | |
| | UNIVERSITY OF ARKANSAS, FAYETTEVILLE | 51758 | 93 | 395 | -16,509 | |
| | UNIVERSITY OF FLORIDA | UFDSP00011465 | 93 | 395 | 53,484 | |
| | UNIVERSITY OF MINNESOTA | N005494302 | 93 | 395 | 74,367 | |
| | UNIVERSITY OF MINNESOTA | SUB H005023201 (CA203348) | 93 | 395 | 235,949 | |
| | UNIVERSITY OF NEVADA, LAS VEGAS/UNLV RESEARCH FOUNDATION | 17-22AY-01-CYC2 | 93 | 395 | 250,649 | |
| | UNIVERSITY OF PENNSYLVANIA | SUB 3201460819-XX(CA233285) | 93 | 395 | 199,933 | |
| | UNIVERSITY OF PITTSBURGH | 5R01CA178766-03 | 93 | 395 | -511 | |
| | UNIVERSITY OF PITTSBURGH | 0048529(127109-1) | 93 | 395 | 8,594 | |
| | UNIVERSITY OF PITTSBURGH | 0049527(127522-1) | 93 | 395 | 183,526 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 86620293:2 | 93 | 395 | 33,675 | |
| | UNIVERSITY OF TEXAS-SOUTHWESTERN MEDICAL CENTER AT DALLAS | A18-0911-001 | 93 | 395 | 271,876 | |
| | UNIVERSITY OF VIRGINIA | GB10562.159043 | 93 | 395 | 292,843 | |
| | VALITOR, INC. | A132199 | 93 | 395 | 37,238 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA CALIFANO(CA204264) | 93 | 395 | 9,933 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA GUPTA (CA222866) | 93 | 395 | 59,948 | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | WU-19-267 | 93 | 395 | 68,537 | |
| | YALE UNIVERSITY | GR103017(CON-80001259) | 93 | 395 | 17,506 | |
| | YALE UNIVERSITY | SUB M16A12480 (CA186689) | 93 | 395 | 26,129 | |
| | CURESEARCH FOR CHILDREN'S CANCER | 78513 | 93 | 395 | -26,240 | |
| | IMMUNGENE, INC. | 79007 | 93 | 395 | 4 | |
| | WINSANTOR INC | 877AG | 93 | 395 | -4,156 | |
| | WINSANTOR INC | SUB 20183497(CA213555) | 93 | 395 | 140,399 | |
| | VIVREON BIOSCIENCES, LLC | VB-211574-CYC1 | 93 | 395 | 51,980 | |
| | ALLIANCE FOR CLINICAL TRIALS IN ONCOLOGY | A011502 | 93 | 395 | 101 | |
| | BIOMIMETIX JV, LLC | BMX-HGG-001 | 93 | 395 | 1,226 | |
| | GLYTR THERAPEUTICS, INC. | GTI-211094-CYC1 | 93 | 395 | 39,947 | |
| | ICF INTERNATIONAL, INC. | SUB 17RWSK0005(NIH) | 93 | 395 | 39,503 | |
| | THE EMMES COMPANY, LLC | 89538 | 93 | 395 | -35,994 | |
| | THE EMMES COMPANY, LLC | A7530 | 93 | 395 | 1,536 | |
| | | | | | 6,552,003 | 94,950 |
| | Passthrough/Partial Passthrough | | | | | |
| | BAYLOR RESEARCH INSTITUTE | 41010301401-CYC6 | 93 | 396 | 10,462 | |
| | BRIGHAM AND WOMEN'S HOSPITAL | 118360 | 93 | 396 | 288,987 | |
| | CASE WESTERN RESERVE UNIVERSITY | SUB RES509813 (CA198941) | 93 | 396 | -21,224 | |
| | CEDARS-SINAI MEDICAL CENTER | 1441201 | 93 | 396 | 115,968 | |
| | CEDARS-SINAI MEDICAL CENTER | 1442747:3 | 93 | 396 | 3,010 | |
| | CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI | 137592 | 93 | 396 | 34,937 | |
| | COLUMBIA UNIVERSITY | 1(GG012799-01) | 93 | 396 | 233,227 | |
| | INSTITUTE FOR SYSTEMS BIOLOGY | 2018.0001:1 | 93 | 396 | 214,214 | |
| | JOHNS HOPKINS UNIVERSITY | SUB 2002785140 (CA177669) | 93 | 396 | 14,318 | |

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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---|--|--|---------------------------|-----------|----------------------|---------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | JOHNS HOPKINS UNIVERSITY | A17-0764-002 | 93 | 396 | 11,936 | | |
| | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | SUB 5710004012 (CA184898) | 93 | 396 | 219,781 | | |
| | NEW YORK UNIVERSITY | 16-A1-00-005762-01 | 93 | 396 | 14,716 | | |
| | PURDUE UNIVERSITY | SUB 4102-85283 (CA221289) | 93 | 396 | 120,091 | | |
| | ST. JUDE CHILDREN'S RESEARCH HOSPITAL | 111913019-7593083 | 93 | 396 | 13,943 | | |
| | STANFORD UNIVERSITY | 61643576-118326 | 93 | 396 | 178,083 | | |
| | STANFORD UNIVERSITY | 62061288-124068-CYC1 | 93 | 396 | 13,330 | | |
| | UNIVERSITY OF COLORADO DENVER | FY19.591.001 | 93 | 396 | 17,025 | | |
| | UNIVERSITY OF PENNSYLVANIA | 1P01CA165997-01A1 | 93 | 396 | 92,246 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 65232523-5 | 93 | 396 | 62,513 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 65279540-CYC5 | 93 | 396 | 13,311 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 65318381-4 | 93 | 396 | -9,790 | | |
| | UNIVERSITY OF TEXAS-M.D. ANDERSON CANCER CENTER | SUB 00001959 (CA182905) | 93 | 396 | 110,286 | | |
| | UNIVERSITY OF TEXAS-M.D. ANDERSON CANCER CENTER | 00003639 | 93 | 396 | 76,208 | | |
| | UNIVERSITY OF TEXAS-M.D. ANDERSON CANCER CENTER | SUB 00003638 (CA196403) | 93 | 396 | 84,695 | | |
| | UNIVERSITY OF WASHINGTON | 9764 (CA211310-01) | 93 | 396 | 20,209 | | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | 1R21CA223836-01 | 93 | 396 | 80,806 | | |
| | PLANET BIOTECHNOLOGY, INC. | A131625 | 93 | 396 | 51,081 | | |
| | | | | | 2,064,372 | | |
| | | Passthrough/Partial Passthrough | | | | | |
| | | CHARLES R. DREW UNIVERSITY OF MEDICINE AND SCIENCE | 16-17-JV-G007740C-UCLA:01 | 93 | 397 | 4,415 | |
| | | CHARLES R. DREW UNIVERSITY OF MEDICINE AND SCIENCE | 18-19-JV-G007740A-UCLA | 93 | 397 | 4,276 | |
| | | CORNELL UNIVERSITY | 78542-10760 | 93 | 397 | 18,233 | |
| | | DANA-FARBER CANCER INSTITUTE | 1205201 | 93 | 397 | 11,637 | |
| | | INDIANA UNIVERSITY | IN4689835UCSF | 93 | 397 | 45,600 | |
| | | INDIANA UNIVERSITY | IN4689836UCSF | 93 | 397 | 320,187 | |
| | | INDIANA UNIVERSITY | IN4689861UCSF | 93 | 397 | 20,047 | |
| | | INDIANA UNIVERSITY | IN4687579UCSF | 93 | 397 | 8,328 | |
| | | INDIANA UNIVERSITY | IN4689856UCSF | 93 | 397 | 206,181 | |
| | | INDIANA UNIVERSITY | IN4689883UCSF | 93 | 397 | 34,472 | |
| | | INSTITUTE FOR SYSTEMS BIOLOGY | 2018.0006 | 93 | 397 | 665,512 | |
| | | NORTHWESTERN UNIVERSITY | 60040958UCSF | 93 | 397 | 115,136 | |
| | NORTHWESTERN UNIVERSITY | 79188 | 93 | 397 | -16,815 | | |
| | UNIVERSITY OF CHICAGO | SUB FP069111-01 (CA233307) | 93 | 397 | 5,452 | | |
| | UNIVERSITY OF IOWA | S00446-01 | 93 | 397 | 7,200 | | |
| | UNIVERSITY OF MICHIGAN | 3004314292 | 93 | 397 | 7,078 | | |
| | UNIVERSITY OF PITTSBURGH | 0046110 (127890-1) | 93 | 397 | 140,055 | | |
| | UNIVERSITY OF PITTSBURGH | 9013520 (128999-1) | 93 | 397 | 86,554 | | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | WU-19-171 | 93 | 397 | 17,404 | | |
| | YESHIVA UNIVERSITY | 31082B | 93 | 397 | 51,466 | | |
| | NEW MEXICO STATE UNIVERSITY | U54CA132383 | 93 | 397 | 7,531 | | |
| | SYSTEMS BIOLOGY INSTITUTE | 010201 | 93 | 397 | 55,385 | | |
| | | | | | 1,815,334 | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | NRG ONCOLOGY | SUB 908798 (NCI) | 93 | 398 | 155,261 | | |
| | PURDUE UNIVERSITY | 11000418-002 | 93 | 398 | 26,894 | | |
| | UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO | 158716/158715 | 93 | 398 | 12,957 | | |
| | | | | | 195,113 | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | CALGB/CA136 | 93 | 399 | 2,916 | | |
| | MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH | 58424 | 93 | 399 | 4,967 | | |
| | | | | | 7,883 | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | UNIVERSITY OF WASHINGTON | UWSC10959 | 93 | 421 | 24,760 | | |
| | | | | | 24,760 | | |
| | Passthrough/Partial Passthrough | | | | | | |
| | ORGANIZATION OF TERATOLOGY INFORMATION SPECIALISTS | SUB NONE(20174089) | 93 | 424 | -70 | | |
| | MARCH OF DIMES FOUNDATION | SUB 20180428 (U380T000199-05-0 | 93 | 424 | 115,776 | 20,740 | |
| | | | | | 115,706 | 20,740 | |
| | Passthrough/Partial Passthrough | | | | | | |
| | REHABILITATION INSTITUTE OF CHICAGO | 7246-CYC1 | 93 | 433 | 55,587 | | |
| | UNIVERSITY OF MINNESOTA | A005198604 | 93 | 433 | 21,793 | | |
| | BRANDEIS UNIVERSITY | 403691 | 93 | 433 | 15,727 | | |
| | | | | | 93,107 | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|---|---|--|---|--|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | Passthrough/Partial Passthrough CALIFORNIA DEPARTMENT OF INSURANCE | 13038IA | 93 | 511 | 115,013 115,013 | 64,878 64,878 |
| | Passthrough/Partial Passthrough JOHNS HOPKINS UNIVERSITY | SUB 2002922541(DP005045) | 93 | 542 | 71,608 71,608 | |
| | Passthrough/Partial Passthrough ASSOCIATION OF AMERICAN MEDICAL COLLEGES ASSOCIATION OF AMERICAN MEDICAL COLLEGES CHILDREN'S NATIONAL HEALTH SYSTEM | SUB GT-32013-06 (1CLCMS331324- GT-32013-01/UCSF 80142 | 93 93 93 | 610 610 610 | -1,122 14,658 -83 13,453 | |
| | Passthrough/Partial Passthrough UNIVERSITY OF NEBRASKA | 24-0520-0249-005 | 93 | 648 | 218,378 218,378 | |
| | Passthrough/Partial Passthrough KAISER PERMANENTE DIVISION OF RESEARCH | RNG209336-01 | 93 | 687 | 99,122 99,122 | |
| | Passthrough/Partial Passthrough MEDICAL COLLEGE OF WISCONSIN THE EMMES COMPANY, LLC VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO (ARRA) VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO (ARRA) | 87423 20101609 83574 87210 | 93 93 93 93 | 701 701 701 701 | 316 5,693 -1,280 -5,701 -972 | |
| | Passthrough/Partial Passthrough ACADEMIC PEDIATRIC ASSOCIATION | 20152248 | 93 | 733 | 66,611 66,611 | |
| | Passthrough/Partial Passthrough PUBLIC HEALTH ADVOCATES | 20190083 | 93 | 738 | 27,032 27,032 | |
| | Passthrough/Partial Passthrough CALIFORNIA DEPARTMENT OF SOCIAL SERVICES | 16-2011 | 93 | 747 | 123,972 123,972 | |
| | Passthrough/Partial Passthrough CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 1410730 | 93 | 757 | 22,954 22,954 | |
| | Passthrough/Partial Passthrough CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 18-10193 | 93 | 758 | 578,996 578,996 | |
| | Passthrough/Partial Passthrough BRIGHAM AND WOMEN'S HOSPITAL | SUB NONE (HL101422) | 93 | 827 | -6,034 -6,034 | |
| | Passthrough/Partial Passthrough HELUNA HEALTH | A132813 | 93 | 834 | 146,395 146,395 | |
| | Passthrough/Partial Passthrough BAYLOR COLLEGE OF MEDICINE BETH ISRAEL DEACONESS MEDICAL CENTER BRIGHAM AND WOMEN'S HOSPITAL BRIGHAM AND WOMEN'S HOSPITAL BRIGHAM AND WOMEN'S HOSPITAL BRIGHAM AND WOMEN'S HOSPITAL BRIGHAM AND WOMEN'S HOSPITAL BRIGHAM AND WOMEN'S HOSPITAL BRIGHAM AND WOMEN'S HOSPITAL BRIGHAM AND WOMEN'S HOSPITAL BRIGHAM AND WOMEN'S HOSPITAL BRIGHAM AND WOMEN'S HOSPITAL BRIGHAM AND WOMEN'S HOSPITAL | 5601104669 79622 SUB 110009 (A1068636) SUB 112044 (HL128135) SUB 225707 (HL123336) SUB PS#107223 (HL101422) 114117 5U01HL101422 BWH-101848-CYC2 SUB 117712 (HL134811) A124946 | 93 93 93 93 93 93 93 93 93 93 93 93 93 | 837 837 837 837 837 837 837 837 837 837 837 837 837 | 4,870 2,095 17,459 -36,253 9,630 17,385 3,915 5,223 -59,339 465,787 -8,970 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|--|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | BRIGHAM AND WOMEN'S HOSPITAL | SUB 110007(AI068636) | 93 | 837 | 12,139 | |
| | BRIGHAM AND WOMEN'S HOSPITAL | SUB 114963 (HL134168) | 93 | 837 | 88,212 | |
| | BROWN UNIVERSITY | SUB 00001266 (HL135200) | 93 | 837 | 2,994 | |
| | CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY | SUB SA0000320-321-322 (HL08557) | 93 | 837 | 81,288 | |
| | CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY | SUB SA0000322 (HL085577) | 93 | 837 | 53,452 | |
| | CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO STATE UNIVERSITY | S18-0011 | 93 | 837 | 24,134 | |
| | CEDARS-SINAI MEDICAL CENTER | 0001354492:005 | 93 | 837 | 105,778 | |
| | CEDARS-SINAI MEDICAL CENTER | 0001454814 | 93 | 837 | 37,500 | |
| | CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI | 137341 | 93 | 837 | 255,906 | |
| | CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI | SUB 138275(HL131003) | 93 | 837 | 62,792 | |
| | CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI | SUB 138281 (HL131003) | 93 | 837 | 462,360 | |
| | CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI | SUB 2018 CVDC 138275 CHAIR (HL | 93 | 837 | 11,376 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | 81293 | 93 | 837 | 1,976 | |
| | COLUMBIA UNIVERSITY | 1(GG011028) | 93 | 837 | 82,651 | |
| | COLUMBIA UNIVERSITY | SUB GG10320 (HL123061) | 93 | 837 | 11,804 | |
| | COLUMBIA UNIVERSITY | 81115 | 93 | 837 | 73,683 | |
| | COLUMBIA UNIVERSITY MEDICAL CENTER | 1(GG011659) | 93 | 837 | 18,246 | |
| | CORNELL UNIVERSITY | R24HL120847 | 93 | 837 | 12,949 | |
| | DUKE UNIVERSITY | 2036055 | 93 | 837 | 522,603 | |
| | DUKE UNIVERSITY | 203-7620 | 93 | 837 | 2,302 | |
| | DUKE UNIVERSITY | SUB 2035665 (HL13753) | 93 | 837 | 75,959 | |
| | FRED HUTCHINSON CANCER RESEARCH CENTER | 87388 | 93 | 837 | -37,341 | |
| | FRED HUTCHINSON CANCER RESEARCH CENTER | SUB 0000977454 (HL122273) | 93 | 837 | 24,112 | |
| | FRED HUTCHINSON CANCER RESEARCH CENTER | SUB 214710 (HL122273) | 93 | 837 | 152,835 | |
| | GEORGIA TECH RESEARCH CORPORATION | RG884-G1 | 93 | 837 | 237,833 | |
| | GLADSTONE INSTITUTES | B8525 | 93 | 837 | 1,270 | |
| | GLADSTONE INSTITUTES | R02177-C | 93 | 837 | 42,309 | |
| | GLADSTONE INSTITUTES | R2316-A | 93 | 837 | 38,262 | |
| | INDIANA UNIVERSITY | IN468764BUCLA | 93 | 837 | 152,895 | |
| | IOWA STATE UNIVERSITY | 009896 | 93 | 837 | 36,247 | |
| | KAISER FOUNDATION HEALTH PLAN OF WASHINGTON | SUB 2018103333 (HL125440) | 93 | 837 | 23,426 | |
| | KAISER PERMANENTE DIVISION OF RESEARCH | RNG209677-01 | 93 | 837 | 175,422 | |
| | LA JOLLA INSTITUTE FOR ALLERGY AND IMMUNOLOGY | SUB 22817-44-393 (HL136275) | 93 | 837 | 326,039 | |
| | LA JOLLA INSTITUTE FOR ALLERGY AND IMMUNOLOGY | SUB 22817-50-393 (HL136275) | 93 | 837 | 161,698 | |
| | LA JOLLA INSTITUTE FOR ALLERGY AND IMMUNOLOGY | 88377 | 93 | 837 | -71,923 | |
| | LOMA LINDA UNIVERSITY (INCL NATL MEDICAL TECHNOLOGY TESTBED, INC.) | 2160056-UCLA | 93 | 837 | 123,516 | |
| | LOS ANGELES BIOMEDICAL RESEARCH INSTITUTE AT HARBOR-UCLA MEDICAL CTR | 008874 | 93 | 837 | 28,920 | |
| | LOS ANGELES BIOMEDICAL RESEARCH INSTITUTE AT HARBOR-UCLA MEDICAL CTR | 2013092430 | 93 | 837 | 66,453 | |
| | MASSACHUSETTS GENERAL HOSPITAL | B5156 | 93 | 837 | 33 | |
| | MASSACHUSETTS GENERAL HOSPITAL | U01HL23336 | 93 | 837 | 80,967 | |
| | MASSACHUSETTS GENERAL HOSPITAL | SUB 231822 (HL140224) | 93 | 837 | 662,074 | |
| | MASSACHUSETTS GENERAL HOSPITAL | 201522908:5 | 93 | 837 | 75,916 | |
| | MASSACHUSETTS GENERAL HOSPITAL | 20172788:1 | 93 | 837 | 99,322 | |
| | MASSACHUSETTS GENERAL HOSPITAL | B4449 | 93 | 837 | -541 | |
| | MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH | CSF-215432 | 93 | 837 | 6,252 | |
| | MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH | 80329 | 93 | 837 | 13,711 | |
| | MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH | SAF-243773 | 93 | 837 | 224,114 | |
| | MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH | UNI-239863/PO #65936226 | 93 | 837 | 401,158 | |
| | MEMORIAL HOSPITAL OF RHODE ISLAND | 5001191-KLEIN | 93 | 837 | 35,035 | |
| | MEMORIAL HOSPITAL OF RHODE ISLAND | 875F7 | 93 | 837 | -288 | |
| | NATIONAL BUREAU OF ECONOMIC RESEARCH, INC | 4144B.UCSF | 93 | 837 | 56,603 | |
| | NATIONAL JEWISH HEALTH | 20100604_UCSF SUB | 93 | 837 | 73,279 | |
| | NATIONAL JEWISH HEALTH | 20103403 | 93 | 837 | 99,161 | |
| | NEW ENGLAND RESEARCH INSTITUTE, INC. | 201500084 | 93 | 837 | 2,829 | |
| | NEW ENGLAND RESEARCH INSTITUTE, INC. | SUB NONE (HL107407) | 93 | 837 | 9,512 | |
| | NEW ENGLAND RESEARCH INSTITUTE, INC. | G140030-CYC1 | 93 | 837 | 834 | |
| | NEW YORK UNIVERSITY | 20131088 | 93 | 837 | 13,824 | |
| | NEW YORK UNIVERSITY | NYU-103915-CYC1 | 93 | 837 | 1,608 | |
| | NEW YORK UNIVERSITY | NYU-202588-CYC1 | 93 | 837 | 72,801 | |
| | NEW YORK UNIVERSITY | 18-A0-00-1001035-01 | 93 | 837 | 188,665 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC | KEY1774:5 | 93 | 837 | 69,894 | |
| | NORTHWESTERN UNIVERSITY | 60043010UCSF | 93 | 837 | 40,755 | |
| | NORTHWESTERN UNIVERSITY | 60036200 UCSF | 93 | 837 | 5,175 | |
| | NORTHWESTERN UNIVERSITY | SP0028071-PROJ0007326:3 | 93 | 837 | 40,545 | |
| | NORTHWESTERN UNIVERSITY | SUB 60043010 UCSD (HL130502) | 93 | 837 | 854 | |
| | OHIO STATE UNIVERSITY | 89373 | 93 | 837 | 17,668 | |
| | OHIO STATE UNIVERSITY | 59805 | 93 | 837 | -257 | |
| | OHIO STATE UNIVERSITY | 60064759 | 93 | 837 | 5,363 | |
| | OREGON HEALTH & SCIENCE UNIVERSITY | 1005364UCDAVIS | 93 | 837 | 52,078 | |
| | OREGON HEALTH & SCIENCE UNIVERSITY | SUB 1005338 UCSD (HL078610) | 93 | 837 | 7,371 | |

UNIVERSITY OF CALIFORNIA
 Schedule of Expenditures of Federal Awards
 For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|---|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | OREGON HEALTH & SCIENCE UNIVERSITY | 1010835_UCSF | 93 | 837 | -2,787 | |
| | OREGON HEALTH & SCIENCE UNIVERSITY | 1002459_UCLA:4 | 93 | 837 | 78,578 | |
| | PARTNERS HEALTHCARE SYSTEM, INC | 229172 | 93 | 837 | 134,276 | |
| | PENNSYLVANIA STATE UNIVERSITY | UCAHL098115_TO7 | 93 | 837 | -1,734 | |
| | PENNSYLVANIA STATE UNIVERSITY | UCAHL098115_TO5 | 93 | 837 | 405 | |
| | PURDUE UNIVERSITY | C1564 | 93 | 837 | 1,277 | |
| | RAND CORP | 9920180117 | 93 | 837 | 20,299 | |
| | RHODE ISLAND HOSPITAL | 57361 | 93 | 837 | -4,864 | |
| | RTI INTERNATIONAL | 15-312-0214047-52992L-CYC2 | 93 | 837 | 19,428 | |
| | SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE | SUB 60062-12921-UCSD (HL131474) | 93 | 837 | 361,711 | |
| | SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE | 60062-12920 | 93 | 837 | 394,385 | |
| | SEATTLE CHILDREN'S HOSPITAL, RESEARCH AND FOUNDATION | SUB 11639SUB (UM1HL119073) | 93 | 837 | 40,114 | |
| | SEATTLE CHILDREN'S HOSPITAL, RESEARCH AND FOUNDATION | SUB 11903SUB (HL128630) | 93 | 837 | 131,606 | |
| | STANFORD UNIVERSITY | 60594679-107635 | 93 | 837 | 54,179 | |
| | STANFORD UNIVERSITY | 61335463-121980 | 93 | 837 | 108,162 | |
| | STANFORD UNIVERSITY | R01HL128170 | 93 | 837 | 126,201 | |
| | STANFORD UNIVERSITY | SUB 60988003-118781 (HL083359) | 93 | 837 | 128,290 | |
| | STANFORD UNIVERSITY | SUB 61289425-123492 (HL132225) | 93 | 837 | 53,028 | |
| | STANFORD UNIVERSITY | SUB 61324668-122625(HL130840) | 93 | 837 | 41,091 | |
| | STANFORD UNIVERSITY | 36B10 | 93 | 837 | 277,403 | |
| | STANFORD UNIVERSITY | 61786701-132591 | 93 | 837 | 59,269 | |
| | STANFORD UNIVERSITY | SUB 61153993-121531(HL123689) | 93 | 837 | 115,849 | |
| | TEXAS TECHNICAL UNIVERSITY | C1006 | 93 | 837 | -43,915 | |
| | THE UNIVERSITY OF ALABAMA AT BIRMINGHAM | 000518828-002 | 93 | 837 | 117,347 | |
| | TOURO COLLEGE AND UNIVERSITY SYSTEM | 00007SC | 93 | 837 | 164,605 | |
| | TOURO COLLEGE AND UNIVERSITY SYSTEM | 00008SC | 93 | 837 | 18,545 | |
| | TRANSTARGET, INC. | A133080 | 93 | 837 | 18,563 | |
| | UNIVERSITY OF ARIZONA | 381130 | 93 | 837 | 249,674 | |
| | UNIVERSITY OF CHICAGO | SUB FP053857 (HL119967) | 93 | 837 | 2,783 | |
| | UNIVERSITY OF COLORADO BOULDER | SUB1554895(HL134887) | 93 | 837 | 106,096 | |
| | UNIVERSITY OF ILLINOIS AT CHICAGO | 15927 | 93 | 837 | 170,136 | |
| | UNIVERSITY OF IOWA | 1001475908 | 93 | 837 | 134,670 | |
| | UNIVERSITY OF KENTUCKY/UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION | 3200000734-17-033 | 93 | 837 | 53,321 | |
| | UNIVERSITY OF MARYLAND | 1701192 | 93 | 837 | 9,888 | |
| | UNIVERSITY OF MIAMI | 667431 | 93 | 837 | 41,120 | |
| | UNIVERSITY OF MICHIGAN | 3004402852 | 93 | 837 | 18,331 | |
| | UNIVERSITY OF MICHIGAN | 73B44 | 93 | 837 | 16,747 | |
| | UNIVERSITY OF MICHIGAN | A9957 | 93 | 837 | 194 | |
| | UNIVERSITY OF MINNESOTA | N006187402 | 93 | 837 | 9,079 | |
| | UNIVERSITY OF MINNESOTA | R01HL138539 | 93 | 837 | 267,274 | |
| | UNIVERSITY OF MINNESOTA | N006187401 | 93 | 837 | 18,883 | |
| | UNIVERSITY OF MISSISSIPPI | 79683 | 93 | 837 | 18,170 | |
| | UNIVERSITY OF NEW SOUTH WALES | RG161191-RUC02 | 93 | 837 | -8 | |
| | UNIVERSITY OF PENNSYLVANIA | 567197 | 93 | 837 | 61,759 | |
| | UNIVERSITY OF PITTSBURGH | SUB 0041597 (HL122144) | 93 | 837 | 13,199 | |
| | UNIVERSITY OF PITTSBURGH | CNVA00062106 (132385-1) | 93 | 837 | 70,527 | |
| | UNIVERSITY OF TEXAS-AUSTIN | UTA16-000560:2 | 93 | 837 | 273,689 | |
| | UNIVERSITY OF VIRGINIA | SUB GB10392 153894 (HL136098) | 93 | 837 | 15,063 | |
| | UNIVERSITY OF WASHINGTON | BPO18370 | 93 | 837 | 35,395 | |
| | UNIVERSITY OF WASHINGTON | SUB UWSC8735 (HL122199) | 93 | 837 | 125,861 | |
| | UNIVERSITY OF WASHINGTON | UWSC9050 | 93 | 837 | 46,439 | |
| | UNIVERSITY OF WASHINGTON | 10377 | 93 | 837 | 145,934 | |
| | UNIVERSITY OF WASHINGTON | 85948 | 93 | 837 | 4,259 | |
| | UNIVERSITY OF WASHINGTON | UWSC8535:2 | 93 | 837 | 144,109 | |
| | UNIVERSITY OF WISCONSIN SYSTEM | 809K373 | 93 | 837 | 23,886 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | SUB 08558-309843 (HL066941) | 93 | 837 | 9,689 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | SUB 08558-309844 (HL066941) | 93 | 837 | 3,976 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | SUB 08558-309845 (HL066941) | 93 | 837 | -15,845 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA HAMMOND (HL066941) | 93 | 837 | 32,335 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA GUATELLI (A1081668) | 93 | 837 | 86,765 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 81890 | 93 | 837 | -1,205 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 87293 | 93 | 837 | -26,322 | |
| | WAKE FOREST UNIVERSITY | WFUHS 114488:2 | 93 | 837 | 33,483 | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | WU-15-188-MOD-3 | 93 | 837 | 56,943 | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | WU-18-452 | 93 | 837 | 126,110 | |
| | YALE UNIVERSITY | SUB NONE (HL125918) | 93 | 837 | 3,161 | |
| | YALE UNIVERSITY | GK000124 (CON-80000470):3 | 93 | 837 | 40,682 | |
| | YALE UNIVERSITY | GR102535 (CON-80001209) | 93 | 837 | 32,585 | |
| | YESHIVA UNIVERSITY | 311297 | 93 | 837 | 3,362 | |
| | MCGILL UNIVERSITY | SUB PO CC417 (HL128550) | 93 | 837 | 110,428 | |

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|--|--|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | OPTIMA INTEGRATED HEALTH, INC | A130200 | 93 | 837 | 199,705 | |
| | THE HEKTOEN INSTITUTE OF MEDICINE | 50811-324-UCSF01 | 93 | 837 | 4,663 | |
| | ALBERT EINSTEIN COLLEGE OF MEDICINE | SUB 311257(HL140976) | 93 | 837 | 107,081 | |
| | HEALTHCORE, INC. | 20151999 | 93 | 837 | 1 | |
| | HUNTINGTON MEDICAL RESEARCH INSTITUTES | 6085-18-01-CYC1 | 93 | 837 | 44,694 | |
| | MCGUIRE RESEARCH INSTITUTE, INC. | 1R34HL13811001 | 93 | 837 | 3,794 | |
| | UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT TYLER | SC18-01 | 93 | 837 | 160,478 | |
| | | | | | 11,764,994 | |
| | Passthrough/Partial Passthrough | | | | | |
| | BAYLOR COLLEGE OF MEDICINE | 7000000159 | 93 | 838 | 17,948 | |
| | BOSTON UNIVERSITY | R01HL127002-05 | 93 | 838 | 88,850 | |
| | BRIGHAM AND WOMEN'S HOSPITAL | 117080 | 93 | 838 | 5,896 | |
| | CEDARS-SINAI MEDICAL CENTER | 20180851 | 93 | 838 | 459,563 | |
| | CEDARS-SINAI MEDICAL CENTER | 2P01HL108793-06A | 93 | 838 | 196,969 | |
| | CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS. | 57343 | 93 | 838 | -770 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | 3200930819:1 | 93 | 838 | 15,043 | |
| | COLUMBIA UNIVERSITY | SUB 1 GG013356-01(HL138468) | 93 | 838 | 214,183 | |
| | COLUMBIA UNIVERSITY | 1(GG010919-03):2 | 93 | 838 | 41,803 | |
| | JOHNS HOPKINS UNIVERSITY | 2003614631 | 93 | 838 | 70,193 | |
| | MASSACHUSETTS GENERAL HOSPITAL | A126302 | 93 | 838 | 66 | |
| MASSACHUSETTS GENERAL HOSPITAL | 100465C | 93 | 838 | 77,802 | | |
| MASSACHUSETTS GENERAL HOSPITAL | 2013D003748 | 93 | 838 | 218,940 | 47,030 | |
| MASSACHUSETTS GENERAL HOSPITAL | B6660 | 93 | 838 | 8,548 | | |
| MASSACHUSETTS GENERAL HOSPITAL | 71B39 | 93 | 838 | 9,191 | | |
| NATIONAL JEWISH HEALTH | 20111602_UCSF SUB | 93 | 838 | 385,881 | | |
| NATIONAL JEWISH HEALTH | 20116001-UCSF | 93 | 838 | 332,641 | | |
| PARTNERS HEALTHCARE SYSTEM, INC | U01HL123009 | 93 | 838 | 13,668 | | |
| PENNSYLVANIA STATE UNIVERSITY | UCASF HL109086 | 93 | 838 | 10,940 | | |
| PENNSYLVANIA STATE UNIVERSITY | UCASFHL109086-SARP3 | 93 | 838 | 7,442 | | |
| THE UNIVERSITY OF ALABAMA AT BIRMINGHAM | SUB 000503442 (HL122626) | 93 | 838 | 26,553 | | |
| TULANE UNIVERSITY | TUL-HSC-557062-18/19 | 93 | 838 | 14,327 | | |
| UNIVERSITY OF CHICAGO | SUB FP063488-02-B (HL136991) | 93 | 838 | 3,062 | | |
| UNIVERSITY OF COLORADO DENVER | FY15.727.002 | 93 | 838 | -14,783 | | |
| UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE) | FY14.064.001 | 93 | 838 | 9,206 | | |
| UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE) | FY14.064.003 | 93 | 838 | -22,186 | | |
| UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE) | FY15.369.005 | 93 | 838 | 29,234 | | |
| UNIVERSITY OF ILLINOIS | 7922:3 | 93 | 838 | 52,673 | | |
| UNIVERSITY OF MICHIGAN | 3003837218 | 93 | 838 | 40,306 | | |
| UNIVERSITY OF MICHIGAN | 3004355200 | 93 | 838 | 236,293 | | |
| UNIVERSITY OF MICHIGAN | 3004647871-CYC2 | 93 | 838 | 107,933 | | |
| UNIVERSITY OF MICHIGAN | B3698 | 93 | 838 | 1,348 | | |
| UNIVERSITY OF MINNESOTA | A000213101 | 93 | 838 | -81,793 | | |
| UNIVERSITY OF MINNESOTA | A005956202 | 93 | 838 | 91,823 | | |
| UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5113231 | 93 | 838 | 98,682 | | |
| UNIVERSITY OF NORTH CAROLINA SYSTEM | 5111458 | 93 | 838 | 53,215 | | |
| UNIVERSITY OF PENNSYLVANIA | 565138 | 93 | 838 | 741 | | |
| UNIVERSITY OF PENNSYLVANIA | B8568 | 93 | 838 | 7,400 | | |
| UNIVERSITY OF PENNSYLVANIA | 571558 | 93 | 838 | 25,048 | | |
| UNIVERSITY OF PENNSYLVANIA | 572978 | 93 | 838 | 23,303 | | |
| UNIVERSITY OF PENNSYLVANIA | 574381 | 93 | 838 | 172,676 | | |
| UNIVERSITY OF PITTSBURGH | 0041577 (1251-1) | 93 | 838 | 6,947 | | |
| UNIVERSITY OF PITTSBURGH | 0041577(125120-2) | 93 | 838 | -4,359 | | |
| UNIVERSITY OF PITTSBURGH | 0059236 (130132-1) | 93 | 838 | 60,103 | | |
| UNIVERSITY OF PITTSBURGH | 0059617 (130153-1) | 93 | 838 | 3,933 | | |
| UNIVERSITY OF PITTSBURGH | U01HL128954 | 93 | 838 | 6,834 | | |
| UNIVERSITY OF PITTSBURGH | 0035200 (123815-1) | 93 | 838 | 34,381 | | |
| UNIVERSITY OF PITTSBURGH | 9012549(130129-11) | 93 | 838 | 877 | | |
| UNIVERSITY OF WASHINGTON | 79420 | 93 | 838 | 97,478 | | |
| UNIVERSITY OF WASHINGTON | UWSC8540:3 | 93 | 838 | 605,595 | | |
| VANDERBILT UNIVERSITY MEDICAL CENTER | VUMC 44301 | 93 | 838 | 118,267 | | |
| VANDERBILT UNIVERSITY MEDICAL CENTER | VUMC 44299:3 | 93 | 838 | 10,534 | | |
| XFIBRA, LLC | 8726C | 93 | 838 | -4,801 | | |
| COPD FOUNDATION | 001 | 93 | 838 | 4,558 | | |
| COPD FOUNDATION | 002 | 93 | 838 | 1,745 | | |
| COPD FOUNDATION | D2130 | 93 | 838 | 4,797 | | |
| COPD FOUNDATION | 002-AMEND1:1 | 93 | 838 | 18,591 | | |
| KAER BIOTHERAPEUTICS CORPORATION | A132775 | 93 | 838 | 99 | | |
| | | | | 4,015,437 | 47,030 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---|--|--|---------------------|-----------|----------------------|---------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | Passthrough/Partial Passthrough | | | | | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | 87704 | 93 | 839 | -2,966 | | |
| | CHILDREN'S HOSPITAL AND RESEARCH CENTER FOUNDATION | 127909 | 93 | 839 | 35,936 | | |
| | CHILDREN'S HOSPITAL AND RESEARCH CENTER FOUNDATION | 2_7909_UCSF_OL_L6_17 | 93 | 839 | 60,385 | | |
| | CHILDREN'S HOSPITAL LOS ANGELES | 57458 | 93 | 839 | -18,502 | | |
| | DIAGNOLOGIX LLC | SUB 20180337 (HL126285) | 93 | 839 | 61,629 | | |
| | EMORY UNIVERSITY | SUB A19165(HL146147) | 93 | 839 | 775 | | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 0255-2931-4609 | 93 | 839 | 374,556 | | |
| | KAISER PERMANENTE DIVISION OF RESEARCH | 209203-001 | 93 | 839 | 4,272 | | |
| | MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH | CLA-234667-02 | 93 | 839 | 566,222 | | |
| | NATIONAL JEWISH MEDICAL AND RESEARCH CENTER | SUB 2020072608 (HL089897) | 93 | 839 | 32,336 | | |
| | NATIONAL MARROW DONOR PROGRAM | A111930 | 93 | 839 | -33,108 | | |
| | OHIO STATE UNIVERSITY | 60061716 | 93 | 839 | 6,528 | | |
| | OHIO STATE UNIVERSITY | SUB 60061829 (HL138116) | 93 | 839 | 297,119 | | |
| | OHIO STATE UNIVERSITY | SUB 60057321(HL126945) | 93 | 839 | 212,686 | | |
| | PENNSYLVANIA STATE UNIVERSITY | UCA-SFHL098115-02 | 93 | 839 | 3,661 | | |
| | PROTEOGENOMICS RESEARCH INSTITUTE FOR SYSTEMS MEDICINE | SUB NONE (HL119165) | 93 | 839 | 20,338 | | |
| | SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE | SUB 60062-12923-UCSD (HL131474) | 93 | 839 | 192,832 | | |
| | THE SCRIPPS RESEARCH INSTITUTE | 88254 | 93 | 839 | 716 | | |
| | UNIVERSITY OF MARYLAND | 14822-20552001 | 93 | 839 | 123,004 | | |
| | UNIVERSITY OF MIAMI | SUB SPC-000840 (HL136291) | 93 | 839 | 85,274 | | |
| | UNIVERSITY OF MICHIGAN | 63474 | 93 | 839 | 24,309 | | |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 201122155 | 93 | 839 | 191,139 | | |
| | UNIVERSITY OF PENNSYLVANIA | 564154/10042446/14855/00 | 93 | 839 | 163,385 | | |
| | UNIVERSITY OF PENNSYLVANIA | 565117 | 93 | 839 | 148,628 | | |
| | UNIVERSITY OF VERMONT | SUB 30768 SUB UCSD1(HL110955) | 93 | 839 | 59,584 | | |
| | UNIVERSITY OF WASHINGTON | UWSC8734 | 93 | 839 | 56,270 | | |
| | UNIVERSITY SYSTEM OF MARYLAND | 1600222-CYC1 | 93 | 839 | 44,728 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA HAMMOND (HL066941) | 93 | 839 | 88,132 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA HAMMOND 309658 (HL066941) | 93 | 839 | 32,335 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA HAMMOND 309878 (HL066941) | 93 | 839 | 21,557 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA KIRK (HL066941) | 93 | 839 | -311 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 83557 | 93 | 839 | -850 | | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | WU-14-194 | 93 | 839 | 52,481 | | |
| | YESHIVA UNIVERSITY | SUB 9-526-6969 (HL110900) | 93 | 839 | 7,369 | | |
| | ANN & ROBERT H. LURIE CHILDREN'S HOSPITAL OF CHICAGO | 901516-UCI-CYC2 | 93 | 839 | 15,745 | | |
| | JOHNS HOPKINS ALL CHILDREN'S HOSPITAL INC | SUB ACRI 9-001 (HL130048) | 93 | 839 | 2,090 | | |
| | | | | | | 2,930,282 | |
| | | Passthrough/Partial Passthrough | | | | | |
| | | GEORGE WASHINGTON UNIVERSITY | 83075 | 93 | 840 | -2,976 | |
| | | VITALANT | 10841UC131 | 93 | 840 | 154,381 | |
| | | | | | | 151,405 | |
| | | Passthrough/Partial Passthrough | | | | | |
| | | BAYLOR COLLEGE OF MEDICINE | 5U54AR068069-04 | 93 | 846 | 185,426 | |
| | | BIONIKS | B9496 | 93 | 846 | -4,866 | |
| | | BOSTON UNIVERSITY | 4500001983 | 93 | 846 | 242,507 | |
| | | BOSTON UNIVERSITY | 4500002312 | 93 | 846 | 175,116 | |
| | | BOSTON UNIVERSITY | B0916 | 93 | 846 | -1,148 | |
| | | BRIGHAM AND WOMEN'S HOSPITAL | 119967 | 93 | 846 | 43,007 | |
| | | BRIGHAM AND WOMEN'S HOSPITAL | 20163020-03 | 93 | 846 | 4,337 | |
| | | BROWN UNIVERSITY | 00001093-CYC2 | 93 | 846 | 132,903 | |
| | | CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE | 280201003-0714-S167 | 93 | 846 | 40,428 | |
| | | CASE WESTERN RESERVE UNIVERSITY | RES513311 | 93 | 846 | 30,824 | |
| | CASE WESTERN RESERVE UNIVERSITY | RES513683 | 93 | 846 | 99,481 | | |
| | DUKE UNIVERSITY | A030245 | 93 | 846 | 568 | | |
| | DUKE UNIVERSITY | A030253 | 93 | 846 | 42,003 | | |
| | EPIGEN BIOSCIENCES, INC. | SUB 20190461(AR072546) | 93 | 846 | 29,882 | | |
| | JOHNS HOPKINS UNIVERSITY | 1R01AR070773 | 93 | 846 | 43,538 | | |
| | MAINE MEDICAL CENTER | ROSEN-111071-B | 93 | 846 | 90,437 | | |
| | MASSACHUSETTS GENERAL HOSPITAL | 233131 | 93 | 846 | 16,793 | | |
| | MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH | THE-214784 | 93 | 846 | 24,878 | | |
| | NATIONWIDE CHILDREN'S HOSPITAL | 88176 | 93 | 846 | -1,003 | | |
| | NORTHWELL HEALTH INC | 500678UCSF | 93 | 846 | 365,583 | 111,463 | |
| | NORTHWESTERN UNIVERSITY | 60036404 UCSF | 93 | 846 | 192,549 | | |
| | NORTHWESTERN UNIVERSITY | 60048026 UCI-CYC1 | 93 | 846 | 11,034 | | |
| | NORTHWESTERN UNIVERSITY | B0927 | 93 | 846 | -1,412 | | |
| | SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE | SUB 58556-12524 (AR 064873) | 93 | 846 | 20,320 | | |
| | SEATTLE CHILDREN'S HOSPITAL, RESEARCH AND FOUNDATION | 11859SUB-CYC1 | 93 | 846 | 127,696 | | |

UNIVERSITY OF CALIFORNIA
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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---|--|---|--------------------------|-----------|----------------------|---------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | STANFORD UNIVERSITY | 61793858-104565 | 93 | 846 | 105,746 | | |
| | STANFORD UNIVERSITY | 79660 | 93 | 846 | 39,610 | | |
| | SUTTER WEST BAY HOSPITALS | 89097 | 93 | 846 | -5,124 | | |
| | THE UNIVERSITY OF ALABAMA AT BIRMINGHAM | 000502603-004-CYC3 | 93 | 846 | 84,043 | | |
| | TUFTS MEDICAL CENTER, INC. | 5012099-SERV | 93 | 846 | 89,001 | | |
| | UNIVERSITY OF ARIZONA | 247411 | 93 | 846 | 346,093 | | |
| | UNIVERSITY OF CINCINNATI | 59363 | 93 | 846 | 6,242 | | |
| | UNIVERSITY OF COLORADO DENVER | FY17.873.001 | 93 | 846 | 193,691 | | |
| | UNIVERSITY OF COLORADO DENVER | SUB 15.090.005 (AR067681) | 93 | 846 | 100,367 | | |
| | UNIVERSITY OF COLORADO DENVER | SUB FY19.957.001 (AR070879) | 93 | 846 | 47,750 | | |
| | UNIVERSITY OF CONNECTICUT | SUB UCHC6-80676187(AR070879) | 93 | 846 | -1,749 | | |
| | UNIVERSITY OF FLORIDA | UFDSP00012127-CYC1 | 93 | 846 | 78,443 | | |
| | UNIVERSITY OF FLORIDA | UFDFSP00012254 | 93 | 846 | 22,499 | | |
| | UNIVERSITY OF FLORIDA | UFDFSP00011907 | 93 | 846 | 140,445 | | |
| | UNIVERSITY OF FLORIDA | UFDFSP00011910 | 93 | 846 | 77,971 | | |
| | UNIVERSITY OF MICHIGAN | 3004881771 | 93 | 846 | 225,966 | | |
| | UNIVERSITY OF MICHIGAN | SUBK00007880 | 93 | 846 | 20,589 | | |
| | UNIVERSITY OF MICHIGAN | SUBK00005856 | 93 | 846 | 24,073 | | |
| | UNIVERSITY OF NORTH CAROLINA SYSTEM | 5103374 | 93 | 846 | -8,305 | | |
| | UNIVERSITY OF SOUTH CAROLINA | 19-3792-CYC1 | 93 | 846 | 348 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 79693 | 93 | 846 | -84 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 102517834 | 93 | 846 | 116,151 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 87118183:1 | 93 | 846 | 7,762 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 102070633:1 | 93 | 846 | 234,003 | | |
| | UNIVERSITY OF WISCONSIN-MADISON | SUB 630K464 (AR068373) | 93 | 846 | 63,898 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 879A2 | 93 | 846 | 41,591 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA TERKELTAUB (AR060772) | 93 | 846 | 23,902 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA D. CHANG(AR073496) | 93 | 846 | 7,440 | | |
| | WASHINGTON STATE UNIVERSITY | A7266 | 93 | 846 | -1,946 | | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | WU-19-181 | 93 | 846 | 14,220 | | |
| | YESHIVA UNIVERSITY | 310451 | 93 | 846 | -1,402 | | |
| | CHILDREN'S NATIONAL HEALTH SYSTEM | 300003331203 | 93 | 846 | 2,833 | | |
| | CONFLUENCE LIFE SCIENCES, LLP | 85289 | 93 | 846 | 816 | | |
| | MAGNAMOSIS, INC. | 070117 | 93 | 846 | 137,677 | | |
| | LOMA LINDA VETERANS ASSOCIATION FOR RESEARCH AND EDUCATION | 010413 | 93 | 846 | 5,016 | | |
| | PROTEIN FOUNDRY | A19-0737 | 93 | 846 | 30,285 | | |
| | | | | | 4,180,740 | 111,463 | |
| | Passthrough/Partial Passthrough | | | | | | |
| | | ACOUSTIC MEDSYSTEMS, INC. | A127047 | 93 | 847 | -21,476 | |
| | | ARBOR RESEARCH COLLABORATIVE FOR HEALTH | ARB041916 | 93 | 847 | 259 | |
| | | ARBOR RESEARCH COLLABORATIVE FOR HEALTH | 80598 | 93 | 847 | -4,202 | |
| | | AUGUSTA UNIVERSITY | 3083524 | 93 | 847 | 132,126 | |
| | | AUGUSTA UNIVERSITY | 30835-53 | 93 | 847 | 8,973 | |
| | | AUGUSTA UNIVERSITY | 30835-60 | 93 | 847 | 9,101 | |
| | | AUGUSTA UNIVERSITY | 80451 | 93 | 847 | -3,265 | |
| | | AUGUSTA UNIVERSITY | SUB 32307-32 (DK115255) | 93 | 847 | 18,670 | |
| | | AUGUSTA UNIVERSITY | U24DK076169 | 93 | 847 | 27,712 | |
| | | BAYLOR COLLEGE OF MEDICINE | 008859 | 93 | 847 | 6,133 | |
| | | BAYLOR COLLEGE OF MEDICINE | 7000000294:1 | 93 | 847 | 39,850 | |
| | | BECKMAN RESEARCH INSTITUTE OF THE CITY OF HOPE | 53308-2003839-00000-CYC2 | 93 | 847 | 104,045 | |
| | | BETH ISRAEL DEACONESS MEDICAL CENTER | SUB 01029372(DK111529) | 93 | 847 | 35,755 | |
| | | BOSTON UNIVERSITY | SUB 4500002259(DK108612) | 93 | 847 | 101,514 | |
| | BOSTON UNIVERSITY | 4500001991:002 | 93 | 847 | 8,436 | | |
| | BRENTWOOD BIOMEDICAL RESEARCH INSTITUTE | 79765 | 93 | 847 | 185,764 | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | SUB 118780(DK112940) | 93 | 847 | 211,788 | | |
| | BROAD INSTITUTE INC. | SUB 5216277-00000942(DK105554) | 93 | 847 | 399,652 | | |
| | BROAD INSTITUTE INC. | 879G3 | 93 | 847 | -1,782 | | |
| | BROAD INSTITUTE INC. | SUB 5216277-5500000870 (DK1055) | 93 | 847 | 72,692 | | |
| | BROAD INSTITUTE INC. | SUB 5216286-5500001263(DK10555) | 93 | 847 | 96,482 | | |
| | CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE | 28000004128 | 93 | 847 | 366,822 | | |
| | CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE | 280201011-S2104 | 93 | 847 | 3,062 | | |
| | CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE | 280201011-S202 | 93 | 847 | 38,431 | | |
| | CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY | SUB SA0000666 (5112425) | 93 | 847 | 6,870 | | |
| | CASE WESTERN RESERVE UNIVERSITY | SUB RES509275 (DK094157) | 93 | 847 | 22,166 | | |
| | CASE WESTERN RESERVE UNIVERSITY | 871G0 | 93 | 847 | -163 | | |
| | CASE WESTERN RESERVE UNIVERSITY | SUB RES512847 (DK114812) | 93 | 847 | 35,920 | | |
| | CASE WESTERN RESERVE UNIVERSITY | SUB RES513292 (DK094157) | 93 | 847 | 241,614 | | |
| | CEDARS-SINAI MEDICAL CENTER | 0001285404 | 93 | 847 | 33,420 | | |
| | CEDARS-SINAI MEDICAL CENTER | 0001285442 | 93 | 847 | 70,228 | | |

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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|--|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | CEDARS-SINAI MEDICAL CENTER | 0001405364-003 | 93 | 847 | 12,337 | |
| | CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI | 137610 | 93 | 847 | 181,594 | |
| | CHILDREN'S MERCY HOSPITAL, THE | 13-0025 | 93 | 847 | 29,475 | |
| | CHILDREN'S MERCY HOSPITAL, THE | 13-0022:5 | 93 | 847 | 41,181 | |
| | CHILDREN'S MERCY HOSPITAL, THE | 18-0020 | 93 | 847 | 1,914 | |
| | CITY OF HOPE | 51504.2000556.669309 (5U01DK10 | 93 | 847 | 20,152 | |
| | CITY OF HOPE | SUB 53234.2000556.669301(DK104 | 93 | 847 | 53,551 | 3,107 |
| | CITY OF HOPE | 010305 | 93 | 847 | 36,739 | |
| | CITY OF HOPE | R01DK119590 | 93 | 847 | 12,978 | |
| | COLUMBIA UNIVERSITY | SUB 1 (GG010427-05) (DK061734) | 93 | 847 | 8,378 | |
| | COLUMBIA UNIVERSITY | SUB 1(GG010427)(DK061734) | 93 | 847 | 592,492 | |
| | COLUMBIA UNIVERSITY | SUB GG005583-02 (DK061734) | 93 | 847 | 381,368 | |
| | COLUMBIA UNIVERSITY | 6(GG015009-01) | 93 | 847 | 43,884 | |
| | COLUMBIA UNIVERSITY | 79642 | 93 | 847 | -22,844 | |
| | EMORY UNIVERSITY | 87984 | 93 | 847 | -24,399 | |
| | FLORIDA STATE UNIVERSITY | R01948-CYC1 | 93 | 847 | 52,298 | |
| | GEORGE WASHINGTON UNIVERSITY | SUB S-GRD1213-KR40 (DK098246) | 93 | 847 | 71,912 | |
| | GEORGE WASHINGTON UNIVERSITY | 876F0 | 93 | 847 | -10,725 | |
| | GEORGE WASHINGTON UNIVERSITY | S-DPP1819-JC18 | 93 | 847 | 336,881 | |
| | GEORGE WASHINGTON UNIVERSITY | SUB S-DPP1819-JC03 (DK048489) | 93 | 847 | 31,586 | |
| | HARVARD UNIVERSITY | SUB 01060116 (DK110150) | 93 | 847 | 9,915 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 0255-3830-4609 | 93 | 847 | 168,162 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 0255-2171-4609:1 | 93 | 847 | 7,076 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 0255-2172-4609 | 93 | 847 | 3,635 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 0255-A941-4609 | 93 | 847 | 29,943 | |
| | INDIANA UNIVERSITY | A15-0013-004 | 93 | 847 | 42,450 | |
| | INDIANA UNIVERSITY | IN-4687972-UCLA | 93 | 847 | 23,877 | |
| | INTELLIGENT OPTICAL SYSTEMS, INC. | IOS-3284-CYC1 | 93 | 847 | 31,316 | |
| | JOHNS HOPKINS UNIVERSITY | 2002297514 | 93 | 847 | 253,799 | |
| | JOHNS HOPKINS UNIVERSITY | 2003447892:1 | 93 | 847 | 31,377 | |
| | JOHNS HOPKINS UNIVERSITY | 2003837592 | 93 | 847 | 408 | |
| | JOHNS HOPKINS UNIVERSITY | 24756 | 93 | 847 | 10 | |
| | KAISER PERMANENTE DIVISION OF RESEARCH | 115-7257/1494 | 93 | 847 | 846 | |
| | KAISER PERMANENTE DIVISION OF RESEARCH | 115-7258/1493 | 93 | 847 | 19,971 | |
| | KAISER PERMANENTE DIVISION OF RESEARCH | RNG200381-UCSF | 93 | 847 | 18,068 | |
| | KAISER PERMANENTE DIVISION OF RESEARCH | RNG200630-01 | 93 | 847 | 156,885 | |
| | KAISER PERMANENTE DIVISION OF RESEARCH | RNG200631-03 | 93 | 847 | -2,063 | |
| | KAISER PERMANENTE DIVISION OF RESEARCH | RNG200631-04 | 93 | 847 | 11,896 | |
| | KAISER PERMANENTE DIVISION OF RESEARCH | RNG200295-03:3 | 93 | 847 | 37,107 | |
| | KAISER PERMANENTE DIVISION OF RESEARCH | RNG209783-UCSF-01 | 93 | 847 | 11,523 | |
| | KAISER PERMANENTE DIVISION OF RESEARCH | RNG209804-01 | 93 | 847 | 163,676 | |
| | LA JOLLA INSTITUTE FOR ALLERGY AND IMMUNOLOGY | SUB 20108-44-342 (DK114457) | 93 | 847 | 255,500 | |
| | LOUISIANA STATE UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE | 5R01DK092575 | 93 | 847 | 53,813 | |
| | LOYOLA UNIVERSITY OF CHICAGO | SUB 206423 (DK104842) | 93 | 847 | 9,752 | |
| | LOYOLA UNIVERSITY OF CHICAGO | 206423:2 | 93 | 847 | 1,630 | |
| | LOYOLA UNIVERSITY OF CHICAGO | SUB 206882 (DK106898) | 93 | 847 | 61,593 | |
| | LUDWIG INSTITUTE FOR CANCER RESEARCH | SUB 2420012-05003A (DK105541) | 93 | 847 | 245,061 | |
| | LUDWIG INSTITUTE FOR CANCER RESEARCH | BREN_242304-11-CYC1 | 93 | 847 | 28,037 | |
| | LUDWIG INSTITUTE FOR CANCER RESEARCH | SUB 242001-05003B (DK105541) | 93 | 847 | 299,075 | |
| | MEDICAL COLLEGE OF WISCONSIN | 201501396 | 93 | 847 | 182,099 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC | YUKL1941-098824 | 93 | 847 | 113,900 | |
| | NORTHWESTERN UNIVERSITY | 60042868UCD | 93 | 847 | 36,501 | |
| | NORTHWESTERN UNIVERSITY | SUB 60050287 UCSD (DK117824) | 93 | 847 | 15,550 | |
| | OREGON HEALTH & SCIENCE UNIVERSITY | SUB 1005905 UCSD (DK102813) | 93 | 847 | 35,054 | |
| | RHODE ISLAND HOSPITAL | 70171373041 | 93 | 847 | 524 | |
| | STANFORD UNIVERSITY | 60896104-116817 | 93 | 847 | -424 | |
| | STANFORD UNIVERSITY | 61328829-116833:2 | 93 | 847 | 241,607 | |
| | STANFORD UNIVERSITY | 61933130-131179 | 93 | 847 | 99,706 | |
| | THE SCRIPPS RESEARCH INSTITUTE | SUB 5-53376 (DK110162) | 93 | 847 | 5,332 | |
| | THE SCRIPPS RESEARCH INSTITUTE | SUB 5-53455 (DK112927) | 93 | 847 | 65,837 | |
| | THE SCRIPPS RESEARCH INSTITUTE | SUB 5-53822 (DK117872) | 93 | 847 | 171,665 | |
| | THE SCRIPPS RESEARCH INSTITUTE | SUB 5-53968 (DK117138) | 93 | 847 | 12,226 | |
| | THE UNIVERSITY OF ALABAMA SYSTEM (SYSTEMWIDE PARENT CODE) | SUB 000501524 (DK079337) | 93 | 847 | 52,531 | |
| | UNIVERSITY OF CHICAGO | FP064994 | 93 | 847 | 140,376 | |
| | UNIVERSITY OF CHICAGO | FP046970-03-E-CYC1 | 93 | 847 | 9,535 | |
| | UNIVERSITY OF CINCINNATI | 009897-002 | 93 | 847 | 38,509 | |
| | UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE) | FY13.274.003 | 93 | 847 | 3,498 | 4,005 |
| | UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE) | FY15.018.001 | 93 | 847 | 98,104 | |
| | UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE) | FY13.269.004:AMD5 | 93 | 847 | -6 | |
| | UNIVERSITY OF FLORIDA | UFDSPO0011567 | 93 | 847 | 100,458 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|---|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | UNIVERSITY OF HAWAII AT MANOA | KA1365 | 93 | 847 | 38,085 | |
| | UNIVERSITY OF HAWAII AT MANOA | KA1467 | 93 | 847 | 26,124 | |
| | UNIVERSITY OF HAWAII AT MANOA | KA1470 | 93 | 847 | 9,132 | |
| | UNIVERSITY OF IOWA | W000834895 | 93 | 847 | -7,275 | |
| | UNIVERSITY OF IOWA | W000936998 | 93 | 847 | 9,312 | |
| | UNIVERSITY OF IOWA | SUB 500272-01(DK116624) | 93 | 847 | 15,361 | |
| | UNIVERSITY OF MARYLAND | 10018477 | 93 | 847 | 6,964 | |
| | UNIVERSITY OF MARYLAND | C1444 | 93 | 847 | -2,071 | |
| | UNIVERSITY OF MASSACHUSETTS AMHERST | 89002 | 93 | 847 | -3,859 | |
| | UNIVERSITY OF MICHIGAN | 3004817920 | 93 | 847 | 13,768 | |
| | UNIVERSITY OF MICHIGAN | SUBK00004867 | 93 | 847 | 2,621 | |
| | UNIVERSITY OF MICHIGAN | 3004967201 | 93 | 847 | 2,389 | |
| | UNIVERSITY OF MICHIGAN | 875CB | 93 | 847 | 35 | |
| | UNIVERSITY OF MICHIGAN | 8760B | 93 | 847 | -7,816 | |
| | UNIVERSITY OF MINNESOTA | SUB P006540201 (DK106786) | 93 | 847 | 58,406 | |
| | UNIVERSITY OF MINNESOTA | N005115009 | 93 | 847 | 5,051 | |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5110772 | 93 | 847 | 60,296 | |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 80488 | 93 | 847 | -16,103 | |
| | UNIVERSITY OF OREGON | SUB 215380A (DK095926) | 93 | 847 | 13,901 | |
| | UNIVERSITY OF PENNSYLVANIA | 572042 | 93 | 847 | -40,752 | |
| | UNIVERSITY OF PENNSYLVANIA | U01DK103225 | 93 | 847 | 9,299 | 7,889 |
| | UNIVERSITY OF PITTSBURGH | 0019927(118536-5) | 93 | 847 | 2,045 | |
| | UNIVERSITY OF PITTSBURGH | 0034844 (128385-2) | 93 | 847 | 36,786 | |
| | UNIVERSITY OF PITTSBURGH | SUB 0054687 ((129571-1)) (DK09 | 93 | 847 | 78,063 | |
| | UNIVERSITY OF PITTSBURGH | 87467 | 93 | 847 | -5,419 | |
| | UNIVERSITY OF SOUTH FLORIDA | 188359 | 93 | 847 | -100,910 | |
| | UNIVERSITY OF SOUTH FLORIDA | SUB 6143-1147-00A (DK110621) | 93 | 847 | 35,634 | |
| | UNIVERSITY OF SOUTH FLORIDA | UC4DK112243 | 93 | 847 | 54,555 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | SUB 92129430 (DK110793) | 93 | 847 | 118,430 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 108190240 | 93 | 847 | 76,919 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 66872909:2 | 93 | 847 | -119 | |
| | UNIVERSITY OF TEXAS-SOUTHWESTERN MEDICAL CENTER AT DALLAS | 161111-REGISTRY | 93 | 847 | 92,628 | |
| | UNIVERSITY OF VIRGINIA | GB10510.157898:1 | 93 | 847 | 40,629 | |
| | UNIVERSITY OF WASHINGTON | SUB 698055 (DK082325) | 93 | 847 | 32,165 | |
| | UNIVERSITY OF WASHINGTON | UWSC10242 | 93 | 847 | 218,314 | |
| | UNIVERSITY OF WASHINGTON | UWSC8994 | 93 | 847 | 13,077 | |
| | UNIVERSITY OF WISCONSIN-MADISON | SUB 785K610(DK088925) | 93 | 847 | 456,955 | |
| | UNIVERSITY OF WISCONSIN-MADISON | 884K553 | 93 | 847 | 3,377 | |
| | VANDERBILT UNIVERSITY | UNIV 58354 | 93 | 847 | 127,025 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA HENRY (DK098246) | 93 | 847 | 42,656 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA HENRY(DK098246) | 93 | 847 | 58,653 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA IX (DK097093) | 93 | 847 | 11,084 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA IX 310177 DK098234-01A1 | 93 | 847 | 11,576 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA IX 5013860(DK102730) | 93 | 847 | 17,269 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA VALLON (DK106102) | 93 | 847 | 40,046 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA IX (DK102438) | 93 | 847 | 4,785 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 096070001-321430 | 93 | 847 | 66,809 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 87287 | 93 | 847 | -2,596 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 87545 | 93 | 847 | -429 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 87834 | 93 | 847 | -4,972 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA AFARI (322353)112579741 (D | 93 | 847 | 2,286 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA RIVERA-NIEVES (322351) 098 | 93 | 847 | 12,562 | |
| | VIRGINIA COMMONWEALTH UNIVERSITY | 1R01DK094818-01A1 | 93 | 847 | 89,355 | |
| | VIRGINIA COMMONWEALTH UNIVERSITY | SUB PD304070-SC106315 (DK10596 | 93 | 847 | 344,554 | |
| | WAKE FOREST UNIVERSITY | WFUHS118258 | 93 | 847 | 75,882 | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | SUB WU-15-284 (DK078669) | 93 | 847 | 117,151 | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | SUB WU-15-285 (DK078669) | 93 | 847 | 33,078 | |
| | YALE UNIVERSITY | GK000066 (CON-80000330)-CYC1 | 93 | 847 | 83,888 | |
| | MCGILL UNIVERSITY | 215685 | 93 | 847 | 96,142 | |
| | OKLAHOMA MEDICAL RESEARCH FOUNDATION | 0232-07UCLA:1 | 93 | 847 | 32,100 | |
| | ORGANOVO, INC. | SUB 20182413 (DK115242) | 93 | 847 | 73,393 | |
| | SYNTR HEALTH TECHNOLOGIES, LLC | SHT-208505-CYC2 | 93 | 847 | 48,268 | |
| | THE EMMES COMPANY, LLC | UC4 DK114839-01 | 93 | 847 | 55 | |
| | HENNEPIN HEALTHCARE SYSTEM, INC. | R01DK107269 | 93 | 847 | 63,296 | |
| | IMAGEIQ, INC. | 878BC | 93 | 847 | 12,500 | |
| | KAISER FOUNDATION HOSPITALS | RNG200631-06 | 93 | 847 | 9,454 | |
| | RIPTIDE BIOSCIENCE, INC. | A19-0704 | 93 | 847 | 15,543 | |
| | SENTIA MEDICAL SCIENCES, INC. | 1R43DK116362-01 | 93 | 847 | 38,849 | |
| | SILICON KIDNEY LLC | SK 2019-01 | 93 | 847 | 31,267 | |
| | SILICON KIDNEY LLC | SK 2019-02 | 93 | 847 | 34,335 | |

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Schedule of Expenditures of Federal Awards
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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|--|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | TARGESON, LLC | 87880 | 93 | 847 | -490 | |
| | UNIVERSITY OF TENNESSEE SYSTEM (PARENT CODE) | A18-1009-S001 | 93 | 847 | 19,585 | 15,002 |
| | Passthrough/Partial Passthrough | | | | 10,445,226 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 79068 | 93 | 848 | -11,499 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 83446 | 93 | 848 | -15,797 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 83447 | 93 | 848 | -5,059 | |
| | | | | | -32,354 | |
| | Passthrough/Partial Passthrough | | | | | |
| | CHILDREN'S MERCY HOSPITAL, THE | SUB 07-005 (DK066143) | 93 | 849 | 959 | |
| | MEDICAL COLLEGE OF WISCONSIN | SUB NONE (DK088831) | 93 | 849 | 52,848 | |
| | TEXAS BIOMEDICAL RESEARCH INSTITUTE (TEXAS BIOMED) | SUB 16-04613-401 (DK110096) | 93 | 849 | 121,388 | |
| | THE SCRIPPS RESEARCH INSTITUTE | SUB TSRI-20162946-GODINO(DK112 | 93 | 849 | 104,685 | |
| | THE UNIVERSITY OF ALABAMA AT BIRMINGHAM | SUB 000518751-SP001-001(DK0793 | 93 | 849 | 396,357 | |
| | UNIVERSITY OF MINNESOTA | SUB P006923601(DK102932) | 93 | 849 | 51,961 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA AFARI (1 R01 DK106415-01A1 | 93 | 849 | -161 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA AFARI 316834 (DK106415-01 | 93 | 849 | 41,681 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA GODINO (DK106415) | 93 | 849 | 9,057 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA GOLSHAN 317249 (DK106415 | 93 | 849 | 31,115 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA LANG 316833 (1 R01 DK10641 | 93 | 849 | 9,538 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA RIFKIN (DK105314) | 93 | 849 | 16,266 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA THOMSON (DK112042) | 93 | 849 | 172,921 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA VALLON (DK112042) | 93 | 849 | 61,876 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 79445 | 93 | 849 | -5,094 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 79446 | 93 | 849 | -456 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 83428 | 93 | 849 | -29,854 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 83477 | 93 | 849 | -7,234 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 83551 | 93 | 849 | -433 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 877E5 | 93 | 849 | 21,148 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA (IX) (DK119528) | 93 | 849 | 6,300 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA IX (321959) SHL2118-06 (DK | 93 | 849 | 9,624 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA IX (321960) (DK111510) | 93 | 849 | 15,036 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA IX (DK102730) | 93 | 849 | 43,173 | |
| | | | | | 1,122,702 | |
| | Passthrough/Partial Passthrough | | | | | |
| | CASE WESTERN RESERVE UNIVERSITY | RES512886 | 93 | 850 | 160,822 | 160,822 |
| | Passthrough/Partial Passthrough | | | | | |
| | BAYLOR COLLEGE OF MEDICINE | 54485-T | 93 | 853 | 133,017 | |
| | BETH ISRAEL DEACONESS MEDICAL CENTER | 01025970 | 93 | 853 | 11,136 | |
| | BOSTON UNIVERSITY | 79A44 | 93 | 853 | -47 | |
| | BOSTON UNIVERSITY | A16-0139-005 | 93 | 853 | 61,496 | |
| | BOSTON UNIVERSITY | SUB 4500002804 (NS108472) | 93 | 853 | 277,999 | |
| | BRENTWOOD BIOMEDICAL RESEARCH INSTITUTE | 58029 | 93 | 853 | -5,833 | |
| | BRIGHAM AND WOMEN'S HOSPITAL | SUB 108685 (NS 079201) | 93 | 853 | -18,346 | |
| | BRIGHAM AND WOMEN'S HOSPITAL | 114929-CYC2 | 93 | 853 | 62,571 | |
| | CALIFORNIA INSTITUTE OF TECHNOLOGY | SUB 18B-1097808(NS094403B) | 93 | 853 | 125,408 | |
| | CASE WESTERN RESERVE UNIVERSITY | 79796 | 93 | 853 | -19,328 | |
| | CASE WESTERN RESERVE UNIVERSITY | RES512398 | 93 | 853 | 199,911 | |
| | CAYETANO HEREDIA UNIVERSITY | 20162017 | 93 | 853 | 26,195 | |
| | CEDARS-SINAI MEDICAL CENTER | UG3NS 105703 | 93 | 853 | 31,864 | |
| | CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS. | 57509 | 93 | 853 | 58,410 | |
| | CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS. | 79776 | 93 | 853 | 18,805 | |
| | CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS. | GENFD0001322970 | 93 | 853 | 59,670 | |
| | CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS. | GENFD0001329653:4 | 93 | 853 | 38,471 | |
| | CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS. | GENFD0001329779:3 | 93 | 853 | 63,461 | |
| | CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS. | GENFD0001358261:3 | 93 | 853 | 19,455 | |
| | CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI | 58865 | 93 | 853 | -9,202 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | 3210390817:7 | 93 | 853 | 90,072 | |
| | COLD SPRING HARBOR LABORATORY | 64100112 | 93 | 853 | 87,409 | |
| | COLUMBIA UNIVERSITY | 1(GG010432-02) | 93 | 853 | -2,403 | |
| | COLUMBIA UNIVERSITY | SUB GG010312 (NS078059) | 93 | 853 | 26,991 | |
| | COLUMBIA UNIVERSITY | 2(GG010432-01) | 93 | 853 | 4,432 | |
| | COLUMBIA UNIVERSITY | 3(GG012011-02) | 93 | 853 | 94,234 | |
| | COLUMBIA UNIVERSITY | 3(CG013057-07 | 93 | 853 | 370,601 | |
| | CORNELL UNIVERSITY | 16081320 | 93 | 853 | 31,797 | |

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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|--|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | CORNELL UNIVERSITY | 183412 | 93 | 853 | 130,217 | |
| | CORNELL UNIVERSITY | 190630-03 | 93 | 853 | 122,677 | |
| | CORNELL UNIVERSITY | 190630-04 | 93 | 853 | 161,985 | |
| | CORNELL UNIVERSITY | 190630-05 | 93 | 853 | 73,431 | |
| | DANA-FARBER CANCER INSTITUTE | 1278001 | 93 | 853 | 191,483 | |
| | DARTMOUTH COLLEGE | SUB R1070 (NS108809) | 93 | 853 | 24,711 | |
| | DREXEL UNIVERSITY | 232674 | 93 | 853 | 14,756 | |
| | DUKE UNIVERSITY | SUB 2034905 (NS092521) | 93 | 853 | 366,202 | |
| | DUKE UNIVERSITY | SUB A03-0100 (NS109401) | 93 | 853 | 76,968 | |
| | EMORY UNIVERSITY | T423135-CYC1 | 93 | 853 | 154,871 | |
| | GLADSTONE INSTITUTES | R2442-A | 93 | 853 | 72,850 | |
| | GLADSTONE INSTITUTES | R2442-C | 93 | 853 | 21,558 | |
| | GLADSTONE INSTITUTES | R2442-E | 93 | 853 | 78,819 | |
| | GLADSTONE INSTITUTES | SUB R2400-A (NS094342) | 93 | 853 | 75,368 | |
| | GLADSTONE INSTITUTES | SUB R2432-A (NS097976) | 93 | 853 | 50,734 | |
| | GLADSTONE INSTITUTES | R02082-A | 93 | 853 | 5,626 | |
| | GLADSTONE INSTITUTES | R01750-A | 93 | 853 | 215 | |
| | GLADSTONE INSTITUTES | R2442-D-2 | 93 | 853 | -18 | |
| | HEALTH RESEARCH, INC. | 5977-01-CYC1 | 93 | 853 | 55,116 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 0255-0642-4609:2 | 93 | 853 | 250,936 | |
| | INSTITUTE FOR MOLECULAR MEDICINE, INC. (CALIFORNIA) | UCI-2014-56074-CYC4 | 93 | 853 | 115,744 | |
| | INSTITUTE FOR MOLECULAR MEDICINE, INC. (CALIFORNIA) | UCI-2014-56212-CYC4 | 93 | 853 | 129,853 | |
| | IOWA STATE UNIVERSITY | 4301738A | 93 | 853 | 103,370 | |
| | JOHNS HOPKINS UNIVERSITY | 2003042369:2 | 93 | 853 | 77 | |
| | KAISER PERMANENTE DIVISION OF RESEARCH | RNG200618 | 93 | 853 | 57,086 | 59,699 |
| | KAISER PERMANENTE DIVISION OF RESEARCH | RNG200620 | 93 | 853 | 17,318 | |
| | KENNEDY KRIEGER INSTITUTE | 1K12NS098482-01-CYC1 | 93 | 853 | 189,682 | |
| | LOUISIANA STATE UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE | R21NS109668 | 93 | 853 | 4,992 | |
| | LUDWIG INSTITUTE FOR CANCER RESEARCH | SUB 240630-05003 (NS027036) | 93 | 853 | 35,537 | |
| | LUDWIG INSTITUTE FOR CANCER RESEARCH | 233309-05012:02 | 93 | 853 | 14,873 | |
| | MASSACHUSETTS GENERAL HOSPITAL | 201604272 | 93 | 853 | 24,865 | |
| | MASSACHUSETTS GENERAL HOSPITAL | 20164300 | 93 | 853 | 5,884 | |
| | MASSACHUSETTS GENERAL HOSPITAL | 226396 | 93 | 853 | 36,057 | |
| | MASSACHUSETTS GENERAL HOSPITAL | NN103 | 93 | 853 | 995 | |
| | MASSACHUSETTS GENERAL HOSPITAL | A18-0600-001 | 93 | 853 | 88,086 | |
| | MASSACHUSETTS GENERAL HOSPITAL | NN107 | 93 | 853 | 100,127 | |
| | MASSACHUSETTS GENERAL HOSPITAL | A18-0600-002 | 93 | 853 | 46 | |
| | MASSACHUSETTS GENERAL HOSPITAL | NS095388-CYC1 | 93 | 853 | 393 | |
| | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | 5710003857-CYC1 | 93 | 853 | 141,590 | |
| | MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH | UH2NS095495 | 93 | 853 | 71,629 | |
| | MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH | 81742 | 93 | 853 | 47,950 | |
| | MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH | 87338 | 93 | 853 | -10,751 | |
| | MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH | THE-224063-01:1 | 93 | 853 | 445 | |
| | MEDICAL UNIVERSITY OF SOUTH CAROLINA | MUSC14-016:FIVE(5) | 93 | 853 | -7,540 | |
| | MOREHOUSE SCHOOL OF MEDICINE | 008650 | 93 | 853 | 51,457 | |
| | NEURAL ANALYTICS | 2R44NS092209-2 | 93 | 853 | 378,928 | |
| | NORTHWESTERN UNIVERSITY | 1U01NS080818-01A1 | 93 | 853 | -365 | |
| | NORTHWESTERN UNIVERSITY | SUB 60036745 UCSD (NS080818) | 93 | 853 | 29,419 | |
| | NORTHWESTERN UNIVERSITY | 60036745 UC-CYC6 | 93 | 853 | 578 | |
| | NORTHWESTERN UNIVERSITY | 60041563 UCI-CYC3 | 93 | 853 | 169,445 | |
| | PRINCETON UNIVERSITY | U19NS104648 | 93 | 853 | 232,054 | |
| | RECOMBINETICS, INC | 1R43NS097090-01A1 | 93 | 853 | 48,392 | |
| | RUSH UNIVERSITY MEDICAL CENTER | 15060903-SUB03 | 93 | 853 | 177,096 | |
| | SALK INSTITUTE FOR BIOLOGICAL STUDIES | SUB P1015431 (R01NS104368) | 93 | 853 | 123,385 | |
| | SCINTILLON INSTITUTE | 874E3 | 93 | 853 | -17 | |
| | SEACOAST SCIENCE, INC. | 16-1004SC-CYC2 | 93 | 853 | 97,357 | |
| | SEPULVEDA RESEARCH CORPORATION | LA10004_UC04:4 | 93 | 853 | 102,066 | |
| | ST. JOSEPH'S HOSPITAL AND MEDICAL CENTER | 80844 | 93 | 853 | 75,609 | |
| | STANFORD UNIVERSITY | 61288309-120633 | 93 | 853 | 10,983 | |
| | STANFORD UNIVERSITY | 61304878-123178 | 93 | 853 | 18,174 | |
| | STANFORD UNIVERSITY | 61311381-124387-CYC3 | 93 | 853 | 114,396 | |
| | STANFORD UNIVERSITY | 61318549-12054-CYC3 | 93 | 853 | 5,511 | |
| | STANFORD UNIVERSITY | 61977990-123737-CYC1 | 93 | 853 | 84,755 | |
| | STANFORD UNIVERSITY | A18-0238-001 | 93 | 853 | 127,103 | |
| | TEMPLE UNIVERSITY | SUB 261426-UCSD (NS105961) | 93 | 853 | 178,487 | |
| | THE UNIVERSITY OF ALABAMA (TUSCALOOSA) | 000508025-001:A01 | 93 | 853 | 22,759 | |
| | THE UNIVERSITY OF ALABAMA AT BIRMINGHAM | 000510297-005:A02 | 93 | 853 | 17,895 | |
| | THOMAS JEFFERSON UNIVERSITY | 080-19000-K07201:1 | 93 | 853 | 7,645 | |
| | UNIVERSITY OF ARIZONA | R01NS076856 | 93 | 853 | 3,537 | |
| | UNIVERSITY OF CHICAGO | FP066261-G | 93 | 853 | 71,037 | |

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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|---|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | UNIVERSITY OF CHICAGO | SUB FP063810-D(OD023281) | 93 | 853 | 20,737 | |
| | UNIVERSITY OF CHICAGO | FP060364-CYC3 | 93 | 853 | 77,791 | |
| | UNIVERSITY OF CINCINNATI | 008822-ADM-CRAMER-CYC1 | 93 | 853 | 72,152 | |
| | UNIVERSITY OF CINCINNATI | 80321 | 93 | 853 | -7,212 | |
| | UNIVERSITY OF CINCINNATI | SUB 010085-119530 (NS092076) | 93 | 853 | 9,957 | |
| | UNIVERSITY OF CINCINNATI | 010085-135728 | 93 | 853 | 696 | |
| | UNIVERSITY OF CINCINNATI | SUB 010785-135727 (NS095869) | 93 | 853 | 4,814 | |
| | UNIVERSITY OF CINCINNATI | 008822-ADM-SAVER-1.4 | 93 | 853 | 11,155 | |
| | UNIVERSITY OF CINCINNATI | 010785-135728 | 93 | 853 | 1,502 | |
| | UNIVERSITY OF CINCINNATI | 010785-135728 HEMPHILL | 93 | 853 | 1,900 | |
| | UNIVERSITY OF CINCINNATI | 010785-135728 MEISEL | 93 | 853 | 77 | |
| | UNIVERSITY OF CINCINNATI | SUB 011266-135727 (NS100699) | 93 | 853 | 3,402 | |
| | UNIVERSITY OF CINCINNATI | SUB 011337-135727 (NS099043) | 93 | 853 | 561 | |
| | UNIVERSITY OF CINCINNATI | U01NS091951-133897-CYC5 | 93 | 853 | 2,679 | |
| | UNIVERSITY OF GEORGIA | SUB00001755 | 93 | 853 | 57,397 | |
| | UNIVERSITY OF IOWA | W000873022 | 93 | 853 | 64,719 | |
| | UNIVERSITY OF KENTUCKY/UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION | SUB 3210000405-17-136 (NS09719) | 93 | 853 | 166,056 | |
| | UNIVERSITY OF KENTUCKY/UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION | SUB 3048112415-17-189 (NS07089) | 93 | 853 | 23,537 | |
| | UNIVERSITY OF KENTUCKY/UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION | 81466 | 93 | 853 | -11,382 | |
| | UNIVERSITY OF MASSACHUSETTS AMHERST | 19-010728 B00 | 93 | 853 | 96,639 | |
| | UNIVERSITY OF MIAMI | SUB 664008 (NS092091) | 93 | 853 | 75,527 | |
| | UNIVERSITY OF MIAMI | SPC-000308 | 93 | 853 | 20,385 | |
| | UNIVERSITY OF MIAMI | SPC-000223:5 | 93 | 853 | 97,517 | |
| | UNIVERSITY OF MIAMI | SPC-000282-CYC1 | 93 | 853 | 102,510 | |
| | UNIVERSITY OF MICHIGAN | 3004167516 | 93 | 853 | 33,734 | |
| | UNIVERSITY OF MICHIGAN | 3004730634 | 93 | 853 | 101,406 | |
| | UNIVERSITY OF MICHIGAN | SUBK00004112-ESETT | 93 | 853 | 14,617 | |
| | UNIVERSITY OF MICHIGAN | 3002348507-SHN:30 | 93 | 853 | 19,052 | 6,892 |
| | UNIVERSITY OF MICHIGAN | 3002773601-ISPOT:34 | 93 | 853 | 2,202 | |
| | UNIVERSITY OF MICHIGAN | SUBK00004114-ESETT:33 | 93 | 853 | 8,575 | |
| | UNIVERSITY OF MICHIGAN | SUBK00007560 | 93 | 853 | 12,973 | |
| | UNIVERSITY OF MICHIGAN | SUBK00008388 | 93 | 853 | 35,477 | |
| | UNIVERSITY OF MICHIGAN | U01NS099046 | 93 | 853 | 25,591 | |
| | UNIVERSITY OF MICHIGAN | 3004674692-PNT | 93 | 853 | 5,201 | |
| | UNIVERSITY OF MONTANA | PG16-64514-03 | 93 | 853 | 265,118 | |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5108837 | 93 | 853 | 48,074 | |
| | UNIVERSITY OF PENNSYLVANIA | 572024 | 93 | 853 | 109,111 | |
| | UNIVERSITY OF PENNSYLVANIA | 566106-CYC4 | 93 | 853 | 12,845 | |
| | UNIVERSITY OF PITTSBURGH | 57605 | 93 | 853 | -1,624 | |
| | UNIVERSITY OF PITTSBURGH | 59374 | 93 | 853 | 60,217 | |
| | UNIVERSITY OF ROCHESTER | 417266:1 | 93 | 853 | 8,218 | |
| | UNIVERSITY OF ROCHESTER | 417388 | 93 | 853 | 80,536 | |
| | UNIVERSITY OF ROCHESTER | U01 NS061799 | 93 | 853 | 5,199 | |
| | UNIVERSITY OF ROCHESTER | 33456 | 93 | 853 | 10,606 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 85744618 | 93 | 853 | 157,545 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 84718050:4 | 93 | 853 | 951,525 | |
| | UNIVERSITY OF TENNESSEE HEALTH SCIENCE CENTER | 78782 | 93 | 853 | -1,021 | |
| | UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON | 0012260C-CYC3 | 93 | 853 | 112,679 | |
| | UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON | 0013748A | 93 | 853 | 17,171 | |
| | UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO | 80B99 | 93 | 853 | 69,258 | |
| | UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO | R01NS017950 | 93 | 853 | 102,631 | |
| | UNIVERSITY OF TEXAS-AUSTIN | UTA17-000609 | 93 | 853 | 3,185,512 | 2,218,632 |
| | UNIVERSITY OF UTAH | 10035100-01:3 | 93 | 853 | -33 | |
| | UNIVERSITY OF VERMONT | 32808SUB52599-CYC1 | 93 | 853 | 268,581 | |
| | UNIVERSITY OF VIRGINIA | GB10094-147357 | 93 | 853 | 39,390 | |
| | UNIVERSITY OF VIRGINIA | GB10094154461 | 93 | 853 | 8,500 | |
| | UNIVERSITY OF VIRGINIA | 21NS106592 | 93 | 853 | 20,933 | |
| | UNIVERSITY OF WASHINGTON | 752137 | 93 | 853 | 8,741 | |
| | UNIVERSITY OF WISCONSIN-MADISON | SUB 578K325 (NS083514) | 93 | 853 | 70,108 | |
| | UNIVERSITY OF WISCONSIN-MADISON | R01NS110719 | 93 | 853 | 3,526 | |
| | UNIVERSITY OF WISCONSIN-MADISON | SUB 716K063 131212(NS092870) | 93 | 853 | 160 | |
| | UNIVERSITY OF WISCONSIN-MADISON | SUB 818K484 (NS103844) | 93 | 853 | 167,057 | |
| | UNIVERSITY OF WISCONSIN-MADISON | SUB 847K836 (NS109486) | 93 | 853 | 111,869 | |
| | YESHIVA UNIVERSITY | 311509 | 93 | 853 | 71,948 | |
| | NEW YORK UNIVERSITY SCHOOL OF MEDICINE | 18-A0-00-1000533-01 | 93 | 853 | 34,254 | |
| | WINSANTOR INC | SUB NONE (NS105177) | 93 | 853 | 96,031 | |
| | NEURALSTEM INC. | SUB 20172379 (R44NS103703) | 93 | 853 | 311,655 | |
| | METHODIST HOSPITAL RESEARCH INSTITUTE, THE | AGMT00000770 | 93 | 853 | 1,138 | |
| | CENTRAL MICHIGAN UNIVERSITY | SUB F63535 (NS099709) | 93 | 853 | 96,973 | |
| | ALLEN INSTITUTE | R01NS092474 | 93 | 853 | 167,829 | |

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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | | | |
|---|---|--|---|--------------------------|----------------------|---------------------------------|---------|--|
| | | | Prefix | Extension | Federal Expenditures | Passed through to Subrecipients | | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | NEUROLOGICAL DISORDERS & STROKE, NATIONAL INSTITUTE OF ALBERT EINSTEIN COLLEGE OF MEDICINE ALBERT EINSTEIN COLLEGE OF MEDICINE THE EMMES COMPANY, LLC AMERICAN LIFE SCIENCE PHARMACEUTICALS, INC. ASPIRE BIOSCIENCE, LLC BRAINBOX SOLUTIONS INC. C. LIGHT TECHNOLOGIES, INC. NEOKERA, LLC SECOND SIGHT MEDICAL PRODUCTS, INC UNIVERSITY OF NEBRASKA AT KEARNEY | 98175C-04 | 93 | 853 | 274,355 | | | |
| | | R01NS104911 | 93 | 853 | 250,898 | | | |
| | | SUB 311235 (NS104911) | 93 | 853 | 108,137 | | | |
| | | SUB NONE (NS062835) | 93 | 853 | 84,930 | | | |
| | | SUB 20183456(NS110147) | 93 | 853 | 106,100 | | | |
| | | AB-210334-CYC1 | 93 | 853 | 38,712 | | | |
| | | 20185109 | 93 | 853 | 107,194 | | | |
| | | 1R41NS100222-01A1 | 93 | 853 | 60,983 | | | |
| | | NK-209319-CYC1 | 93 | 853 | 216,703 | | | |
| | | 20190428 | 93 | 853 | 213,662 | | | |
| | | 17-022-01 | 93 | 853 | 27,677 | | | |
| | | | | | 16,396,297 | 2,285,223 | | |
| | | Passthrough/Partial Passthrough | | | | | | |
| | | | AKONNI BIOSYSTEMS | SUB 20180671(AI138903) | 93 | 855 | 127,680 | |
| | | | AMERICAN ONCOLOGIC HOSPITAL | SUB CORE B (AI102853) | 93 | 855 | 166,522 | |
| | | | AMERICAN ONCOLOGIC HOSPITAL | SUB PROJECT 4 (AI102853) | 93 | 855 | 445,448 | |
| | | | ANTIGEN DISCOVERY, INC | ADI-203880-CYC2 | 93 | 855 | 16,692 | |
| | | | ARIZONA STATE UNIVERSITY/TEMPE | 16-964-2 | 93 | 855 | 50,126 | |
| | | | BAYLOR COLLEGE OF MEDICINE | 7000000260 | 93 | 855 | 174,033 | |
| | | | BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON | FY141TN078 | 93 | 855 | 6,546 | |
| | | | BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON | FY151TN160 | 93 | 855 | 311,471 | |
| | | | BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON | FY161TN182 | 93 | 855 | 29,757 | |
| | | | BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON | FY161TN186 | 93 | 855 | 28,613 | |
| | | | BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON | FY161TN207 | 93 | 855 | 51,691 | |
| | BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON | FY141TN098 | 93 | 855 | 40,479 | | | |
| | BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON | FY151TN104 | 93 | 855 | 220,288 | | | |
| | BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON | FY181TN057 | 93 | 855 | 6,411,020 | | | |
| | BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON | FY181TN112 | 93 | 855 | 2,780 | | | |
| | BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON | FY181TN199 | 93 | 855 | 3,307 | | | |
| | BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON | FY181TN258-01 | 93 | 855 | 50,524 | | | |
| | BETH ISRAEL DEACONESS MEDICAL CENTER | 01029108 | 93 | 855 | 25,376 | | | |
| | BOSTON MEDICAL CENTER CORPORATION | 0371101 | 93 | 855 | 1,972 | | | |
| | BOSTON UNIVERSITY | 4500002391 | 93 | 855 | 47,599 | | | |
| | BOSTON UNIVERSITY | 4500002399 | 93 | 855 | 75,099 | | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | 109925 | 93 | 855 | 159,882 | | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | 110007 | 93 | 855 | 5,381 | | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | 110237 | 93 | 855 | 599 | | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | SUB 108561 (AI068636) | 93 | 855 | 10,451 | | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | SUB 110009 (AI068636) | 93 | 855 | 38,720 | | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | SUB 110206 (AI068636) | 93 | 855 | 368,199 | | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | 110207-4 | 93 | 855 | 65,183 | | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | 110229 | 93 | 855 | 26,557 | | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | 110238 | 93 | 855 | 5,592 | | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | 110668 | 93 | 855 | 16,798 | | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | 117056 | 93 | 855 | 24,261 | | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | 117291 | 93 | 855 | 2,420,015 | 1,460,022 | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | SUB 110299 (AI068636) | 93 | 855 | 6,531 | | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | SUB 116529 (AI068636) | 93 | 855 | 70,455 | | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | 109930-2 | 93 | 855 | 412,561 | | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | 110008-4 | 93 | 855 | 317,878 | | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | 110009 | 93 | 855 | 20,045 | | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | 110009-4 | 93 | 855 | 9,643 | | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | 116529-1 | 93 | 855 | 3,036 | | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | 20183519 | 93 | 855 | 50,806 | | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | 58492 | 93 | 855 | 114,532 | | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | 59130 | 93 | 855 | 3,635 | | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | B8593 | 93 | 855 | 3,417 | | | |
| | BRIGHAM AND WOMEN'S HOSPITAL | SUB 110236 (AI068636) | 93 | 855 | 7,821 | | | |
| | BUCK INSTITUTE FOR RESEARCH ON AGING | SA14003-UC | 93 | 855 | 7,822 | | | |
| | CASE WESTERN RESERVE UNIVERSITY | RES512472 | 93 | 855 | 66,330 | | | |
| | CASE WESTERN RESERVE UNIVERSITY | RES511162-CYC2 | 93 | 855 | 4,700 | | | |
| | CASE WESTERN RESERVE UNIVERSITY | RES512474 | 93 | 855 | 27,330 | | | |
| | CEDARS-SINAI MEDICAL CENTER | SUB 0001522646 (AI127406) | 93 | 855 | 140,649 | | | |
| | CHILD FAMILY HEALTH INTERNATIONAL | SUB HPTN-MGA-REGUC-1 (AI069536) | 93 | 855 | 1,382,418 | 1,359,464 | | |
| | CHILDREN'S HOSPITAL AND RESEARCH CENTER FOUNDATION | 128217002 | 93 | 855 | 382,444 | | | |
| | CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS. | GENFD0001471889-CYC1 | 93 | 855 | 419,373 | | | |
| | CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS. | 58980 | 93 | 855 | -62 | | | |
| | CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS. | GENFD0001378105 | 93 | 855 | 278,992 | | | |
| | CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS. | GENFD0001525527 | 93 | 855 | 71,820 | | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|--|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | CHILDREN'S HOSPITAL LOS ANGELES | RGF010603-D | 93 | 855 | 25,678 | |
| | CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI | SUB 135407 (A1117804) | 93 | 855 | 141,605 | |
| | CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI | 139469 | 93 | 855 | 127,205 | |
| | COLORADO STATE UNIVERSITY | G-14944-1 | 93 | 855 | 154,743 | |
| | COLUMBIA UNIVERSITY | 7(GG008377-19) | 93 | 855 | 116,244 | |
| | COLUMBIA UNIVERSITY | 07(GG011896-34) | 93 | 855 | 142,649 | |
| | COLUMBIA UNIVERSITY | U54A1138370 | 93 | 855 | 189,707 | |
| | COLUMBIA UNIVERSITY | 11(GG011896-34):3 | 93 | 855 | 46 | |
| | COLUMBIA UNIVERSITY | 14(GG011896-34) :3 | 93 | 855 | -1,567 | |
| | COLUMBIA UNIVERSITY | 22(GG011896-49) | 93 | 855 | 107,918 | |
| | COLUMBIA UNIVERSITY | 8(GG011896-34):3 | 93 | 855 | 55,973 | |
| | DANA-FARBER CANCER INSTITUTE | 1235903 | 93 | 855 | 103,520 | |
| | DANA-FARBER CANCER INSTITUTE | R01A1134494 | 93 | 855 | 141,635 | |
| | DARTMOUTH COLLEGE | 009256 | 93 | 855 | 58,949 | |
| | DARTMOUTH COLLEGE | 009399 | 93 | 855 | 132,270 | |
| | DUKE UNIVERSITY | 2032191 | 93 | 855 | 937,518 | |
| | DUKE UNIVERSITY | 203-7713 | 93 | 855 | 60,027 | |
| | DUKE UNIVERSITY | 2037021 | 93 | 855 | 36,523 | |
| | DUKE UNIVERSITY | 225440 | 93 | 855 | 1,903 | |
| | DUKE UNIVERSITY | 57254 | 93 | 855 | -424 | |
| | DUKE UNIVERSITY | 203-7689 | 93 | 855 | 150,893 | |
| | DUKE UNIVERSITY | 203-7859 | 93 | 855 | 494,676 | |
| | DUKE UNIVERSITY | 2035602:1 | 93 | 855 | 890 | |
| | DUKE UNIVERSITY | 2037748 | 93 | 855 | 30,704 | |
| | DUKE UNIVERSITY | 79562 | 93 | 855 | 63,067 | |
| | DUKE UNIVERSITY | A18-2312 | 93 | 855 | 16,860 | |
| | EMORY UNIVERSITY | SUB S899904 (A1090023) | 93 | 855 | 161,843 | |
| | EMORY UNIVERSITY | 79294 | 93 | 855 | 19 | |
| | EMORY UNIVERSITY | A016147 | 93 | 855 | 156,409 | |
| | EMORY UNIVERSITY | A042615 | 93 | 855 | 298,470 | |
| | EMORY UNIVERSITY | A115274 | 93 | 855 | 34,181 | |
| | FHI 360 | SUB 952/0100.0141 (A1068619) | 93 | 855 | 37,111 | |
| | FHI 360 | 865/0080.0020:18 | 93 | 855 | -466 | |
| | FHI 360 | PO15002977:05 | 93 | 855 | 147,368 | |
| | FHI 360 | 8966C | 93 | 855 | -421 | |
| | FHI 360 | 896A6 | 93 | 855 | -634 | |
| | FHI 360 | PO18002627 | 93 | 855 | 62,559 | |
| | FHI 360 | PO15001679:6 | 93 | 855 | 351 | |
| | FHI 360 | PO15004412:08 | 93 | 855 | 255,993 | |
| | FHI 360 | PO15004413 | 93 | 855 | 974,347 | 958,801 |
| | FHI 360 | PO16002764:02 | 93 | 855 | 12,718 | 14,175 |
| | FHI 360 | PO17001861:4 | 93 | 855 | 1,614,282 | 857,530 |
| | FHI 360 | PO17002026:2 | 93 | 855 | 9,468 | |
| | FRED HUTCHINSON CANCER RESEARCH CENTER | SUB 0000879576 (A1122978) | 93 | 855 | 14,800 | |
| | FRED HUTCHINSON CANCER RESEARCH CENTER | SUB 0000929249 (A1068618) | 93 | 855 | 145,874 | |
| | FRED HUTCHINSON CANCER RESEARCH CENTER | 0000923983 | 93 | 855 | 11,080 | |
| | FRED HUTCHINSON CANCER RESEARCH CENTER | 0000928219 | 93 | 855 | 9,469 | |
| | FRED HUTCHINSON CANCER RESEARCH CENTER | 0000958775 | 93 | 855 | 23,320 | |
| | FRED HUTCHINSON CANCER RESEARCH CENTER | 0000964852 | 93 | 855 | -4,309 | |
| | GEORGE WASHINGTON UNIVERSITY | 16-M55 | 93 | 855 | -49,771 | |
| | GEORGETOWN UNIVERSITY | SUB 411316_GR411240-UCSD AWD-7 | 93 | 855 | 91,707 | |
| | GEORGIA STATE UNIVERSITY | SP00013285-04-CYC1 | 93 | 855 | 131,162 | |
| | GLADSTONE INSTITUTES | R2462-A | 93 | 855 | 336,177 | |
| | HARVARD UNIVERSITY | 008714 | 93 | 855 | 44,798 | |
| | HARVARD UNIVERSITY | 114205-1379-5107412 | 93 | 855 | 149,346 | |
| | HARVARD UNIVERSITY | 116543.5108413 | 93 | 855 | 13,071 | |
| | HARVARD UNIVERSITY | 232560 | 93 | 855 | 42,046 | |
| | HENRY FORD HEALTH SYSTEM | A120210 | 93 | 855 | -6,453 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 025578414609 | 93 | 855 | 142,638 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | SUB 0254-3241-4609 (A1106754) | 93 | 855 | -11,960 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 0255-1361-4609 | 93 | 855 | 365,685 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 0255-1369-4609 | 93 | 855 | 254,312 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 0255-8649-4609 | 93 | 855 | 251,503 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | C1507 | 93 | 855 | 77,666 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | C1867 | 93 | 855 | 105,647 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | SUB 0255-A131-4609 (A1135972) | 93 | 855 | 485,578 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 0255-1368-4609:6 | 93 | 855 | 30,231 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 0255-8666-4609 | 93 | 855 | 12,772 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 0255-8673-4609 | 93 | 855 | 64,480 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 0255-A001-4609 | 93 | 855 | 23,363 | |

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Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|--|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 0255-8011-4609 | 93 | 855 | 200,470 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 80881 | 93 | 855 | -2,316 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 8738G | 93 | 855 | -107,992 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | C0954 | 93 | 855 | 3,742 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | D2750 | 93 | 855 | 63,983 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | D3731 | 93 | 855 | 89,147 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | D3769 | 93 | 855 | 165,168 | |
| | IMMUNE DEFICIENCY FOUNDATION | 2U24AI086037-06 | 93 | 855 | 40,843 | |
| | INDIANA UNIVERSITY | IN4688399 UCSFA | 93 | 855 | 398,094 | |
| | INDIANA UNIVERSITY | 009351 | 93 | 855 | 17,609 | |
| | INDIANA UNIVERSITY | A8133 | 93 | 855 | -3,259 | |
| | INDIANA UNIVERSITY | 87264 | 93 | 855 | 1,578 | |
| | INDIANA UNIVERSITY | IN4688916UCSF B | 93 | 855 | 125,356 | |
| | INTEGRATED BIOTHERAPEUTICS, INC | R56TOXVAX-UCSF-Y1 | 93 | 855 | 97,651 | |
| | IOWA STATE UNIVERSITY | 81628 | 93 | 855 | 242,719 | |
| | IOWA STATE UNIVERSITY | B6525 | 93 | 855 | 1,188 | |
| | JOHNS HOPKINS UNIVERSITY | 2002656257 | 93 | 855 | 13,866 | |
| | JOHNS HOPKINS UNIVERSITY | 2003036375 | 93 | 855 | 63,424 | |
| | JOHNS HOPKINS UNIVERSITY | 2003124717 | 93 | 855 | 127,213 | |
| | JOHNS HOPKINS UNIVERSITY | 2003151007 | 93 | 855 | 24,226 | |
| | JOHNS HOPKINS UNIVERSITY | SUB 2000303655(AI069918) | 93 | 855 | 42,368 | |
| | JOHNS HOPKINS UNIVERSITY | SUB 2002263085 (AI068632) | 93 | 855 | 26,017 | |
| | JOHNS HOPKINS UNIVERSITY | SUB 2002283571 (AI068632) | 93 | 855 | 91,024 | |
| | JOHNS HOPKINS UNIVERSITY | SUB 2002438807 (AI068632) | 93 | 855 | 251,297 | |
| | JOHNS HOPKINS UNIVERSITY | UM1AI068632 | 93 | 855 | 31,122 | |
| | JOHNS HOPKINS UNIVERSITY | 2002170251 | 93 | 855 | 130,502 | |
| | JOHNS HOPKINS UNIVERSITY | 2002240584 | 93 | 855 | 11,878 | |
| | JOHNS HOPKINS UNIVERSITY | 2003229857:1 | 93 | 855 | 102,026 | |
| | JOHNS HOPKINS UNIVERSITY | 2003414575 | 93 | 855 | 2,408 | |
| | JOHNS HOPKINS UNIVERSITY | SUB 2003749517 (A1068632) | 93 | 855 | 28,851 | |
| | JOHNS HOPKINS UNIVERSITY | 2002292916 | 93 | 855 | 22,575 | |
| | JOHNS HOPKINS UNIVERSITY | 2002292921:06 | 93 | 855 | 26,024 | |
| | JOHNS HOPKINS UNIVERSITY | 2002292925 | 93 | 855 | 14,434 | |
| | JOHNS HOPKINS UNIVERSITY | 2002320204 | 93 | 855 | 1,554 | |
| | JOHNS HOPKINS UNIVERSITY | 2003649374 | 93 | 855 | 7,557 | |
| | JOHNS HOPKINS UNIVERSITY | 2003671219 | 93 | 855 | 9,547 | |
| | JOHNS HOPKINS UNIVERSITY | 2003738316 | 93 | 855 | 33,132 | |
| | JOHNS HOPKINS UNIVERSITY | 2003749533:01 | 93 | 855 | 15,502 | |
| | JOHNS HOPKINS UNIVERSITY | 2003821277 | 93 | 855 | 22,247 | |
| | JOHNS HOPKINS UNIVERSITY | 2003913133 | 93 | 855 | 8,001 | |
| | JOHNS HOPKINS UNIVERSITY | 2004171087 | 93 | 855 | 2,865 | |
| | JOHNS HOPKINS UNIVERSITY | 20141864:6 | 93 | 855 | 106,096 | |
| | JOHNS HOPKINS UNIVERSITY | 20182538 | 93 | 855 | 1,646 | |
| | JOHNS HOPKINS UNIVERSITY | 8764C | 93 | 855 | -1,454 | |
| | JOHNS HOPKINS UNIVERSITY | 89404 | 93 | 855 | -4,375 | |
| | JOHNS HOPKINS UNIVERSITY | B4049 | 93 | 855 | 14 | |
| | JOHNS HOPKINS UNIVERSITY | C1992 | 93 | 855 | -156 | |
| | JOHNS HOPKINS UNIVERSITY | LDR 04:03 | 93 | 855 | 155,989 | |
| | JOHNS HOPKINS UNIVERSITY | LDR 31 | 93 | 855 | 69,825 | |
| | JOHNS HOPKINS UNIVERSITY | LDR 32 | 93 | 855 | 30,793 | |
| | JOHNS HOPKINS UNIVERSITY | SUB 2003978667 (AI068632) | 93 | 855 | 82,365 | |
| | JOHNS HOPKINS UNIVERSITY | SUB 2003989285 (AI068632) | 93 | 855 | 20,283 | |
| | JOHNS HOPKINS UNIVERSITY | 2002740871:1 | 93 | 855 | 114,975 | |
| | LA JOLLA INSTITUTE FOR ALLERGY AND IMMUNOLOGY | 20025-03-381 | 93 | 855 | 22,784 | |
| | LA JOLLA INSTITUTE FOR ALLERGY AND IMMUNOLOGY | SUB 26244-44-382 (AI109976) | 93 | 855 | 249,633 | |
| | LA JOLLA INSTITUTE FOR ALLERGY AND IMMUNOLOGY | SUB 27318-44-384 (AI135731) | 93 | 855 | 25,200 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B621111-CYC1 | 93 | 855 | 100,617 | |
| | LOS ANGELES BIOMEDICAL RESEARCH INSTITUTE AT HARBOR-UCLA MEDICAL CTR | 30685-UCLA:2 | 93 | 855 | 783,299 | |
| | MAGEE-WOMENS HOSPITAL, RESEARCH INSTITUTE AND FOUNDATION | 9529 | 93 | 855 | 101,382 | |
| | MASSACHUSETTS GENERAL HOSPITAL | 227111 | 93 | 855 | 36,037 | |
| | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | 878D9 | 93 | 855 | -11,396 | |
| | MEMORIAL SLOAN-KETTERING CANCER CENTER | SUB BD21131 (AI128517) | 93 | 855 | 62,079 | |
| | MOUNT SINAI MEDICAL CENTER | 59279 | 93 | 855 | 22,335 | |
| | MOUNT SINAI MEDICAL CENTER | 57543 | 93 | 855 | 92,930 | |
| | NATIONAL JEWISH HEALTH | SUB 2020096801 (AI117673) | 93 | 855 | 1,005,487 | |
| | NATIONAL JEWISH HEALTH | SUB 20098103 (AI117673) | 93 | 855 | 86,723 | |
| | NATIONAL JEWISH HEALTH | SUB 20098204 (AI117673) | 93 | 855 | 7,552 | |
| | NEW YORK UNIVERSITY | 18-AO-00-1000450-01 | 93 | 855 | 44,888 | |
| | NORTH CAROLINA STATE UNIVERSITY | A18-0598-001 | 93 | 855 | 43,581 | |
| | NORTH CAROLINA STATE UNIVERSITY | R01AL139085 | 93 | 855 | 10,354 | |

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Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---|---|---|--------------------------------|-----------|----------------------|------------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC | SUB SUL1847-04 (AI106987) | 93 | 855 | 69,401 | | |
| | | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC | WONG1862 | 93 | 855 | 123,218 | |
| | | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC | PUL2104-01 | 93 | 855 | 8,092 | |
| | | NORTHROP GRUMMAN SYSTEMS CORPORATION | 7500157108 | 93 | 855 | 731,378 | |
| | | NORTHWESTERN UNIVERSITY | 60049111 UCLA | 93 | 855 | 185,823 | |
| | | OAK CREST INSTITUTE OF SCIENCE | S14-164 UCLA: 5 | 93 | 855 | 96,501 | |
| | | OAK CREST INSTITUTE OF SCIENCE | SUB S14-164 (AI113048) | 93 | 855 | 94,923 | |
| | | OHIO STATE UNIVERSITY | 60054601 | 93 | 855 | 8,275 | |
| | | OREGON HEALTH & SCIENCE UNIVERSITY | 871F5 | 93 | 855 | 334 | |
| | | PARTNERS HEALTHCARE SYSTEM, INC | 224471 | 93 | 855 | 46,001 | |
| | | ROCKEFELLER UNIVERSITY | 5R37AI037526 | 93 | 855 | 348,280 | |
| | | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | 108614 | 93 | 855 | 52,526 | |
| | | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | 8127 | 93 | 855 | 9,738 | |
| | | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | R01AI106398 | 93 | 855 | -29,181 | |
| | | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | 010380 | 93 | 855 | 39,176 | |
| | | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | 0790 | 93 | 855 | 10,993 | |
| | | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | 0943 | 93 | 855 | 11,725 | |
| | | RXBIO HOLDINGS, INC. | 24B63 | 93 | 855 | 2,778 | |
| | | SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE | 58295-12468-UCB | 93 | 855 | 12,824 | |
| | | SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE | 59560-12797-UCLA:2 | 93 | 855 | 73,679 | |
| | | SILVER LAKE RESEARCH CORPORATION | 041776 | 93 | 855 | 427,435 | |
| | | SOCIAL AND SCIENTIFIC SYSTEMS, INC. | 87706 | 93 | 855 | 28 | |
| | | STANFORD UNIVERSITY | 1U19AI109662-01 | 93 | 855 | 219,579 | |
| | | STANFORD UNIVERSITY | 60892242-584 | 93 | 855 | 19,941 | |
| | | STANFORD UNIVERSITY | 61097839-48307 | 93 | 855 | 25,439 | |
| | | STANFORD UNIVERSITY | 61444536-120709 | 93 | 855 | 37,213 | |
| | | STANFORD UNIVERSITY | 60625362-107582-08 | 93 | 855 | 27,748 | |
| | | STANFORD UNIVERSITY | 61806605-48307 | 93 | 855 | 9,510 | |
| | | SUSTAINABLE SCIENCES INSTITUTE | IR1200-1 | 93 | 855 | 6,736 | |
| | | TEMPLE UNIVERSITY | 262177-UC | 93 | 855 | 103,059 | |
| | | TEXAS BIOMEDICAL RESEARCH INSTITUTE (TEXAS BIOMED) | PO 45756 | 93 | 855 | 36,070 | |
| | | THE SCRIPPS RESEARCH INSTITUTE | 010557 | 93 | 855 | 15,344 | |
| | | THE SCRIPPS RESEARCH INSTITUTE | 5-53938:1 | 93 | 855 | 372,647 | |
| | | THE TEXAS A&M UNIVERSITY SYSTEM | SUB M1800750 (AI127807) | 93 | 855 | 63,869 | |
| | | THE TEXAS A&M UNIVERSITY SYSTEM | M1803705 | 93 | 855 | 257,995 | |
| | | THE TEXAS A&M UNIVERSITY SYSTEM | M1803707-CYC1 | 93 | 855 | 178,054 | |
| | | THE UNIVERSITY OF ALABAMA (TUSCALOOSA) | 82532 | 93 | 855 | -42,238 | |
| | | THE UNIVERSITY OF ALABAMA (TUSCALOOSA) | 88971 | 93 | 855 | -206 | |
| | | THE UNIVERSITY OF ALABAMA (TUSCALOOSA) | B2198 | 93 | 855 | -11,803 | |
| | | THE UNIVERSITY OF ALABAMA AT BIRMINGHAM | 000510836-005 | 93 | 855 | 408,700 | |
| | | THE UNIVERSITY OF ALABAMA AT BIRMINGHAM | 000510836-007 | 93 | 855 | 287,691 | |
| | | THE UNIVERSITY OF ALABAMA AT BIRMINGHAM | SUB 000503356-SP002-023(AI0277 | 93 | 855 | 66,301 | |
| | | THE UNIVERSITY OF ALABAMA AT BIRMINGHAM | SUB 510836-004(AI067039) | 93 | 855 | 395,661 | |
| | | THE UNIVERSITY OF ALABAMA AT BIRMINGHAM | SUB 000503356-SP002-020(AI0277 | 93 | 855 | 174,142 | |
| | | THE UNIVERSITY OF ALABAMA AT BIRMINGHAM | SUB 000503356-SP002-029 (AI027 | 93 | 855 | 17,278 | |
| | | UNIVERSITY HOSPITAL BASEL | 4609/199 | 93 | 855 | 3,232 | |
| | | UNIVERSITY OF ARIZONA | 408440 | 93 | 855 | 71,995 | |
| | | UNIVERSITY OF CHICAGO | SUB FP066835-B (AI136056) | 93 | 855 | 28,802 | |
| | | UNIVERSITY OF COLORADO DENVER | FY19.956.001-CYC1 | 93 | 855 | 30,096 | |
| | | UNIVERSITY OF COLORADO DENVER | R21AI139839 | 93 | 855 | 42,803 | |
| | | UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE) | FY16.206.002:3 | 93 | 855 | 197,562 | |
| | | UNIVERSITY OF CONNECTICUT | UCH641200355 | 93 | 855 | 149,211 | |
| | | UNIVERSITY OF GEORGIA | RR374-126/S001202-CYC2 | 93 | 855 | 226,452 | |
| | | UNIVERSITY OF HAWAII AT MANOA | KA1128 | 93 | 855 | 1,284 | |
| | | UNIVERSITY OF IDAHO | R56AI118926 | 93 | 855 | -3,871 | |
| | | UNIVERSITY OF IDAHO | R01AI131609 | 93 | 855 | 31,308 | |
| | | UNIVERSITY OF ILLINOIS | 78707 | 93 | 855 | -5,092 | |
| | | UNIVERSITY OF MASSACHUSETTS AMHERST | SUB WA00324479/RFS2016020 (AI1 | 93 | 855 | 128,114 | |
| | | UNIVERSITY OF MIAMI | SPC-000417 | 93 | 855 | 4,035 | |
| | | UNIVERSITY OF MIAMI | 5P30AI073961-12 | 93 | 855 | 130,243 | |
| | | UNIVERSITY OF MICHIGAN | A18-0705-001 | 93 | 855 | 17,533 | |
| | | UNIVERSITY OF MICHIGAN | SUBK00008602 | 93 | 855 | 25,764 | |
| | | UNIVERSITY OF MINNESOTA | P004756905 | 93 | 855 | 126,633 | |
| | | UNIVERSITY OF MINNESOTA | P004756918 | 93 | 855 | -736 | |
| | | UNIVERSITY OF MINNESOTA | P004756920 | 93 | 855 | -1,382 | |
| | | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 1R01AI114310-01 | 93 | 855 | -89 | |
| | | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5103294 | 93 | 855 | -35,293 | |
| | | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5106135 | 93 | 855 | 8,525 | |
| | | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | SUB 5109463 (AI109965) | 93 | 855 | 116,924 | |
| | | UNIVERSITY OF PENNSYLVANIA | 560928 | 93 | 855 | 26,952 | |

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Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---|--|---|--------------------------------|-----------|----------------------|------------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | UNIVERSITY OF PENNSYLVANIA | 566950 | 93 | 855 | 79,947 | | |
| | UNIVERSITY OF PITTSBURGH | 0044312 | 93 | 855 | 70,925 | | |
| | UNIVERSITY OF PITTSBURGH | 00507171276751 | 93 | 855 | 24,772 | | |
| | UNIVERSITY OF PITTSBURGH | R21A1140010 | 93 | 855 | 60,870 | | |
| | UNIVERSITY OF SOUTH FLORIDA | 6144-1094-00-A | 93 | 855 | -11,313 | | |
| | UNIVERSITY OF SOUTH FLORIDA | 009365 | 93 | 855 | 138,705 | | |
| | UNIVERSITY OF SOUTH FLORIDA | 6123-1244-20-D-CYC1 | 93 | 855 | 77,224 | | |
| | UNIVERSITY OF SOUTH FLORIDA | 6123-1247-00-D-CYC1 | 93 | 855 | 2,363 | | |
| | UNIVERSITY OF WASHINGTON | 008046 | 93 | 855 | 24,137 | | |
| | UNIVERSITY OF WASHINGTON | UWSC9531 | 93 | 855 | 18,060 | | |
| | UNIVERSITY OF WASHINGTON | UWSC10418 | 93 | 855 | 291,561 | | |
| | UNIVERSITY OF WASHINGTON | 11593SUB:02 | 93 | 855 | 73,735 | | |
| | UNIVERSITY OF WASHINGTON | UWSC10582 | 93 | 855 | 51,975 | | |
| | UNIVERSITY OF WISCONSIN-MADISON | 1UM1A1114271-01 | 93 | 855 | 425,763 | | |
| | UNIVERSITY OF WISCONSIN-MADISON | 01A11163282 | 93 | 855 | 3,019 | | |
| | UNIVERSITY OF WISCONSIN-MADISON | 22C78 | 93 | 855 | 16,317 | | |
| | UNIVERSITY OF WISCONSIN-MADISON | 892K570 | 93 | 855 | 1,708 | | |
| | UNIVERSITY OF WISCONSIN-MADISON | P01A1132132 | 93 | 855 | 14,864 | | |
| | VANDERBILT UNIVERSITY MEDICAL CENTER | VUMC 59104 | 93 | 855 | 82,145 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA GUATELLI (A1116194) | 93 | 855 | 17,491 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA GUATELLI, JOHN C (C13A1159 | 93 | 855 | 22,831 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA LOONEY (A1104283) | 93 | 855 | 13,614 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA LOONEY 309176 (A1036214) | 93 | 855 | 13,530 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA GUATELLI C13A11599 (A10913 | 93 | 855 | 19,518 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 83587 | 93 | 855 | -401 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 87857 | 93 | 855 | -549 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 88599 | 93 | 855 | -1,701 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 89025 | 93 | 855 | 83 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA RICHMAN (A1126620) | 93 | 855 | 33,317 | | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | SUB WU-18-240 (A1095542) | 93 | 855 | 26,967 | | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | WU18241 | 93 | 855 | 3,783 | | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | 82A18 | 93 | 855 | 2,923 | | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | WU-16-67-CYC4 | 93 | 855 | 35,180 | | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | WU-19-125-MOD-1 | 93 | 855 | 28,218 | | |
| | YALE UNIVERSITY | GK000160 (CON-80000452)-CYC3 | 93 | 855 | 119,525 | | |
| | YALE UNIVERSITY | B5675 | 93 | 855 | -1 | | |
| | YALE UNIVERSITY | M16A12429 (CON-800000481) | 93 | 855 | 24,331 | | |
| | HELUNA HEALTH | A122745 | 93 | 855 | 655,758 | | |
| | MICROBEDX INC. | 210954-CYC1 | 93 | 855 | 38,177 | | |
| | INSTITUTE FOR CLINICAL RESEARCH | 83327 | 93 | 855 | 3,946 | | |
| | LIGNAMED, LLC | A17-0459 | 93 | 855 | -20 | | |
| | MABDX INC. | A18-1079 | 93 | 855 | -2,994 | | |
| | METHODIST HOSPITAL RESEARCH INSTITUTE, THE | AGMT00002206 | 93 | 855 | 46,742 | | |
| | METHODIST HOSPITAL RESEARCH INSTITUTE, THE | C1516 | 93 | 855 | -1,508 | | |
| | THE HEKTOEN INSTITUTE OF MEDICINE | 50616-324-UCSF01 | 93 | 855 | 32,940 | | |
| | UNIVERSITY OF TORONTO | 503460 | 93 | 855 | 317,118 | | |
| | VIVREON BIOSCIENCES, LLC | VB-208807-CYC1 | 93 | 855 | -1,451 | | |
| | UNIVERSITY OF RHODE ISLAND | 0007489/11012018 | 93 | 855 | 37,903 | | |
| | ALBERT EINSTEIN COLLEGE OF MEDICINE | 010009 | 93 | 855 | 5,242 | | |
| | ALBERT EINSTEIN COLLEGE OF MEDICINE | 86988 | 93 | 855 | 11,647 | | |
| | VITALANT | 11530UCD150 | 93 | 855 | 98,683 | | |
| | CROSSLIFE TECHNOLOGIES INC. | SUB 20184957 (A1124779) | 93 | 855 | 23,952 | | |
| | LUMINOSTICS, INC. | CA-0124624 | 93 | 855 | 65,933 | | |
| | SOUTHERN MEDICAL UNIVERSITY | SMU-5553612-CYC1 | 93 | 855 | 26,541 | | |
| | SUNOMIX THERAPEUTICS INC. | ST1-208493-CYC1 | 93 | 855 | 96,147 | | |
| | | | | | 40,314,890 | 4,649,992 | |
| | Passthrough/Partial Passthrough | | | | | | |
| | | BRIGHAM AND WOMEN'S HOSPITAL | 8721F | 93 | 856 | -12,020 | |
| | | CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY | SUB SA0000592 (HD088688) | 93 | 856 | 268,484 | |
| | | DESIGNMEDIX, INC. | 873GE | 93 | 856 | -44,283 | |
| | | EMORY UNIVERSITY | SUB T563785 (A1090023) | 93 | 856 | 170,830 | |
| | | JOHNS HOPKINS UNIVERSITY | SUB 2002244654 (A1068632) | 93 | 856 | 12,358 | |
| | | JOHNS HOPKINS UNIVERSITY | SUB 2004008683(A1068632) | 93 | 856 | 39,228 | |
| | | NORTHEASTERN UNIVERSITY | SUB 500512-78050 (A1127594) | 93 | 856 | 77,086 | |
| | | UNIVERSITY OF MONTANA | SUB PG19-61078-01(HHSN22018000 | 93 | 856 | 53,841 | |
| | | UNIVERSITY OF PENNSYLVANIA | SUB 552499 (A1082020) | 93 | 856 | 59,444 | |
| | | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA BELIAKOVA-BETHELL 317670 (| 93 | 856 | 5,278 | |
| | | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA GUATELLI 08705004 (A108166 | 93 | 856 | 25,946 | |
| | | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA GUATELLI 09473001 (A112970 | 93 | 856 | 23,745 | |

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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---|--|--|-----------------------|-----------|----------------------|---------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA RICHMAN(AI126619) | 93 | 856 | 21,953 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA SPINA (AI122389) | 93 | 856 | 18,728 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA GUATELLI (AI081668) | 93 | 856 | 61,835 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 875EC | 93 | 856 | 20,498 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 8962D | 93 | 856 | 49,587 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | JPA GUATELLI 318979 (AI129706) | 93 | 856 | 63,464 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | SUB BEADLE (AI131424) | 93 | 856 | 43,945 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA VOLLBRECHT 320769 (AI12967 | 93 | 856 | 10,777 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 79457 | 93 | 856 | -1,586 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 82102 | 93 | 856 | -4,993 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 83556 | 93 | 856 | -28,057 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 877C2 | 93 | 856 | -385 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 879BD | 93 | 856 | 8,971 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 87A99 | 93 | 856 | 22,925 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA GUATELLI (AI116194) | 93 | 856 | 50,444 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA GUATELLI 092040003(AI11619 | 93 | 856 | 12,910 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA GUATELLI 094730002 (AI1297 | 93 | 856 | 12,652 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA GUATELLI 09473001(AI129706 | 93 | 856 | 59,955 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA SPINA (AI104282) | 93 | 856 | 60,392 | | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | SUB WU-19-93 (AI095542) | 93 | 856 | 103,527 | | |
| | GENE THERAPY SYSTEMS, INC. | 83034 | 93 | 856 | -144,781 | | |
| | | | | | 1,122,698 | | |
| | | Passthrough/Partial Passthrough | | | | | |
| | | ADVANCED GENETIC SYSTEMS, INC. | B5558 | 93 | 859 | -4,968 | |
| | | AKONNI BIOSYSTEMS | 873B7 | 93 | 859 | -55,569 | |
| | | ARIZONA STATE UNIVERSITY/TEMPE | SUB 15-695 (GM106081) | 93 | 859 | 19,549 | |
| | | ARIZONA STATE UNIVERSITY/TEMPE | SUB 16-798 (GM113967) | 93 | 859 | 29,540 | |
| | | ARIZONA STATE UNIVERSITY/TEMPE | SUB 17-245 (GM121698) | 93 | 859 | 17,631 | |
| | | ARIZONA STATE UNIVERSITY/TEMPE | 17-070:02 | 93 | 859 | 133,995 | |
| | | BOSTON UNIVERSITY | 4500002742 | 93 | 859 | 5,924 | |
| | | BROWN UNIVERSITY | 00001316 | 93 | 859 | 23,036 | |
| | | BROWN UNIVERSITY | R01GM118652 | 93 | 859 | 25,667 | |
| | | CAL STATE L.A. UNIVERSITY AUXILIARY SERVICES, INC. (UAS) | UCI231328-CYC3 | 93 | 859 | 5,312 | |
| | | CALIFORNIA INSTITUTE OF TECHNOLOGY | 68-1095554:03 | 93 | 859 | 216 | |
| | | CALIFORNIA INSTITUTE OF TECHNOLOGY | 88890 | 93 | 859 | 487 | |
| | CALIFORNIA INSTITUTE OF TECHNOLOGY | 5419077 | 93 | 859 | 4,747 | | |
| | CALIFORNIA STATE UNIVERSITY, FRESNO FOUNDATION | SC34040435-15-01 | 93 | 859 | 35,298 | | |
| | CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY | 87709 | 93 | 859 | 133 | | |
| | CARNEGIE INSTITUTION | 6-10736-01 | 93 | 859 | 54,773 | | |
| | CASE WESTERN RESERVE UNIVERSITY | RES512970 | 93 | 859 | 6,657 | | |
| | CASE WESTERN RESERVE UNIVERSITY | RES512969:1 | 93 | 859 | 10,825 | | |
| | CHILDREN'S HOSPITAL AND RESEARCH CENTER FOUNDATION | 12_8036_UCB_01 | 93 | 859 | 100,188 | | |
| | CHILDREN'S HOSPITAL AND RESEARCH CENTER FOUNDATION | 12_8036_UCSF_01 | 93 | 859 | 220,901 | | |
| | CHILDREN'S HOSPITAL AND RESEARCH CENTER FOUNDATION | 12_8036_UCLA_03:4 | 93 | 859 | 541,937 | | |
| | CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI | 79860 | 93 | 859 | 3,201 | | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | 3201300819 | 93 | 859 | 7,185 | | |
| | CITY UNIVERSITY OF NEW YORK | SUB CM00001969-00 (GM100946) | 93 | 859 | 110,449 | | |
| | COLORADO STATE UNIVERSITY | G-35013-1 | 93 | 859 | 215,219 | | |
| | CORNELL UNIVERSITY | 008628 | 93 | 859 | 60,554 | | |
| | CORNELL UNIVERSITY | 63404 | 93 | 859 | -109 | | |
| | CORNELL UNIVERSITY | 88510 | 93 | 859 | 38,806 | | |
| | DUKE UNIVERSITY | 2034849-CYC3 | 93 | 859 | 65,611 | | |
| | EMORY UNIVERSITY | 8720C | 93 | 859 | -528 | | |
| | FRED HUTCHINSON CANCER RESEARCH CENTER | 0000916050-CYC1 | 93 | 859 | 22,466 | | |
| | INDIAN HEALTH COUNCIL, INC. | SUB 20174777 (GM128073) | 93 | 859 | 73,586 | | |
| | INDIAN HEALTH COUNCIL, INC. | SUB 20174885 (GM128073) | 93 | 859 | 60 | | |
| | INDIANA UNIVERSITY | SUB IN-4686392-UCSD (GM120156) | 93 | 859 | 103,537 | | |
| | INSTITUTE FOR SYSTEMS BIOLOGY | SUB 2017.0002 (GM127667) | 93 | 859 | 96,589 | | |
| | IOWA STATE UNIVERSITY | 430-21-35A | 93 | 859 | 47,670 | | |
| | JOHNS HOPKINS UNIVERSITY | 2002314076 | 93 | 859 | 887 | | |
| | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | 89351 | 93 | 859 | 48,580 | | |
| | MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH | CLA-232782 | 93 | 859 | 35,378 | | |
| | MEDICAL COLLEGE OF WISCONSIN | 63257 | 93 | 859 | 3 | | |
| | NANOCELECT BIOMEDICAL, INC. | SUB 20181937 (GM128223) | 93 | 859 | 140,466 | | |
| | NATIONAL AUTONOMOUS UNIVERSITY OF MEXICO | 201402451 | 93 | 859 | 16,336 | | |
| | NORTH CAROLINA STATE UNIVERSITY | 2016-3285-01 | 93 | 859 | 108,487 | | |
| | NORTHWESTERN UNIVERSITY | SPO029368-PROJ0007727-CYC4 | 93 | 859 | 47,856 | | |
| | PENNSYLVANIA STATE UNIVERSITY | 5280-UC-DHHS-6044 | 93 | 859 | 177,492 | | |
| | ROCKEFELLER UNIVERSITY | 1P41GM109824-01 | 93 | 859 | 257,782 | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---|--|---|----------------------------|-----------|----------------------|------------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | ROCKEFELLER UNIVERSITY | 1R01GM112108-01A1 | 93 | 859 | 54,044 | | |
| | ROCKEFELLER UNIVERSITY | 7R01GM107124-02 | 93 | 859 | 25,622 | | |
| | SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE | 60019-13161-UCSB | 93 | 859 | 48,636 | | |
| | ST. JUDE CHILDREN'S RESEARCH HOSPITAL | 112156010-7660158 | 93 | 859 | 63,043 | | |
| | STANFORD UNIVERSITY | 60544676-109623 | 93 | 859 | 26,138 | | |
| | STANFORD UNIVERSITY | 61000019-469 | 93 | 859 | 68,786 | | |
| | STANFORD UNIVERSITY | SUB 61009649-108979 (GM106990) | 93 | 859 | 62,307 | | |
| | STANFORD UNIVERSITY | 60684362-112326:5 | 93 | 859 | 339,673 | | |
| | STANFORD UNIVERSITY | B3492 | 93 | 859 | -453 | | |
| | STANFORD UNIVERSITY | R01GM079429 | 93 | 859 | 18,290 | | |
| | STONY BROOK UNIVERSITY (A STATE UNIVERSITY OF NEW YORK CAMPUS) | 77901 | 93 | 859 | 80,740 | | |
| | TEMPLE UNIVERSITY | SUB 258162UC (GM110749) | 93 | 859 | 44,521 | | |
| | THE SCRIPPS RESEARCH INSTITUTE | SUB 5-53043 (GM100934) | 93 | 859 | 60,191 | | |
| | THE SCRIPPS RESEARCH INSTITUTE | 88825 | 93 | 859 | 419 | | |
| | THE SCRIPPS RESEARCH INSTITUTE | SUB 5-53979 (GM133157) | 93 | 859 | 10,685 | | |
| | UNIVERSITY OF CHICAGO | SUB FP063513-02 (GM121964) | 93 | 859 | 49,823 | | |
| | UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE) | FY18.726.001_AMD3 | 93 | 859 | 31,854 | | |
| | UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE) | FY19.726.001 | 93 | 859 | 101,175 | | |
| | UNIVERSITY OF FLORIDA | UFDSP00010901 | 93 | 859 | 30,886 | | |
| | UNIVERSITY OF FLORIDA | UFDSP00011896-CYC2 | 93 | 859 | 72,543 | | |
| | UNIVERSITY OF ILLINOIS | 083118-15900 | 93 | 859 | 470,853 | | |
| | UNIVERSITY OF MARYLAND | 1903395 REQUEST: 2412 | 93 | 859 | 20,506 | | |
| | UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL | OSP2018132 | 93 | 859 | 21,673 | | |
| | UNIVERSITY OF MASSACHUSETTS SYSTEM | RFS2015073 | 93 | 859 | 22,189 | | |
| | UNIVERSITY OF MICHIGAN | 3003707885 | 93 | 859 | 82,020 | | |
| | UNIVERSITY OF MICHIGAN | 3004658793 | 93 | 859 | 27,043 | | |
| | UNIVERSITY OF MICHIGAN | SUB 3004563655 (GM070862) | 93 | 859 | 96,126 | | |
| | UNIVERSITY OF MICHIGAN | A16-0292-004 | 93 | 859 | 15,269 | | |
| | UNIVERSITY OF MICHIGAN | B4242 | 93 | 859 | -957 | | |
| | UNIVERSITY OF MINNESOTA | SUB 0904509601 (GM110129) | 93 | 859 | 52,413 | | |
| | UNIVERSITY OF MINNESOTA | SUB N002311201 (GM100310) | 93 | 859 | 138,072 | | |
| | UNIVERSITY OF MINNESOTA | H006126301-CYC1 | 93 | 859 | 15,569 | | |
| | UNIVERSITY OF NEBRASKA | 24-1123-0005-002 | 93 | 859 | 145,298 | | |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5105472 | 93 | 859 | 83,962 | | |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5104882:1 | 93 | 859 | 13,875 | | |
| | UNIVERSITY OF PITTSBURGH | 81278 | 93 | 859 | 78,282 | | |
| | UNIVERSITY OF ROCHESTER | 417145/ URFAO: GR510690-CYC1 | 93 | 859 | 2,768 | | |
| | UNIVERSITY OF TEXAS-AUSTIN | SUB UTA15-000328 (GM111926) | 93 | 859 | 59,521 | | |
| | UNIVERSITY OF TEXAS-AUSTIN | UTA18-001139 | 93 | 859 | 50,152 | | |
| | UNIVERSITY OF UTAH | 10044932-06 | 93 | 859 | 208,429 | | |
| | UNIVERSITY OF UTAH | SUB 10044932-14(GM082545) | 93 | 859 | 74,124 | | |
| | UNIVERSITY OF VERMONT | 31037SUB52164 | 93 | 859 | 30,521 | | |
| | UNIVERSITY OF VIRGINIA | GB10352 153125 | 93 | 859 | 141,916 | | |
| | UNIVERSITY OF WASHINGTON | UWSC8727:3 | 93 | 859 | 36,807 | | |
| | UNIVERSITY OF WISCONSIN-MADISON | 80759 | 93 | 859 | 38,935 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA PATEL (GM085179) | 93 | 859 | 56,833 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA PATEL (GM 085179) | 93 | 859 | 51,518 | | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 873A4 | 93 | 859 | -852 | | |
| | VIRGINIA COMMONWEALTH UNIVERSITY | SUB PD303431-SC105094 (GM10989) | 93 | 859 | 10,548 | | |
| | YESHIVA UNIVERSITY | 88716 | 93 | 859 | -137 | | |
| | DUQUESNE UNIVERSITY | G1700082 | 93 | 859 | 20,709 | | |
| | SCICRUNCH | 20183548 (R41 GM131551) | 93 | 859 | 38,758 | | |
| | AIRMRN, INC. | A19-2028 | 93 | 859 | 12,945 | | |
| | INNOSCOUTING LLC | SUB 20190976(NONE) | 93 | 859 | 74,397 | | |
| | NEOVATIVE, INC. | 210792-CYC1 | 93 | 859 | 24,718 | | |
| | SIMINSIGHTS INC | SI-205886-CYC1 | 93 | 859 | 381 | | |
| | ENDOCRINE SOCIETY, THE | 87839 | 93 | 859 | 260 | | |
| | | | | | | 6,258,208 | |
| | | Passthrough/Partial Passthrough | | | | | |
| | | SAN DIEGO COMMUNITY COLLEGE DISTRICT | SUB NONE (GM073590) | 93 | 862 | 18,301 | |
| | | | | | | 18,301 | |
| | | Passthrough/Partial Passthrough | | | | | |
| | | BAYLOR COLLEGE OF MEDICINE | 7000000309:1 | 93 | 865 | 623,506 | |
| | | BOSTON MEDICAL CENTER CORPORATION | SUB BMC ID 6928 (HD096798) | 93 | 865 | 45,444 | |
| | | BROWN UNIVERSITY | 00001325 | 93 | 865 | 58,126 | |
| | | CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY | 873EA | 93 | 865 | 910 | |
| | | CHAPMAN UNIVERSITY | 500480-SUB1-CYC1 | 93 | 865 | 1,661 | |
| | | CHILDREN'S HOSPITAL LOS ANGELES | 8011-RGF009152-00-2 | 93 | 865 | 259,553 | |

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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|--|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI | 136763 | 93 | 865 | 12,748 | |
| | CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI | 138406 | 93 | 865 | -258 | |
| | CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI | 1R01HD07812701 | 93 | 865 | 10,077 | |
| | CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI | R21HD090196 | 93 | 865 | 128,790 | |
| | CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI | 8974D | 93 | 865 | 13,860 | |
| | CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI | 139469 | 93 | 865 | 123,851 | |
| | CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI | 109528 | 93 | 865 | 62,335 | |
| | CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI | 109556 | 93 | 865 | 63,595 | |
| | CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI | 89558 | 93 | 865 | -1 | |
| | CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI | B3915 | 93 | 865 | 9,425 | |
| | CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI | D2617 | 93 | 865 | 103,775 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | 3210050618 | 93 | 865 | 4,304 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | 27007-3200880522:1 | 93 | 865 | 6,613 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | SUB 3200880522 (HD091185) | 93 | 865 | 13,179 | |
| | COLUMBIA UNIVERSITY | 2(GG014111):1 | 93 | 865 | 113,731 | |
| | COLUMBIA UNIVERSITY | 3(GG010395-06) | 93 | 865 | 88,635 | |
| | CORNELL UNIVERSITY | 17071036-02 | 93 | 865 | 18,863 | |
| | CORNELL UNIVERSITY | 15101696-03 | 93 | 865 | 13,712 | |
| | DASCENA, INC. | A132391 | 93 | 865 | 1,307 | |
| | DUKE UNIVERSITY | R01HD081044 | 93 | 865 | 4,641 | |
| | DUKE UNIVERSITY | SUB 197946 215519 (HD 076676) | 93 | 865 | 116 | |
| | DUKE UNIVERSITY | 8715F | 93 | 865 | 44 | |
| | DUKE UNIVERSITY | SUB 235518(HHSN- 2752010000031 | 93 | 865 | 12,814 | |
| | DUKE UNIVERSITY | A030642 | 93 | 865 | 89,439 | |
| | FARUS, LLC | SUB 015-R44HD082898-UCSD1 (HDO | 93 | 865 | 25,768 | |
| | FLINT REHABILITATION DEVICES | 202871-CYC4 | 93 | 865 | 217,353 | |
| | FLINT REHABILITATION DEVICES | FRD-200966-CYC3 | 93 | 865 | 23,039 | |
| | FLORIDA STATE UNIVERSITY | R01776 | 93 | 865 | 8,909 | |
| | FLORIDA STATE UNIVERSITY | R01988-CYC1 | 93 | 865 | 50,961 | |
| | FLORIDA STATE UNIVERSITY | R01990 | 93 | 865 | -2,271 | |
| | FLORIDA STATE UNIVERSITY | SUB R01940 (HD089875) | 93 | 865 | 64,039 | |
| | FLORIDA STATE UNIVERSITY | R02043-CYC1 | 93 | 865 | 200,155 | |
| | GEORGETOWN UNIVERSITY | 412949_GR412948-UCD | 93 | 865 | 81,799 | |
| | GEORGIA INSTITUTE OF TECHNOLOGY | RJ381-G2 | 93 | 865 | 102,877 | |
| | HARVARD PILGRIM HEALTH CARE | AH000583 | 93 | 865 | 113,941 | |
| | HARVARD UNIVERSITY | 87418 | 93 | 865 | 418 | |
| | HARVARD UNIVERSITY | 88389 | 93 | 865 | 12,006 | |
| | HARVARD UNIVERSITY | SUB 114205-1128-5096796 AMP (H | 93 | 865 | 278,840 | |
| | HARVARD UNIVERSITY | SUB 114205-1130-5096798 SMARTT | 93 | 865 | 628,181 | |
| | HARVARD UNIVERSITY | 114205-1386-5096800 | 93 | 865 | 99,780 | |
| | HASKINS LABORATORIES, INC | R01HD086168 | 93 | 865 | 14,308 | 6,056 |
| | HENRY FORD HEALTH SYSTEM | 87645 | 93 | 865 | 245,980 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 0254-3514-4609 | 93 | 865 | -17,649 | |
| | JOHNS HOPKINS UNIVERSITY | 2002294060 | 93 | 865 | 169,639 | |
| | JOHNS HOPKINS UNIVERSITY | 2002295012:4 | 93 | 865 | 144,332 | |
| | KAISER PERMANENTE DIVISION OF RESEARCH | RNG209743-UCSF-01 | 93 | 865 | 298,355 | |
| | MAGEE-WOMENS HOSPITAL, RESEARCH INSTITUTE AND FOUNDATION | 2625:4 | 93 | 865 | 295,723 | |
| | MASSACHUSETTS GENERAL HOSPITAL | 231263 | 93 | 865 | 31,774 | |
| | MASSACHUSETTS GENERAL HOSPITAL | SUB 230910 (HD068250) | 93 | 865 | 274,176 | |
| | MASSACHUSETTS GENERAL HOSPITAL | SUB 231626 (HD093578) | 93 | 865 | 70,904 | |
| | MICHIGAN STATE UNIVERSITY | RC106674A-CYC2 | 93 | 865 | 25,098 | |
| | MU-JHU CARE LIMITED | R01HD080476 | 93 | 865 | 43,913 | |
| | NATIONAL OPINION RESEARCH CENTER | 3629-UCLA:02 | 93 | 865 | 61,392 | |
| | NATIONWIDE CHILDREN'S HOSPITAL | 30002425-05:03 | 93 | 865 | 93,848 | |
| | NATIONWIDE CHILDREN'S HOSPITAL | R01HD091347 | 93 | 865 | 39,250 | |
| | NEW YORK UNIVERSITY | 19-A0-00-1002957-CYC1 | 93 | 865 | 28,941 | |
| | NORTHWESTERN UNIVERSITY | 60047828UCI-CYC1 | 93 | 865 | 5,848 | |
| | OHIO STATE UNIVERSITY | 60061268 | 93 | 865 | 46,509 | |
| | OKLAHOMA STATE UNIVERSITY | 1-571918-UCSF | 93 | 865 | 29,433 | |
| | OREGON HEALTH & SCIENCE UNIVERSITY | 9009028_UCLA:7 | 93 | 865 | 5,661 | |
| | OREGON HEALTH & SCIENCE UNIVERSITY | 1013129_UCLA | 93 | 865 | 262,941 | |
| | PACIFIC INSTITUTE FOR RESEARCH AND EVALUATION | 20153450 (HD083399) | 93 | 865 | 28,696 | |
| | PENNSYLVANIA STATE UNIVERSITY | 5581-UCI-DHHS-4807-CYC2 | 93 | 865 | 2,387 | |
| | PENNSYLVANIA STATE UNIVERSITY | 5970-UCLA-DHHS-0659 | 93 | 865 | 87,348 | |
| | PRINCETON UNIVERSITY | SUB0000136:2 | 93 | 865 | 64,638 | |
| | RADY CHILDREN'S HOSPITAL-SAN DIEGO | SUB 3282-UCSD-S1(HD077693) | 93 | 865 | 11,312 | |
| | RTI HEALTH SOLUTIONS | SUB NONE (HD054214) | 93 | 865 | 156,231 | 132,840 |
| | RTI INTERNATIONAL | 89939 | 93 | 865 | 47,847 | 18,434 |
| | RTI INTERNATIONAL | 20163942 | 93 | 865 | 3,219 | |
| | RTI INTERNATIONAL | 79809 | 93 | 865 | -739 | |

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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|---|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | RTI INTERNATIONAL | 88782 | 93 | 865 | | 3,149 |
| | SEATTLE CHILDREN'S HOSPITAL, RESEARCH AND FOUNDATION | 11192SUB | 93 | 865 | | 900 |
| | SEATTLE CHILDREN'S HOSPITAL, RESEARCH AND FOUNDATION | 11305SUB:2 | 93 | 865 | | 39,203 |
| | SEATTLE CHILDREN'S HOSPITAL, RESEARCH AND FOUNDATION | 11625SUB:1 | 93 | 865 | | 178,433 |
| | SEATTLE CHILDREN'S HOSPITAL, RESEARCH AND FOUNDATION | 139502 | 93 | 865 | | 52,396 |
| | SEATTLE CHILDREN'S HOSPITAL, RESEARCH AND FOUNDATION | 11447SUB:1 | 93 | 865 | | 105 |
| | SEQUOIA FOUNDATION | 9098 UCSF | 93 | 865 | | 1,926 |
| | STANFORD UNIVERSITY | 61269607120188 | 93 | 865 | | 326,712 |
| | STANFORD UNIVERSITY | 61245596-117723 | 93 | 865 | | 8,591 |
| | STANFORD UNIVERSITY | 61269608-120188 | 93 | 865 | | 93,710 |
| | STANFORD UNIVERSITY | 61538053-113992 | 93 | 865 | | -526 |
| | STANFORD UNIVERSITY | 61704698-122525 | 93 | 865 | | 295,541 |
| | STANFORD UNIVERSITY | 61764715-116231 | 93 | 865 | | 125,603 |
| | STANFORD UNIVERSITY | 01HD094634 | 93 | 865 | | 138,720 |
| | STANFORD UNIVERSITY | 61780773-117723 | 93 | 865 | | 235,156 |
| | STANFORD UNIVERSITY | A16-0544-003 | 93 | 865 | | 35,217 |
| | STELLENBOSCH UNIVERSITY | S004190 / 55811 | 93 | 865 | | 89,439 |
| | STELLENBOSCH UNIVERSITY | 8729D | 93 | 865 | | 63,210 |
| | THE UNIVERSITY OF ALABAMA (TUSCALOOSA) | 87758 | 93 | 865 | | -832 |
| | THE UNIVERSITY OF ALABAMA AT BIRMINGHAM | SUB 000504713-012 (HD061222) | 93 | 865 | | 49,400 |
| | TULANE UNIVERSITY | SUB TUL-HSC-553714-15/16 (HD52 | 93 | 865 | | 15,629 |
| | TULANE UNIVERSITY | SUB TUL-HSC-553718-15/16 (HD05 | 93 | 865 | | 25,358 |
| | TULANE UNIVERSITY | B6478 | 93 | 865 | | -4 |
| | TULANE UNIVERSITY | TUL-HSC-555751-17/18 | 93 | 865 | | 16,961 |
| | UNIVERSITY OF ARIZONA | 356680 | 93 | 865 | | 234,097 |
| | UNIVERSITY OF CHICAGO | FP036878-03-PR-CR-04-CYC1 | 93 | 865 | | 150,670 |
| | UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE) | 14-036-002:6 | 93 | 865 | | 55,154 |
| | UNIVERSITY OF HAWAII AT MANOA | KA1186 (HD084633) | 93 | 865 | | 47,276 |
| | UNIVERSITY OF ILLINOIS | 092492-17165-CYC1 | 93 | 865 | | 27,451 |
| | UNIVERSITY OF KANSAS/KU CENTER FOR RESEARCH, INC. | ZAC00080 | 93 | 865 | | 20,744 |
| | UNIVERSITY OF MICHIGAN | R01HD08523303 | 93 | 865 | | 126,700 |
| | UNIVERSITY OF MINNESOTA | H006124302 | 93 | 865 | | 10,649 |
| | UNIVERSITY OF NEVADA, LAS VEGAS/UNLV RESEARCH FOUNDATION | 875A3 | 93 | 865 | | -862 |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | SUB 5106227 (HD086139) | 93 | 865 | | 18,613 |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 58355 | 93 | 865 | | 1,465 |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | SUB 5109010 (HD089880) | 93 | 865 | | 114,836 |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5105863:1 | 93 | 865 | | 429,973 |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5109045:1 | 93 | 865 | | 66,529 |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5111108 | 93 | 865 | | 27,833 |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5111126 | 93 | 865 | | 16,178 |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5111132 | 93 | 865 | | 38,421 |
| | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 5113154 | 93 | 865 | | 27,674 |
| | UNIVERSITY OF NOTRE DAME (INCL GEM) | 203344UCD | 93 | 865 | | 25,461 |
| | UNIVERSITY OF PENNSYLVANIA | 572609 | 93 | 865 | | 2,605 |
| | UNIVERSITY OF PITTSBURGH | 0048860 (126873-15)-CYC1 | 93 | 865 | | 21,760 |
| | UNIVERSITY OF PITTSBURGH | 59286 | 93 | 865 | | -38 |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 009264 | 93 | 865 | | 68,408 |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 60664307:3 | 93 | 865 | | 30,341 |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 87892310-CYC2 | 93 | 865 | | 51,767 |
| | UNIVERSITY OF TENNESSEE | 008591 | 93 | 865 | | 51,279 |
| | UNIVERSITY OF TEXAS-SOUTHWESTERN MEDICAL CENTER AT DALLAS | 006993 | 93 | 865 | | 473,158 |
| | UNIVERSITY OF TEXAS-SOUTHWESTERN MEDICAL CENTER AT DALLAS | GMO 171010 | 93 | 865 | | 470,740 |
| | UNIVERSITY OF TEXAS-SOUTHWESTERN MEDICAL CENTER AT DALLAS | SUB GMO 190904(HD094395) | 93 | 865 | | 55,668 |
| | UNIVERSITY OF UTAH | 10034012-UCSF | 93 | 865 | | 65,430 |
| | UNIVERSITY OF UTAH | 18-25914 | 93 | 865 | | 3,167 |
| | UNIVERSITY OF UTAH | C0098 | 93 | 865 | | 6,930 |
| | UNIVERSITY OF VIRGINIA | R01HD087413 | 93 | 865 | | 3,455 |
| | UNIVERSITY OF WASHINGTON | UWSC9574-CYC1 | 93 | 865 | | 24,457 |
| | UNIVERSITY OF WASHINGTON | UWSC9985 | 93 | 865 | | 15,639 |
| | VANDERBILT UNIVERSITY MEDICAL CENTER | VUMC 58697-CYC3 | 93 | 865 | | 47,095 |
| | WAYNE STATE UNIVERSITY | 8754F | 93 | 865 | | -327 |
| | WAYNE STATE UNIVERSITY | WSU17122 | 93 | 865 | | 24,883 |
| | WESTAT | 6579-S45 | 93 | 865 | | 217,855 |
| | WESTAT | 79227 | 93 | 865 | | -8,745 |
| | WITS HEALTH CONSORTIUM (PTY) LIMITED | D1404360-01 | 93 | 865 | | 11,709 |
| | YALE UNIVERSITY | GK000090 (CON-80000365) | 93 | 865 | | 70,963 |
| | YALE UNIVERSITY | GR101949 (CON-80001116) | 93 | 865 | | 184,830 |
| | YALE UNIVERSITY | M14A12052 (A10949) | 93 | 865 | | 22,545 |
| | YALE UNIVERSITY | B7756 | 93 | 865 | | 20,342 |
| | YALE UNIVERSITY | B7759 | 93 | 865 | | 1,743 |

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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|--|--|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | YESHIVA UNIVERSITY | 310897-4 | 93 | 865 | 80,620 | |
| | THE GAIA MEDICAL INSTITUTE LLC | SUB NONE (HD097039) | 93 | 865 | 2,935 | |
| | KAISER FOUNDATION RESEARCH INSTITUTION | R01HD095128 | 93 | 865 | 48,873 | |
| | CHILDREN'S NATIONAL HEALTH SYSTEM | 30002427 | 93 | 865 | 40,498 | |
| | CHILDREN'S NATIONAL HEALTH SYSTEM | 58309 | 93 | 865 | -15,408 | |
| | PATRICIA SULLIVAN CONSULTING | P0515039 | 93 | 865 | 482,681 | |
| | PHOENIX NEST, INC. | SUB 20173598 (HD092110) | 93 | 865 | 34,159 | |
| | NORTHSHORE UNIVERSITY HEALTHSYSTEM RESEARCH INST | 58094 | 93 | 865 | 58,990 | |
| | SHARP HEALTHCARE FOUNDATION | R01HD096023 | 93 | 865 | 567 | |
| | SHARP HEALTHCARE FOUNDATION | SUB #M-R012018 (HD096023) | 93 | 865 | 73,212 | |
| | UNIVERSITY OF KANSAS MEDICAL CENTER RESEARCH INSTITUTE, INC. | SUB P01000944164 (HD093933) | 93 | 865 | 3,439 | |
| | | | | | 12,342,985 | 157,330 |
| | Passthrough/Partial Passthrough | | | | | |
| | AFASCI, INC. | 201700586 | 93 | 866 | 251,700 | |
| | BOSTON UNIVERSITY | 4500001840 | 93 | 866 | 299,210 | |
| | BOSTON UNIVERSITY | 4500002826 | 93 | 866 | 26,596 | |
| | BRIGHAM AND WOMEN'S HOSPITAL | 111014-6 | 93 | 866 | 178,930 | |
| | BRIGHAM AND WOMEN'S HOSPITAL | 81605 | 93 | 866 | -3,515 | |
| | BRIGHAM AND WOMEN'S HOSPITAL | 8784E | 93 | 866 | 3,994 | |
| BROWN UNIVERSITY | 00000843 | 93 | 866 | 155,910 | | |
| BROWN UNIVERSITY | R01AG051170 | 93 | 866 | 89,462 | | |
| BUCK INSTITUTE FOR RESEARCH ON AGING | SA20026-UC | 93 | 866 | 24,745 | | |
| BUCK INSTITUTE FOR RESEARCH ON AGING | SA23061 | 93 | 866 | 30,980 | | |
| CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE | 280201009-S200 | 93 | 866 | 46,408 | | |
| CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE | 2803232-S153 | 93 | 866 | 82,279 | | |
| CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE | 280201015-S215 | 93 | 866 | 44,613 | | |
| CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE | 280201019-S236 | 93 | 866 | 222,382 | | |
| CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE | A8392 | 93 | 866 | -6,907 | | |
| CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE | U19AG023122 | 93 | 866 | 554,144 | | |
| CHAPMAN UNIVERSITY | 2018-UCSB-AG054442 | 93 | 866 | 186,205 | | |
| COLUMBIA UNIVERSITY | 3(GG012904-01) | 93 | 866 | -28,566 | | |
| COLUMBIA UNIVERSITY | 1(GG010471-09)-CYC1 | 93 | 866 | 1,293,724 | | |
| COLUMBIA UNIVERSITY | 1(GG013394-01)-CYC1 | 93 | 866 | 46,832 | | |
| COLUMBIA UNIVERSITY | 2(GG010471-11)-CYC1 | 93 | 866 | 127,825 | | |
| DUKE UNIVERSITY | R01AG046171 | 93 | 866 | 39,025 | | |
| EMORY UNIVERSITY | A029539-5 | 93 | 866 | -53,625 | | |
| FLORIDA STATE UNIVERSITY | R01AG053297 | 93 | 866 | 21,439 | | |
| FRED HUTCHINSON CANCER RESEARCH CENTER | 871G9 | 93 | 866 | 10,886 | | |
| FRED HUTCHINSON CANCER RESEARCH CENTER | SUB 0000940803 (AG048209) | 93 | 866 | 41,166 | | |
| GLADSTONE INSTITUTES | R2468-A | 93 | 866 | 341,731 | | |
| GLADSTONE INSTITUTES | R2485-A | 93 | 866 | 102,167 | | |
| GLADSTONE INSTITUTES | R2485-B | 93 | 866 | 26,492 | | |
| HARVARD UNIVERSITY | 116360-5100251-PROJECT 1 | 93 | 866 | 29,059 | | |
| HARVARD UNIVERSITY | 116362-5111695 | 93 | 866 | 48,251 | | |
| HARVARD UNIVERSITY | 116528-5061518-7 | 93 | 866 | 23,646 | | |
| HEBREW SENIORLIFE INC. | 10.10.91561 | 93 | 866 | 18,396 | | |
| HEBREW SENIORLIFE INC. | 91511 | 93 | 866 | 11,354 | | |
| ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 0255-1211-4609 | 93 | 866 | 19,606 | | |
| INDIAN HEALTH COUNCIL, INC. | SUB NONE (HS008101) | 93 | 866 | 545 | | |
| INDIANA UNIVERSITY | IN4683234UCSF | 93 | 866 | 99,745 | | |
| INDIANA UNIVERSITY | IN-4683237-UCSF | 93 | 866 | 11,395 | | |
| INDIANA UNIVERSITY | IN4683237UCSF | 93 | 866 | 244,657 | | |
| INDIANA UNIVERSITY | IN4683234UCSF CS | 93 | 866 | 3,500 | | |
| INNOSENSE LLC | IS-203749-CYC4 | 93 | 866 | 4,727 | | |
| INSTITUTE FOR MOLECULAR MEDICINE, INC. (CALIFORNIA) | 4001-UCI-DHC-2018-CYC1 | 93 | 866 | 110,860 | | |
| INSTITUTE FOR MOLECULAR MEDICINE, INC. (CALIFORNIA) | 4001-UCI-MBJ-2018-CYC1 | 93 | 866 | 127,050 | | |
| JOHNS HOPKINS UNIVERSITY | 2002476658-04 | 93 | 866 | 25,915 | | |
| JOHNS HOPKINS UNIVERSITY | 2004171429 | 93 | 866 | 104,445 | | |
| KAISER FOUNDATION HEALTH PLAN OF WASHINGTON | SUB 2015168560 (AG006781) | 93 | 866 | 57,328 | | |
| KAISER PERMANENTE DIVISION OF RESEARCH | RNG200560-02UCSF | 93 | 866 | -5,691 | | |
| KAISER PERMANENTE DIVISION OF RESEARCH | RNG209188-UCD | 93 | 866 | 52,976 | | |
| KAISER PERMANENTE DIVISION OF RESEARCH | RNG209188-UCSF | 93 | 866 | 1,130 | | |
| KAISER PERMANENTE DIVISION OF RESEARCH | 88A48 | 93 | 866 | -108,212 | | |
| KAISER PERMANENTE DIVISION OF RESEARCH | RNG209404-UCSF | 93 | 866 | -7,503 | | |
| MAGEE-WOMENS HOSPITAL, RESEARCH INSTITUTE AND FOUNDATION | 5246_UCSF | 93 | 866 | 68,332 | | |
| MAGEE-WOMENS HOSPITAL, RESEARCH INSTITUTE AND FOUNDATION | 5246-CYC3 | 93 | 866 | 80,709 | | |
| MASSACHUSETTS GENERAL HOSPITAL | 224849-5 | 93 | 866 | 8,463 | | |
| MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH | 63788300 | 93 | 866 | 1,167,671 | | |
| MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH | CSF-234899 | 93 | 866 | 96,136 | | |

UNIVERSITY OF CALIFORNIA
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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|--|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | NATIONAL BUREAU OF ECONOMIC RESEARCH, INC | 79355 | 93 | 866 | 48,186 | |
| | | 96467 | 93 | 866 | 5 | |
| | | 87465 | 93 | 866 | -410,590 | |
| | | WE12015-02 | 93 | 866 | 169,397 | |
| | | WE12015-07 | 93 | 866 | 459,611 | |
| | | WE12015-18 | 93 | 866 | 142,606 | |
| | | U19AG024904 | 93 | 866 | 124,862 | |
| | | 60047861UCSF | 93 | 866 | 115,522 | |
| | | SUB 60048330 UCSD (AG057441) | 93 | 866 | 54,083 | |
| | | 60050621 UCSF | 93 | 866 | 205,792 | |
| | | SUB 60051680 UCSD (AG060426) | 93 | 866 | 35,475 | |
| | | 60047943 UCLA:02 | 93 | 866 | 14,535 | |
| | | SUB 60051415(AG050725) | 93 | 866 | 24,336 | |
| | | SUB 21603-02 (AG053983) | 93 | 866 | 100,568 | |
| | | 21704-03-CYC1 | 93 | 866 | 126,156 | |
| | | SUB 21704-02 (AG056499) | 93 | 866 | 89,282 | |
| | | 1R01AG060726 | 93 | 866 | 1,691 | |
| | | 5296-UCM-DHHS-2167 | 93 | 866 | -472 | |
| | | 5812-UCI-UWM-K562-CYC1 | 93 | 866 | 17,947 | |
| | | 929-UCM-NIA-2167 | 93 | 866 | 17,913 | |
| | | 9920190023-CYC1 | 93 | 866 | 1,784 | |
| | | 010663 | 93 | 866 | 14,571 | |
| | | 010324 | 93 | 866 | 37,995 | |
| | | 0460-CYC1 | 93 | 866 | 96,016 | |
| | | SUB P1019113 (AG062232) | 93 | 866 | 94,900 | |
| | | PO35208-CYC1 | 93 | 866 | 104,458 | |
| | | SUB 61089692-112006 (AG047366) | 93 | 866 | 12,606 | |
| | | 61586177-126873 | 93 | 866 | 33,954 | |
| | | 61626840-127916-CYC1 | 93 | 866 | 139,986 | |
| | | SUB: 61626841-127916 (AG057707) | 93 | 866 | 91,447 | |
| | | 89659 | 93 | 866 | 4,432 | |
| | | 007915 | 93 | 866 | 101,942 | |
| | | 010412 | 93 | 866 | 55,379 | |
| | | SUB 5-53402 (AG057459) | 93 | 866 | 45,074 | |
| | | 87981 | 93 | 866 | -20,427 | |
| | | 310311 | 93 | 866 | 371,180 | |
| | | R01AG054621 | 93 | 866 | 31,466 | |
| | | FP0567154R37AG033590 | 93 | 866 | 116,094 | |
| | | FP056715-C:3 | 93 | 866 | 20,011 | |
| | | FY18.792.002 | 93 | 866 | 54,585 | |
| | | 87BC5 | 93 | 866 | 6,094 | |
| | | FY19.830.004 | 93 | 866 | 24,308 | 18,792 |
| | | SUB 17170 (AG010161) | 93 | 866 | 12,114 | |
| | | SUB OSP2018054 (AG045050) | 93 | 866 | 17,672 | |
| | | SPC-000392 | 93 | 866 | 309,565 | |
| | | SUB SPC-000546 (AG056952) | 93 | 866 | 15,585 | |
| | | 3003282032 | 93 | 866 | 16,096 | |
| | | 3002601380:9 | 93 | 866 | 192,617 | |
| | | A9473 | 93 | 866 | -1,750 | |
| | | U01AG012495 | 93 | 866 | 57,486 | 21,872 |
| | | U01AG017719 | 93 | 866 | 3,247 | |
| | | SUB RF00016-2017-0033(AG051848 | 93 | 866 | 124,864 | |
| | | SUB RF00110-2018-0022(AG058252 | 93 | 866 | 229,192 | |
| | | RF00105-2018-0317 | 93 | 866 | 31,290 | |
| | | SUB RF00029-2019-0045 (AG05184 | 93 | 866 | 99,658 | |
| | | SUB RF00032-2019-0101 (AG05853 | 93 | 866 | 20,797 | |
| | | 567734 | 93 | 866 | 13,470 | |
| | | 571660 | 93 | 866 | 398,859 | |
| | | 83002 | 93 | 866 | -661 | |
| | | 83202 | 93 | 866 | -31,939 | |
| | | 89075 | 93 | 866 | 970 | |
| | | 89792 | 93 | 866 | -12,320 | |
| | | SUB 576372 (AG061173) | 93 | 866 | 129,280 | |
| | | 0046842 (126362-2)-3 | 93 | 866 | 219,965 | |
| | | 0061853 (131905-1)-CYC1 | 93 | 866 | 2,772 | |
| | | 80876 | 93 | 866 | 117,692 | |
| | | 416927-CYC4 | 93 | 866 | 73,149 | |
| | | 1253-1118-00-A-CYC3 | 93 | 866 | 202,139 | |
| | | 6118-1082-00-C | 93 | 866 | 75,674 | |
| | | 008717 | 93 | 866 | 38,583 | |

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|---|--|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | UNIVERSITY OF SOUTHERN CALIFORNIA | 64911596/10422190-CYC4 | 93 | 866 | 3,099 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 75696718 | 93 | 866 | -35,851 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 79685690 | 93 | 866 | 141,972 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | SUB 79634313 (WEI2015-01) | 93 | 866 | 84,345 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | SUB 80648183(AG037985) | 93 | 866 | 6,474 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 75691348/A4 NIH | 93 | 866 | 18,602 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 873BD | 93 | 866 | -4,059 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 873GC | 93 | 866 | 1,507 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 93306651 | 93 | 866 | -958 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | SUB 103366912(AG047992) | 93 | 866 | 34,736 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 010210 | 93 | 866 | 50,412 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 010298 | 93 | 866 | 52,528 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 105741448-CYC1 | 93 | 866 | 323,246 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 105751256 | 93 | 866 | 93,345 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 105828736 | 93 | 866 | 100,493 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 106132015 | 93 | 866 | 83,863 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 106529702-CYC1 | 93 | 866 | 93,977 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 107784754-CYC1 | 93 | 866 | 89,543 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 109150990-CYC1 | 93 | 866 | 29,747 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 54096768:4 | 93 | 866 | 39,916 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 58867 | 93 | 866 | 1,647 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 75685631/106050036:02 | 93 | 866 | 7,223 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 78389953:2 | 93 | 866 | 37,723 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 78802 | 93 | 866 | -41 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 79376 | 93 | 866 | -18 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 79483 | 93 | 866 | -56,138 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 79635074:01 | 93 | 866 | 28,630 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 87544370-CYC1 | 93 | 866 | 93,431 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 96456291 | 93 | 866 | 15,470 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 96477971:1 | 93 | 866 | 18,015 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | SUB 107080396(AG055367) | 93 | 866 | 135,426 | 36,307 |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | SUB 109161761 (AG059329) | 93 | 866 | 25,902 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | SUB 112743702 (AG060470) | 93 | 866 | 38,776 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | U24AG057437 | 93 | 866 | 91,563 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 103118915:1 | 93 | 866 | 442,604 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 80108370:4 | 93 | 866 | 66,786 | |
| | UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO | R01AG054076-03 | 93 | 866 | 146,090 | |
| | UNIVERSITY OF TEXAS MEDICAL BRANCH AT GALVESTON | 18-84378-3-CYC1 | 93 | 866 | 16,525 | |
| | UNIVERSITY OF TEXAS SYSTEM | 18-018:1 | 93 | 866 | 16,287 | |
| | UNIVERSITY OF TEXAS-AUSTIN | UTA16-000684-CYC1 | 93 | 866 | 20,220 | |
| | UNIVERSITY OF UTAH | R01AG055606 | 93 | 866 | -5,132 | |
| | UNIVERSITY OF UTAH | 79577 | 93 | 866 | 16,972 | |
| | UNIVERSITY OF VERMONT | 30340 SUB0002 UCSF | 93 | 866 | 7,469 | |
| | UNIVERSITY OF VERMONT | SUB 32667SUB53009(AG059451) | 93 | 866 | 5,419 | |
| | UNIVERSITY OF WASHINGTON | 762200 | 93 | 866 | 27,746 | |
| | UNIVERSITY OF WASHINGTON | SUB 752710 (AG16976) | 93 | 866 | 38,380 | |
| | UNIVERSITY OF WASHINGTON | SUB UWSC10150 (AG056711) | 93 | 866 | 67,291 | |
| | UNIVERSITY OF WASHINGTON | UWSC9789 | 93 | 866 | 14,174 | |
| | UNIVERSITY OF WASHINGTON | SUB UWSC10651 (AG016976) | 93 | 866 | 24,878 | |
| | UNIVERSITY OF WASHINGTON | UWSC10655 | 93 | 866 | 43,510 | |
| | UNIVERSITY OF WASHINGTON | UWSC7732-CYC5 | 93 | 866 | 26,592 | |
| | UNIVERSITY OF WISCONSIN-MADISON | 674K660 | 93 | 866 | 2,423 | |
| | UNIVERSITY OF WISCONSIN-MADISON | SUB 793K041 (AG057784) | 93 | 866 | 59,608 | |
| | UNIVERSITY OF WISCONSIN-MADISON | 708K363:2 | 93 | 866 | 90,937 | |
| | UNIVERSITY OF WISCONSIN-MADISON | 832K871 | 93 | 866 | 134,806 | |
| | UNIVERSITY OF WISCONSIN-MADISON | 834K190 | 93 | 866 | 823,986 | |
| | UNIVERSITY OF WISCONSIN-MADISON | 834K234 | 93 | 866 | 50,611 | |
| | UNIVERSITY OF WISCONSIN-MADISON | 809K012:1 | 93 | 866 | 38,798 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA IX (AG053325) | 93 | 866 | 25,725 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 83500 | 93 | 866 | -474 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | 83502 | 93 | 866 | -7,995 | |
| | VIRGINIA COMMONWEALTH UNIVERSITY | FP00001819_SA001:2 | 93 | 866 | 73,102 | |
| | WAKE FOREST UNIVERSITY | 88650 | 93 | 866 | -31,095 | |
| | WAKE FOREST UNIVERSITY | SUB WFUHS 118269 (AG060897) | 93 | 866 | 58,926 | |
| | WAKE FOREST UNIVERSITY | WFUHS 551083 | 93 | 866 | 12,636 | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | 88601 | 93 | 866 | -151,114 | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | SUB WU-14-333 (AG032438) | 93 | 866 | 15,274 | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | SUB WU-15-135 (AG049369) | 93 | 866 | 1,170,907 | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | SUB WU-19-168(AG049369) | 93 | 866 | 32,258 | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | WU-18-425 | 93 | 866 | 8 | |

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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---|--|--|----------------|-----------|----------------------|------------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | WASHINGTON UNIVERSITY IN ST. LOUIS | WU-19-20 | 93 | 866 | 962,306 | | |
| | YALE UNIVERSITY | GR101447 (CON-80001091):01 | 93 | 866 | 128,901 | | |
| | YALE UNIVERSITY | GR104659(CON-80001481) | 93 | 866 | 23,333 | | |
| | YESHIVA UNIVERSITY | 57606 | 93 | 866 | 839 | | |
| | KAISER FOUNDATION RESEARCH INSTITUTION | RNG29404-UCI-CYC1 | 93 | 866 | 156,895 | | |
| | KAISER FOUNDATION RESEARCH INSTITUTION | 76865 | 93 | 866 | -894 | | |
| | UNIVERSITY OF TORONTO | UOFT-209025-CYC1 | 93 | 866 | 2,109 | | |
| | VIVREON BIOSCIENCES, LLC | VB-211713-CYC1 | 93 | 866 | 121,592 | | |
| | KECK GRADUATE INSTITUTE OF APPLIED LIFE SCIENCES | GR750000UCI-CYC2 | 93 | 866 | 6,818 | | |
| | SCRIPPS RESEARCH INSTITUTE (FLORIDA) | 86878 | 93 | 866 | 42,649 | | |
| | TEXAS A&M HEALTH SCIENCE CENTER | SUB M1703563 (AG056574) | 93 | 866 | 21,730 | | |
| | AMYDIS DIAGNOSTICS | SUB 20184137 (AG058350) | 93 | 866 | 169,725 | | |
| | AMYDIS DIAGNOSTICS | SUB 20190908(AG057421) | 93 | 866 | 70,779 | | |
| | ELIMU INFORMATICS, INC. | SUB 37 (AG058357) | 93 | 866 | 34,477 | | |
| | SPINOGENIX, INC. | SI-209411-CYC1 | 93 | 866 | 143,036 | | |
| | | | | | 18,485,425 | 76,971 | |
| | | Passthrough/Partial Passthrough | | | | | |
| | | BAYLOR COLLEGE OF MEDICINE | 7000000842 | 93 | 867 | 581,131 | |
| | | BECKMAN RESEARCH INSTITUTE OF THE CITY OF HOPE | 008636 | 93 | 867 | 4,757 | |
| | | CALIFORNIA INSTITUTE OF TECHNOLOGY | 58016 | 93 | 867 | 373 | |
| | | CALIFORNIA INSTITUTE OF TECHNOLOGY | S378172:2 | 93 | 867 | 84,861 | |
| | | CASE WESTERN RESERVE UNIVERSITY | RES512338-CYC1 | 93 | 867 | 28 | |
| | | CASE WESTERN RESERVE UNIVERSITY | RES514042-CYC1 | 93 | 867 | 28,820 | |
| | | CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI | B1684 | 93 | 867 | -43,578 | |
| | | CHILDREN'S HOSPITAL OF PHILADELPHIA | 3209850813 | 93 | 867 | 6,032 | |
| | | CORNELL UNIVERSITY | R01EY027036 | 93 | 867 | 202,196 | |
| | | CORNELL UNIVERSITY | 161219952 | 93 | 867 | 50,864 | |
| | | CORNELL UNIVERSITY | 18304502 | 93 | 867 | 146,835 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 0255-0731-4609 | 93 | 867 | 72,897 | | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 0255-7713-4609 | 93 | 867 | 47,417 | | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | U10EY025990 | 93 | 867 | 172,731 | | |
| | JAEB CENTER FOR HEALTH RESEARCH, INC. | 06002685 | 93 | 867 | 785 | | |
| | JAEB CENTER FOR HEALTH RESEARCH, INC. | 201603120 | 93 | 867 | 7,169 | | |
| | JAEB CENTER FOR HEALTH RESEARCH, INC. | SU10 EY011751-20 | 93 | 867 | 20,270 | | |
| | JAEB CENTER FOR HEALTH RESEARCH, INC. | B0015 | 93 | 867 | 1,057 | | |
| | JAEB CENTER FOR HEALTH RESEARCH, INC. | SUB NONE (EY11751) | 93 | 867 | 2,903 | | |
| | JAEB CENTER FOR HEALTH RESEARCH, INC. | C02/U10 EY11751 | 93 | 867 | 3,461 | | |
| | JAEB CENTER FOR HEALTH RESEARCH, INC. | U10 EY11751 | 93 | 867 | 2,526 | | |
| | JOHNS HOPKINS UNIVERSITY | 2002473559 | 93 | 867 | 8,325 | | |
| | JOHNS HOPKINS UNIVERSITY | 2002507432:04 | 93 | 867 | 28,799 | | |
| | JOHNS HOPKINS UNIVERSITY | 79665 | 93 | 867 | -799 | | |
| | JOHNS HOPKINS UNIVERSITY | A9888 | 93 | 867 | 16,719 | | |
| | MEDICAL COLLEGE OF WISCONSIN | 1U24EY029891-01 | 93 | 867 | 186,773 | | |
| | PENNSYLVANIA STATE UNIVERSITY | U10EY023533 | 93 | 867 | 3,119 | | |
| | PENNSYLVANIA STATE UNIVERSITY | UCDEY023533 | 93 | 867 | 137 | | |
| | PENNSYLVANIA STATE UNIVERSITY | 80953 | 93 | 867 | 54,213 | | |
| | STANFORD UNIVERSITY | 63405 | 93 | 867 | -9 | | |
| | STANFORD UNIVERSITY | 63344 | 93 | 867 | 6,581 | | |
| | STANFORD UNIVERSITY | A00-1375-006 | 93 | 867 | 28,465 | | |
| | STANFORD UNIVERSITY | R01EY028287 | 93 | 867 | 62,967 | | |
| | THE SCRIPPS RESEARCH INSTITUTE | SUB 5-53499(EY028642) | 93 | 867 | 39,605 | | |
| | THE SCRIPPS RESEARCH INSTITUTE | 5-27164 | 93 | 867 | 157,126 | | |
| | THE SCRIPPS RESEARCH INSTITUTE | 88612 | 93 | 867 | 1,537 | | |
| | THE UNIVERSITY OF ALABAMA AT BIRMINGHAM | SUB 000512884 (EY026574) | 93 | 867 | 396,770 | | |
| | UNIVERSITY OF IOWA | 89143 | 93 | 867 | 443 | | |
| | UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION, INC. | ULRF 17-0884-01-CYC2 | 93 | 867 | 110,166 | | |
| | UNIVERSITY OF MICHIGAN | 3004645125:1 | 93 | 867 | 143,303 | | |
| | UNIVERSITY OF MICHIGAN | SUB 3004210904(EY026641) | 93 | 867 | 4,682 | | |
| | UNIVERSITY OF OKLAHOMA | SUB RS20151124 (EY025947) | 93 | 867 | -13,773 | | |
| | UNIVERSITY OF ROCHESTER | 417376G / UR FAO GR510807 | 93 | 867 | 35,724 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 54529007 | 93 | 867 | 80,647 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 16935UCLA:1 | 93 | 867 | 4,844 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 72730838-CYC4 | 93 | 867 | 100,125 | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 79508336:1 | 93 | 867 | 188,800 | | |
| | UNIVERSITY OF TEXAS-AUSTIN | UTA18-000547 | 93 | 867 | 20,365 | | |
| | UNIVERSITY OF WASHINGTON | UWSC7854 | 93 | 867 | 236,407 | | |
| | UNIVERSITY OF WASHINGTON | UWSC10239 | 93 | 867 | 78,477 | | |
| | UNIVERSITY OF WASHINGTON | U01HL130114 | 93 | 867 | 19,244 | | |
| | VALITOR, INC. | A128186 | 93 | 867 | -1,816 | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---|--|--|---------------------------|-----------|----------------------|---------------------------------|--------|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | WASHINGTON UNIVERSITY IN ST. LOUIS | SUB WU-16-120 (EY025181) | 93 | 867 | 15,908 | | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | SUB WU-16-20 (EY025183) | 93 | 867 | 79,787 | | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | WU-16-119 | 93 | 867 | 664 | | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | WU1871 | 93 | 867 | 340,758 | | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | WU-15-230-MOD-3 | 93 | 867 | 244,711 | | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | WU-16-121-MOD-3 | 93 | 867 | 4,186 | | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | WU-16-122-MOD-3/2934575E | 93 | 867 | 9,596 | | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | WU-19-248-CYC1 | 93 | 867 | 95,058 | | |
| | YALE UNIVERSITY | GR100289-CYC2 | 93 | 867 | 65,940 | | |
| | UNIVERSITY OF LOUISVILLE | ULRF 17-0884-02:1 | 93 | 867 | 132,086 | | |
| | LINEAGE CELL THERAPEUTICS, INC. | BTI-207738-CYC2 | 93 | 867 | 228,311 | | |
| | | | | | 4,608,503 | | |
| | Passthrough/Partial Passthrough | STANFORD UNIVERSITY | R01EB026094 | 93 | 876 | 91,329 | 91,329 |
| | Passthrough/Partial Passthrough | DREXEL UNIVERSITY | 800096 | 93 | 877 | 18,259 | 18,259 |
| | Passthrough/Partial Passthrough | CHARLES R. DREW UNIVERSITY OF MEDICINE AND SCIENCE | 16-17-LO-G0075000-UCLA:01 | 93 | 879 | 82,018 | |
| | COLUMBIA UNIVERSITY | 1(GG012264) | 93 | 879 | 105,441 | | |
| | NORTHWESTERN UNIVERSITY | A18-0375-001 | 93 | 879 | 18,972 | | |
| | UNIVERSITY OF UTAH | 89197 | 93 | 879 | -5,174 | | |
| | | | | | 201,257 | | |
| Passthrough/Partial Passthrough | CALIFORNIA DEPARTMENT OF INSURANCE | 160351A | 93 | 881 | 117,545 | 117,545 | |
| Passthrough/Partial Passthrough | WASHINGTON UNIVERSITY IN ST. LOUIS | SUB-WU-17-344 (P01AG051443) | 93 | 886 | 89,861 | 89,861 | |
| Passthrough/Partial Passthrough | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 1810056 | 93 | 898 | 64,519 | 64,519 | |
| Passthrough/Partial Passthrough | LOS ANGELES COUNTY DEPARTMENT OF MENTAL HEALTH | PH-003304 | 93 | 914 | 694,907 | 694,907 | |
| Passthrough/Partial Passthrough | BOSTON UNIVERSITY | 4500002529 | 93 | 928 | 21,737 | 21,737 | |
| Passthrough/Partial Passthrough | INDIAN HEALTH COUNCIL, INC. | SUB 102313 (IHS0081-01-00) | 93 | 933 | 32,071 | 32,071 | |
| Passthrough/Partial Passthrough | FHI 360 | 953/0080.0142:11 | 93 | 936 | 33,035 | 33,035 | |
| Passthrough/Partial Passthrough | CHARLES R. DREW UNIVERSITY OF MEDICINE AND SCIENCE | 58114 | 93 | 937 | -25,613 | -25,613 | |
| Passthrough/Partial Passthrough | HELUNA HEALTH | 12U65PS004454 | 93 | 939 | 504,111 | 504,111 | |
| Passthrough/Partial Passthrough | HELUNA HEALTH | 0471.0101 | 93 | 940 | 30,076 | 30,076 | |
| Passthrough/Partial Passthrough | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 27515 | 93 | 945 | 419 | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|--|---|----------------|-----------|------------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | | | | | 419 | |
| | Passthrough/Partial Passthrough PUBLIC HEALTH INSTITUTE | 01483-CYC1 | 93 | 959 | 73,621 73,621 | |
| | Passthrough/Partial Passthrough CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY | SUB SA0000468 (HP28717) | 93 | 969 | 222,548 222,548 | |
| | Passthrough/Partial Passthrough FHI 360 | 780/0080.0214:06 | 93 | 977 | 32,908 32,908 | |
| | Passthrough/Partial Passthrough EDUARDO MONDLANE UNIVERSITY | SUB C0010 (TW010135) | 93 | 989 | 59,449 | |
| | EDUARDO MONDLANE UNIVERSITY | 87531 | 93 | 989 | 179 | |
| | EDUARDO MONDLANE UNIVERSITY | SUB C0012(TW011216) | 93 | 989 | 47,856 | |
| | GEORGIA INSTITUTE OF TECHNOLOGY | RF135-G1 | 93 | 989 | 170,447 | 11,197 |
| | JOHNS HOPKINS UNIVERSITY | 2002590467 | 93 | 989 | 4,435 | |
| | LOMA LINDA UNIVERSITY (INCL NATL MEDICAL TECHNOLOGY TESTBED, INC.) | 2170175:1 | 93 | 989 | 81,110 | |
| | MAKERERE UNIVERSITY | MAKCHS062017 | 93 | 989 | 16,494 | |
| | UNIVERSITY OF SOUTH FLORIDA | 1211-1065-00-D | 93 | 989 | 233,842 | |
| | YALE UNIVERSITY | GK000694 (CON-80000637) | 93 | 989 | -22,760 | |
| | YALE UNIVERSITY | SUB GR105447(CON-80001660) (TW | 93 | 989 | 17,961 | |
| | MUHIMBILI UNIVERSITY OF HEALTH AND ALLIED SCIENCES | D71-MU01 | 93 | 989 | 19,412 | |
| | MUHIMBILI UNIVERSITY OF HEALTH AND ALLIED SCIENCES | 1R25-04 | 93 | 989 | 9,113 | |
| | | | | | 637,537 | 11,197 |
| | Passthrough/Partial Passthrough CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 16-10016 | 93 | 994 | 1,808,144 1,808,144 | 647,115 647,115 |
| | Direct | | | | | |
| | ADMH PHS (SAMHSA) MENTAL HEALTH - CENTER FOR MENTAL HEALTH SERVICES | VARIOUS | 93 | RD | 227,223 | |
| | ADMH PHS (SAMHSA) PREVENTION - CENTER FOR SUBSTANCE ABUSE PREVENTION | VARIOUS | 93 | RD | 1,165,927 | 531,003 |
| | ADMH PHS (SAMHSA) TREATMENT - CENTER FOR SUBSTANCE ABUSE TREATMENT | VARIOUS | 93 | RD | 26,786 | |
| | AGENCY FOR HEALTHCARE RESEARCH AND QUALITY | VARIOUS | 93 | RD | 261,836 | |
| | CDC CENTERS FOR DISEASE CONTROL AND PREVENTION | VARIOUS | 93 | RD | 28,496,118 | 10,159,769 |
| | CDC NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH | VARIOUS | 93 | RD | 2,281,003 | 28,272 |
| | ENVIRONMENTAL HEALTH SCIENCES, NATIONAL INSTITUTE OF | VARIOUS | 93 | RD | 2,119,183 | 418,178 |
| | FDA PHS FOOD AND DRUG ADMINISTRATION | VARIOUS | 93 | RD | 5,936,014 | 563,162 |
| | HCFA CENTERS FOR MEDICARE AND MEDICAID SERVICES | VARIOUS | 93 | RD | 590,658 | |
| | HRSA HHS OFFICE OF MINORITY HEALTH | VARIOUS | 93 | RD | 456,938 | |
| | HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION | VARIOUS | 93 | RD | 15,337,216 | 3,025,997 |
| | NIH AGING, NATIONAL INSTITUTE ON | VARIOUS | 93 | RD | 157,014,049 | 19,250,800 |
| | NIH ALCOHOL ABUSE AND ALCOHOLISM, NATIONAL INSTITUTE OF | VARIOUS | 93 | RD | 19,939,685 | 2,938,298 |
| | NIH ARTHRITIS, MUSCULOSKELETAL & SKIN DISEASES, NATIONAL INSTITUTE OF | VARIOUS | 93 | RD | 37,992,070 | 1,118,705 |
| | NIH CHILD HEALTH & HUMAN DEVELOPMENT, NATIONAL INSTITUTE OF | VARIOUS | 93 | RD | 78,021,162 | 9,588,714 |
| | NIH DEAFNESS & OTHER COMMUNICATION DISORDERS, NATIONAL INSTITUTE ON | VARIOUS | 93 | RD | 19,410,548 | 741,564 |
| | NIH DENTAL AND CRANIOFACIAL RESEARCH,NATIONAL INSTITUTE OF | VARIOUS | 93 | RD | 32,581,350 | 2,766,488 |
| | NIH DIABETES, DIGESTIVE & KIDNEY DISEASES, NATIONAL INSTITUTE OF | VARIOUS | 93 | RD | 100,292,445 | 7,003,350 |
| | NIH DRUG ABUSE, NATIONAL INSTITUTE OF | VARIOUS | 93 | RD | 68,546,267 | 14,084,274 |
| | NIH ENVIRONMENTAL HEALTH SCIENCES, NATIONAL INSTITUTE OF | VARIOUS | 93 | RD | 38,848,039 | 4,475,290 |
| | NIH JOHN F. FOGARTY INTERNATIONAL CENTER | VARIOUS | 93 | RD | 6,164,410 | 2,025,431 |
| | NIH MEDICINE, NATIONAL LIBRARY OF | VARIOUS | 93 | RD | 4,348,081 | 357,802 |
| | NIH MENTAL HEALTH, NATIONAL INSTITUTE OF (NIMH) | VARIOUS | 93 | RD | 148,804,154 | 19,294,228 |
| | NIH NATIONAL CANCER INSTITUTE | VARIOUS | 93 | RD | 247,810,056 | 48,672,806 |
| | NIH NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES | VARIOUS | 93 | RD | 2,544 | |
| | NIH NATIONAL CENTER FOR COMPLEMENTARY AND INTEGRATIVE HEALTH | VARIOUS | 93 | RD | 8,015,639 | 690,135 |
| | NIH NATIONAL EYE INSTITUTE | VARIOUS | 93 | RD | 58,630,524 | 3,144,335 |
| | NIH NATIONAL HEART, LUNG AND BLOOD INSTITUTE | VARIOUS | 93 | RD | 156,864,380 | 20,189,791 |
| | NIH NATIONAL HUMAN GENOME RESEARCH INSTITUTE | VARIOUS | 93 | RD | 28,516,289 | 3,045,923 |
| | NIH NATIONAL INST OF ALLERGY AND INFECTIOUS DISEASES | VARIOUS | 93 | RD | 247,230,926 | 57,447,980 |
| | NIH NATIONAL INSTITUTE OF BIOMEDICAL IMAGING AND BIOENGINEERING | VARIOUS | 93 | RD | 35,387,193 | 4,900,520 |
| | NIH NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCE | VARIOUS | 93 | RD | 239,046,295 | 17,527,984 |
| | NIH NATIONAL INSTITUTE ON MINORITY HEALTH AND HEALTH DISPARITIES | VARIOUS | 93 | RD | 7,421,015 | 1,291,322 |
| | NIH NATIONAL INSTITUTES OF HEALTH CENTER FOR SCIENTIFIC REVIEW | VARIOUS | 93 | RD | 32,170,685 | 497,188 |
| | NIH NATIONAL INSTITUTES OF HEALTH OFFICE OF THE DIRECTOR | VARIOUS | 93 | RD | 36,074,685 | 5,141,428 |
| | NIH NEUROLOGICAL DISORDERS & STROKE, NATIONAL INSTITUTE OF | VARIOUS | 93 | RD | 144,621,010 | 19,400,097 |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | |
|---|---|--|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | Passed through to Subrecipients |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | NIH NIH NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES | VARIOUS | 93 | RD | 55,887,248 | 5,432,054 |
| | NIH NIH/MISCELLANEOUS AGENCIES & DEPARTMENTS | VARIOUS | 93 | RD | 15,980,703 | 378,884 |
| | NIH NURSING RESEARCH, NATIONAL INSTITUTE OF | VARIOUS | 93 | RD | 7,081,114 | 567,208 |
| | OHDS ADMINISTRATION FOR CHILDREN AND FAMILIES | VARIOUS | 93 | RD | 11,677 | |
| | PHS AGENCY FOR HEALTHCARE RESEARCH AND QUALITY | VARIOUS | 93 | RD | 9,763,270 | 1,036,009 |
| | PHS PHS OFFICE OF ADOLESCENT HEALTH | VARIOUS | 93 | RD | 783,506 | 38,513 |
| | PHS PHS OFFICE OF WOMEN'S HEALTH | VARIOUS | 93 | RD | 536,147 | 27,206 |
| | SEC ADMINISTRATION FOR COMMUNITY LIVING | VARIOUS | 93 | RD | 1,342,701 | 238,628 |
| | SEC HHS OFFICE OF THE SECRETARY | VARIOUS | 93 | RD | 268,696 | |
| | NIH NATIONAL HEART, LUNG AND BLOOD INSTITUTE (ARRA) | VARIOUS | 93 | RD | -3 | |
| | NIH NATIONAL INSTITUTES OF HEALTH CLINICAL CENTER | VARIOUS | 93 | RD | 78,467 | |
| | CDC CENTERS FOR DISEASE CONTROL AND PREVENTION (ARRA) | VARIOUS | 93 | RD | 108,609 | |
| | AGING, NATIONAL INSTITUTE ON | VARIOUS | 93 | RD | 736,997 | 59,430 |
| | CHILD HEALTH & HUMAN DEVELOPMENT, NATIONAL INSTITUTE OF | VARIOUS | 93 | RD | 1,206,026 | 75,643 |
| | DIABETES, DIGESTIVE & KIDNEY DISEASES, NATIONAL INSTITUTE OF | VARIOUS | 93 | RD | 267,520 | |
| | DRUG ABUSE, NATIONAL INSTITUTE OF | VARIOUS | 93 | RD | 797,863 | 93,440 |
| | JOHN F. FOGARTY INTERNATIONAL CENTER | VARIOUS | 93 | RD | 110,050 | |
| | MENTAL HEALTH, NATIONAL INSTITUTE OF (NIMH) | VARIOUS | 93 | RD | 1,333,119 | 598,603 |
| | NATIONAL CANCER INSTITUTE | VARIOUS | 93 | RD | 650,276 | |
| | NATIONAL EYE INSTITUTE | VARIOUS | 93 | RD | 1,336,176 | 486,957 |
| | NATIONAL HEART, LUNG AND BLOOD INSTITUTE | VARIOUS | 93 | RD | 290,147 | |
| | NATIONAL HUMAN GENOME RESEARCH INSTITUTE | VARIOUS | 93 | RD | 2,490,034 | 1,072,370 |
| | NATIONAL INST OF ALLERGY AND INFECTIOUS DISEASES | VARIOUS | 93 | RD | 1,854,941 | |
| | NATIONAL INSTITUTE OF BIOMEDICAL IMAGING AND BIOENGINEERING | VARIOUS | 93 | RD | 163,045 | |
| | NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCE | VARIOUS | 93 | RD | 499,733 | |
| | NATIONAL INSTITUTE ON MINORITY HEALTH AND HEALTH DISPARITIES | VARIOUS | 93 | RD | 184,844 | |
| | NEUROLOGICAL DISORDERS & STROKE, NATIONAL INSTITUTE OF | VARIOUS | 93 | RD | 591,776 | |
| | NIH DENTAL AND CRANIOFACIAL RESEARCH,NATIONAL INSTITUTE OF (ARRA) | VARIOUS | 93 | RD | 2,020 | |
| | NIH NIH NATIONAL CENTER FOR RESEARCH RESOURCES | VARIOUS | 93 | RD | -1,732 | |
| | OHDS HHSOHDS/MISCELLANEOUS AGENCIES & DEPARTMENTS | VARIOUS | 93 | RD | 571,444 | 123,510 |
| | PHS PHS HEALTH, ASSISTANT SECRETARY FOR | VARIOUS | 93 | RD | 80,266 | |
| | NIH NATIONAL CANCER INSTITUTE | VARIOUS | 93 | RD | 13,369 | |
| | NIH NATIONAL HEART, LUNG AND BLOOD INSTITUTE | VARIOUS | 93 | RD | 59,617 | |
| | NIH NATIONAL INST OF ALLERGY AND INFECTIOUS DISEASES | VARIOUS | 93 | RD | 49,270 | |
| | Passthrough/Partial Passthrough | | | | | |
| | BUCK INSTITUTE FOR RESEARCH ON AGING | SA40002-UC | 93 | RD | 26,373 | |
| | CALIFORNIA ASSOCIATION OF HEALTH FACILITIES | 201502630 | 93 | RD | -351 | |
| | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 1511002 | 93 | RD | 204,654 | |
| | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 1820B | 93 | RD | 2 | |
| | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 18-10610 | 93 | RD | 77,506 | |
| | CELLERANT THERAPEUTICS, INC. | 79617 | 93 | RD | 2,089 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | 950008021512C | 93 | RD | 32,291 | |
| | COLD SPRING HARBOR LABORATORY | 64580239 | 93 | RD | 144,163 | |
| | COLORADO STATE UNIVERSITY | G-33752-01 | 93 | RD | 272,762 | |
| | COLUMBIA UNIVERSITY | U19A1067773 | 93 | RD | 213 | |
| | COLUMBIA UNIVERSITY | 1(GG012976-05) | 93 | RD | 98,421 | |
| | COLUMBIA UNIVERSITY | 1(GG013057-08) | 93 | RD | 287,940 | |
| | COLUMBIA UNIVERSITY | 1(GG013057-09) | 93 | RD | 203,810 | |
| | COLUMBIA UNIVERSITY | 2(GG013057-04) | 93 | RD | 58,146 | |
| | COLUMBIA UNIVERSITY | 4(GG012936-01) | 93 | RD | 177,981 | |
| | COMMUNITY HEALTH IMPROVEMENT PARTNERS | SUB 5834-122-01 (DP005834) | 93 | RD | 10,165 | |
| | DANA-FARBER CANCER INSTITUTE | R01CA172067 | 93 | RD | 12,003 | |
| | DUKE UNIVERSITY | SUB 206993 (2752010000031) | 93 | RD | -2,182 | |
| | DUKE UNIVERSITY | 203-6729 | 93 | RD | 80,712 | |
| | DUKE UNIVERSITY | 2036702 | 93 | RD | 746 | |
| | DUKE UNIVERSITY | A03-1227 | 93 | RD | 13,665 | |
| | ETHIOPIAN PUBLIC HEALTH ASSOCIATION | 88951 | 93 | RD | -288 | |
| | FHI 360 | PO16001621 | 93 | RD | 269,945 | 261,048 |
| | FHI 360 | PO17003415 | 93 | RD | 157,910 | 126,648 |
| | FLORIDA STATE UNIVERSITY | R02075 | 93 | RD | 202,168 | |
| | GLADSTONE INSTITUTES | 60270 | 93 | RD | -6 | |
| | GLADSTONE INSTITUTES | R2491-A | 93 | RD | 100,206 | |
| | GLADSTONE INSTITUTES | R2512-A | 93 | RD | 23,284 | |
| | HARVARD PILGRIM HEALTH CARE | PH000615C | 93 | RD | 3,792 | |
| | HARVARD UNIVERSITY | 112199-5106829 | 93 | RD | 19,011 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 02580512HHSN272201400008C | 93 | RD | 324,723 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | 0255-8680-4609 | 93 | RD | 82,610 | |
| | KAISER PERMANENTE DIVISION OF RESEARCH | OOS030104-UCB | 93 | RD | 10,712 | |
| | LANKENAU INSTITUTE FOR MEDICAL RESEARCH | 06297-0793 | 93 | RD | 162,301 | |
| | LEIDOS BIOMEDICAL RESEARCH, INC. | 16X114 | 93 | RD | 328,858 | |

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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|---|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | LEIDOS BIOMEDICAL RESEARCH, INC. | 39A96 | 93 | RD | -1,738 | |
| | LP THERAPEUTICS, INC. | 201602618 | 93 | RD | 49,158 | |
| | MANDALMED, INC. | A128262 | 93 | RD | 328,883 | |
| | MASSACHUSETTS GENERAL HOSPITAL | 87A57 | 93 | RD | 761 | |
| | MASSACHUSETTS GENERAL HOSPITAL | NN101 | 93 | RD | -5,298 | |
| | MASSACHUSETTS GENERAL HOSPITAL | 27966 | 93 | RD | 1 | |
| | MASSACHUSETTS GENERAL HOSPITAL | 232788 | 93 | RD | 12,197 | |
| | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | 80890 | 93 | RD | 40,647 | |
| | MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH | A126667 | 93 | RD | 2,938 | |
| | MITCHELL GROUP, INC. | TMG/OASIS-SAREL- YEAR 5-2017/2 | 93 | RD | 97,576 | |
| | MOUNT SINAI MEDICAL CENTER | UH3AT009149-CYC1 | 93 | RD | 4,245 | |
| | N2 BIOMEDICAL | 008514 | 93 | RD | 71,966 | |
| | NANOCELECT BIOMEDICAL, INC. | SUB 20183492 (DA045460) | 93 | RD | 70,000 | |
| | NATIONAL FRAGILE X FOUNDATION | 201603349 | 93 | RD | 3,346 | |
| | NATIONWIDE CHILDREN'S HOSPITAL | 700179-0623-00 | 93 | RD | 1,814 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC | NEY2150-01 | 93 | RD | 4,981 | |
| | NORTHROP GRUMMAN CORPORATION | 7500128578 | 93 | RD | 42,007 | |
| | OREGON HEALTH & SCIENCE UNIVERSITY | 201500026 | 93 | RD | 158,909 | |
| | OREGON HEALTH & SCIENCE UNIVERSITY | S1320 | 93 | RD | 1,010 | |
| | OREGON HEALTH & SCIENCE UNIVERSITY | 1010095_UCDAVIS | 93 | RD | 184,905 | |
| | OREGON HEALTH & SCIENCE UNIVERSITY | 1010517_UCBERKELEY_A5 | 93 | RD | 34,831 | |
| | PUBLIC HEALTH INSTITUTE | 88529 | 93 | RD | 613 | |
| | Q-CHEM, INC. | 046857 | 93 | RD | 24,989 | |
| | Q-CHEM, INC. | 046858 | 93 | RD | 3,719 | |
| | RAND CORP | 9920180101 | 93 | RD | 11,067 | |
| | REVERAGEN BIOPHARMA, INC. | 201701161 | 93 | RD | 32,479 | |
| | REVERAGEN BIOPHARMA, INC. | 201701162 | 93 | RD | 13,489 | |
| | REVERAGEN BIOPHARMA, INC. | A18-2621 | 93 | RD | 14,575 | |
| | RUSH UNIVERSITY MEDICAL CENTER | 15122904-SUB01-CYC1 | 93 | RD | 36,896 | |
| | SOCIAL AND SCIENTIFIC SYSTEMS, INC. | CRB-S5S-S-15-004544 | 93 | RD | 557,258 | |
| | SRI INTERNATIONAL | 21912 | 93 | RD | 33,382 | |
| | ST. JUDE CHILDREN'S RESEARCH HOSPITAL | HSN272201400006C | 93 | RD | 4,194 | |
| | STANFORD UNIVERSITY | 61624544-45510 | 93 | RD | 109,820 | |
| | STANFORD UNIVERSITY | 61799594-131106 | 93 | RD | 132,603 | |
| | STANFORD UNIVERSITY | 61835904-125082 | 93 | RD | 62,089 | |
| | STANFORD UNIVERSITY | 61947242-44290 | 93 | RD | 65,028 | |
| | STANFORD UNIVERSITY | 61962502-131179 | 93 | RD | 57,220 | |
| | STANFORD UNIVERSITY | 61987623-135726 | 93 | RD | 115,306 | |
| | STATE OF MARYLAND | 17-17509-G | 93 | RD | 265 | |
| | STOCHASTECH CORPORATION | 201700616 | 93 | RD | 20,858 | |
| | SUNY UNIVERSITY AT ALBANY | 18-9 | 93 | RD | 190,461 | |
| | SUTTER WEST BAY HOSPITALS | 280201015-S216 | 93 | RD | 149,485 | 2,782 |
| | TELESECURITY SCIENCES, INC. | TSS160003 | 93 | RD | 218 | |
| | THE SCRIPPS RESEARCH INSTITUTE | SUB ADVANCE APPROVAL | 93 | RD | 148,440 | |
| | THE UNIVERSITY OF ALABAMA (TUSCALOOSA) | 502889SP004001 | 93 | RD | 456,985 | |
| | UNIVERSITY OF COLORADO DENVER | FY18.572.001-CYC1 | 93 | RD | 14,385 | |
| | UNIVERSITY OF COLORADO DENVER | FY19.001.012-CYC1 | 93 | RD | 97,347 | |
| | UNIVERSITY OF FLORIDA | 36A79 | 93 | RD | -1 | |
| | UNIVERSITY OF FLORIDA | SUB 20090630 (NIDDK/NIAID/NICH) | 93 | RD | -44,373 | |
| | UNIVERSITY OF IOWA | W000696003 | 93 | RD | 47,683 | |
| | UNIVERSITY OF IOWA | R01AR070031 | 93 | RD | 188,701 | |
| | UNIVERSITY OF KENTUCKY/UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION | 3200002154-19-256-CYC1 | 93 | RD | 3,702 | |
| | UNIVERSITY OF KENTUCKY/UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION | 3200001431-18-177 | 93 | RD | 13,548 | |
| | UNIVERSITY OF MARYLAND | -20746001 | 93 | RD | 111,313 | |
| | UNIVERSITY OF MARYLAND, BALTIMORE | 1400243L-CYC1 | 93 | RD | 225,592 | |
| | UNIVERSITY OF MASSACHUSETTS AMHERST | 18-009932 B00 | 93 | RD | 77,967 | |
| | UNIVERSITY OF MICHIGAN | 3004829743-CYC1 | 93 | RD | 20,925 | |
| | UNIVERSITY OF MICHIGAN | 3004686906 | 93 | RD | 95,858 | |
| | UNIVERSITY OF PENNSYLVANIA | 562134 | 93 | RD | 6,555 | |
| | UNIVERSITY OF PENNSYLVANIA | 572701 | 93 | RD | 203,742 | |
| | UNIVERSITY OF PENNSYLVANIA | 574270 | 93 | RD | 63,146 | |
| | UNIVERSITY OF PENNSYLVANIA | 60235 | 93 | RD | -5,642 | |
| | UNIVERSITY OF ROCHESTER | 417207 | 93 | RD | 1,034 | |
| | UNIVERSITY OF ROCHESTER | 417342-G / UR FAO GR510790 | 93 | RD | 36,333 | |
| | UNIVERSITY OF SOUTH FLORIDA | 09000015 | 93 | RD | 1,372 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 100574101-CYC1 | 93 | RD | 160,843 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 107897015 | 93 | RD | 1,929 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 110623667 | 93 | RD | 109,209 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 90972930 | 93 | RD | -1,079 | |
| | UNIVERSITY OF TEXAS-AUSTIN | UTA18-000127 | 93 | RD | 2,930 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | | |
|--|---|--|------------------------------------|-----------------|----------------------|---------------------------------|----------------------|--------------------|
| | | | Prefix | Extension | Federal Expenditures | | | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | UNIVERSITY OF TEXAS-SOUTHWESTERN MEDICAL CENTER AT DALLAS UNIVERSITY OF TEXAS-SOUTHWESTERN MEDICAL CENTER AT DALLAS UNIVERSITY OF UTAH UNIVERSITY OF UTAH UNIVERSITY OF VERMONT UNIVERSITY OF WASHINGTON UNIVERSITY OF WASHINGTON UNIVERSITY OF WASHINGTON WESTAT YALE UNIVERSITY YALE UNIVERSITY YESHIVA UNIVERSITY HELUNA HEALTH HELUNA HEALTH HELUNA HEALTH HELUNA HEALTH CELL BIOLOGICS, INC. NANOMIX INC. RADOPTICS LLC RADOPTICS LLC UNIVERSITY OF COLOMBO HENNEPIN HEALTHCARE RESEARCH INSTITUTE ALLEN INSTITUTE MEADOWLARK OPTICS, INC. PEOPLE POWER COMPANY THE EMMES COMPANY, LLC VITALANT CHICAGO ASSOCIATION FOR RESEARCH AND EDUCATION IN SCIENCE ENABLE BIOSCIENCES INC. IMATREX, INC. THERANOSTEC INC. | 83117 | 93 | RD | -733 | | | |
| | | 82496 | 93 | RD | -9,521 | | | |
| | | 10035609 | 93 | RD | 7,110 | | | |
| | | B6060 | 93 | RD | 45,301 | | | |
| | | 28557SUBUCDAVIS | 93 | RD | 4,762 | | | |
| | | 3UH3MH106338 | 93 | RD | 31,424 | | | |
| | | 762195 | 93 | RD | 212,330 | | | |
| | | UWSC10779 | 93 | RD | 92,215 | | | |
| | | SUB S8954 (HHSN271201100027C) | 93 | RD | 185,222 | | | |
| | | GR100911 (CON-80000973) | 93 | RD | 113,157 | | | |
| | | GR102957 (CON-80001272) | 93 | RD | 130,146 | | | |
| | | 311172 | 93 | RD | 195,576 | | | |
| | | 044418 | 93 | RD | 88,901 | | | |
| | | 044812 | 93 | RD | 51,562 | | | |
| | | 046669 | 93 | RD | 28,617 | | | |
| | | SPO#16150 | 93 | RD | 191 | | | |
| | | PA-16-303 | 93 | RD | 65,577 | | | |
| | | A18-1309 | 93 | RD | 9,249 | | | |
| | | 009094 | 93 | RD | 32,533 | | | |
| | | 010010 | 93 | RD | 25,328 | | | |
| | | 2223475-CYC1 | 93 | RD | 50,633 | | | |
| | | HHSH250201500009C | 93 | RD | 19,694 | | | |
| | | 2017-0573 | 93 | RD | 841,851 | 14,762 | | |
| | | 044261 | 93 | RD | 148,678 | | | |
| | | 045076 | 93 | RD | 251,493 | | | |
| | | 82569 | 93 | RD | -1,137 | | | |
| | | 10841UCD132 | 93 | RD | 41,213 | | | |
| | | CSP LUO 0001 | 93 | RD | -589 | | | |
| | | D2141 | 93 | RD | 14,741 | | | |
| | | 21C47 | 93 | RD | 94,277 | | | |
| | | A19-2859 | 93 | RD | 3,554 | | | |
| | | DEPARTMENT OF HEALTH AND HUMAN SERVICES Total | | | | | 2,126,718,620 | 290,954,529 |
| | | CORPORATION FOR NATIONAL AND COMMUNITY SRVC | | | | | 2,356,021,078 | 299,688,690 |
| | | | Passthrough/Partial Passthrough | | | | | |
| | | | JUMPSTART FOR YOUNG CHILDREN, INC. | 88601 | 94 | 006 | 702 | |
| | | | JUMPSTART FOR YOUNG CHILDREN, INC. | 89522 | 94 | 006 | -921 | |
| | | | JUMPSTART FOR YOUNG CHILDREN, INC. | 18-490200-CYC20 | 94 | 006 | 49,707 | |
| | | | JUMPSTART FOR YOUNG CHILDREN, INC. | 880200-CYC1 | 94 | 006 | 152,032 | |
| | | | JUMPSTART FOR YOUNG CHILDREN, INC. | 89057 | 94 | 006 | -100 | |
| | | | | | | | 201,419 | |
| | Direct | | | | | | | |
| | CORPORATION FOR NATIONAL AND COMMUNITY SERVICE | VARIOUS | 94 | RD | 127,982 | | | |
| | Passthrough/Partial Passthrough | | | | | | | |
| | JUMPSTART FOR YOUNG CHILDREN, INC. | 60368 | 94 | RD | 15,015 | | | |
| | JUMPSTART FOR YOUNG CHILDREN, INC. | 880200 | 94 | RD | 73,099 | | | |
| | | | | | 216,096 | | | |
| CORPORATION FOR NATIONAL AND COMMUNITY SRVC Total | | | | | 417,515 | | | |
| SOCIAL SECURITY ADMINISTRATION | | | | | | | | |
| | Passthrough/Partial Passthrough | | | | | | | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | UM1CA228823 | 96 | 395 | 7,429 | | | |
| | | | | | 7,429 | | | |
| | Passthrough/Partial Passthrough | | | | | | | |
| | XERIS PHARMACEUTICALS, INC. | A129827 | 96 | 847 | 10,617 | | | |
| | | | | | 10,617 | | | |
| | Passthrough/Partial Passthrough | | | | | | | |
| | UNIVERSITY OF MICHIGAN | 3004717564 | 96 | RD | 1,613 | | | |
| | | | | | 1,613 | | | |
| SOCIAL SECURITY ADMINISTRATION Total | | | | | 19,659 | | | |
| DEPARTMENT OF HOMELAND SECURITY | | | | | | | | |
| | Passthrough/Partial Passthrough | | | | | | | |
| | THE CENTER FOR RURAL DEVELOPMENT | FY140009203UCDAVIS | 97 | 005 | -62 | | | |
| | | | | | -62 | | | |
| | Passthrough/Partial Passthrough | | | | | | | |
| | HRL LABORATORIES, LLC | 14089-503866-DS-CYC10 | 97 | 007 | 2,196 | | | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 73880521 | 97 | 007 | -10,031 | | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|--|--|---|----------------|------------------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HOMELAND SECURITY | SURESCAN CORPORATION | 042378 | 97 | 007 | 19,400 | |
| | | | | | 11,565 | |
| | Passthrough/Partial Passthrough | | | | | |
| | SALK INSTITUTE FOR BIOLOGICAL STUDIES | SUB 20174100-SIBS (EMW-2016-FP | 97 | 044 | 255,551 | |
| | SKIDMORE COLLEGE | 32170-1 | 97 | 044 | 125,480 | |
| | | | | | 381,030 | |
| | Passthrough/Partial Passthrough | | | | | |
| | ARIZONA STATE UNIVERSITY/TEMPE | ASU-209466-CYC2 | 97 | 061 | 90,157 | 10,962 |
| | | | | | 90,157 | 10,962 |
| | Passthrough/Partial Passthrough | | | | | |
| | GEORGE MASON UNIVERSITY | 78319 | 97 | 065 | 4,697 | |
| | | | | | 4,697 | |
| | Passthrough/Partial Passthrough | | | | | |
| | PEPPERPRINT | UCB2015-HSHQDC-15-C-B0010 | 97 | 077 | 91,059 | |
| UNIVERSITY OF OREGON | 251370A:4 | 97 | 077 | 70,107 | | |
| | | | | 161,166 | | |
| Passthrough/Partial Passthrough | | | | | | |
| UNIVERSITY OF ILLINOIS | 2016-01414-03-7850:3 | 97 | 108 | 54,439 | | |
| | | | | 54,439 | | |
| Direct | | | | | | |
| DEPARTMENT OF HOMELAND SECURITY | VARIOUS | 97 | RD | 2,301,365 | 64,977 | |
| Passthrough/Partial Passthrough | | | | | | |
| SIGNATURE SCIENCE, LLC | S1020 | 97 | RD | 51,588 | | |
| | | | | 2,352,953 | 64,977 | |
| DEPARTMENT OF HOMELAND SECURITY Total | | | | 3,055,946 | 75,939 | |
| U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT | | | | | | |
| Passthrough/Partial Passthrough | | | | | | |
| ASTRAEA NATIONAL LESBIAN ACTION FOUNDATION | GLHRP---15--1 | 98 | 001 | 232,136 | 100,000 | |
| INTERNATIONAL BUSINESS & TECHNICAL CONSULTANTS, INC. | 15-IBTCI-00027 | 98 | 001 | 41,873 | | |
| INTERNATIONAL PLANNED PARENTHOOD FEDERATION | SIFPO2-SA3-51214010 | 98 | 001 | 1,971 | | |
| NATIONAL ACADEMY OF SCIENCES | 2000007143 | 98 | 001 | 70,394 | | |
| NATIONAL ACADEMY OF SCIENCES | 009660 | 98 | 001 | 123,287 | | |
| NATIONAL ACADEMY OF SCIENCES | 2000009144 | 98 | 001 | 84,959 | | |
| OHIO STATE UNIVERSITY | 60054302 | 98 | 001 | 39,640 | | |
| PARTNERS IN HOPE (MALAWI) | 81019 | 98 | 001 | -128 | | |
| POPULATION COUNCIL - NEW YORK | SH1503 | 98 | 001 | 27,626 | | |
| RIGHT TO CARE | 20163138:3 | 98 | 001 | 1,003,768 | | |
| SOCIAL IMPACT, INC. | 85427 | 98 | 001 | -1 | | |
| SUSTAINABLE SCIENCES INSTITUTE | USAID-4100-2 | 98 | 001 | 29,368 | | |
| TUFTS UNIVERSITY | 201502576 | 98 | 001 | 144,099 | 4,219 | |
| UCP WHEELS FOR HUMANITY | 80041 | 98 | 001 | 65,916 | | |
| UNIVERSITY OF FLORIDA | UFDSP00011429 | 98 | 001 | 185,279 | 53,979 | |
| UNIVERSITY RESEARCH CO., LLC | 041898 | 98 | 001 | 383,342 | | |
| | | | | 2,433,528 | 158,197 | |
| Passthrough/Partial Passthrough | | | | | | |
| NORTHEASTERN UNIVERSITY | 500421-78053 | 98 | 865 | 14,609 | | |
| | | | | 14,609 | | |
| Passthrough/Partial Passthrough | | | | | | |
| INTERNATIONAL MAIZE AND WHEAT IMPROVEMENT CENTER | 016258 | 98 | RD | 377,029 | 158,449 | |
| INTERNATIONAL MAIZE AND WHEAT IMPROVEMENT CENTER | IWYP76FP | 98 | RD | 293,723 | | |
| MAKERERE UNIVERSITY | MAKSPH-001-18 | 98 | RD | 63,765 | | |
| MICHIGAN STATE UNIVERSITY | RC107526 UC DAVIS | 98 | RD | 63,314 | | |
| NATIONAL ACADEMY OF SCIENCES | 2000006165 | 98 | RD | 8,274 | | |
| NATIONAL ACADEMY OF SCIENCES | 2000007151 | 98 | RD | 35,755 | | |
| NATIONAL ACADEMY OF SCIENCES | AID0AAA1100012 | 98 | RD | 122,703 | | |
| INTERNATIONAL RESCUE COMMITTEE, INC | 60556 | 98 | RD | 27,225 | | |
| INTERNATIONAL RESCUE COMMITTEE, INC | AID-OFDA-A-17-00064 | 98 | RD | 33,070 | | |
| ALLEN INSTITUTE | 2014-0571 | 98 | RD | 191,167 | | |
| GLOBAL ALLIANCE FOR IMPROVED NUTRITION | 201864738 | 98 | RD | 172,870 | | |
| | | | | 1,388,896 | 158,449 | |
| U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT Total | | | | 3,837,033 | 316,646 | |
| OTHER FEDERAL AGENCIES | | | | | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---------------------------------------|--|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| OTHER FEDERAL AGENCIES | Direct | | | | | |
| | CONSUMER FINANCIAL PROTECTION BUREAU | VARIOUS | 99 | RD | -4,093 | |
| | FEDERAL COMMUNICATIONS COMMISSION | VARIOUS | 99 | RD | 37,294 | |
| | Passthrough/Partial Passthrough | | | | | |
| | 3E TECHNOLOGIES INTERNATIONAL, INC. | 59639 | 99 | RD | 2,224 | |
| | 3E TECHNOLOGIES INTERNATIONAL, INC. | 58681 | 99 | RD | 2,293 | |
| | AERODYNE RESEARCH, INC. | ARI 11423-1 | 99 | RD | 130,929 | |
| | AEROSPACE CORPORATION | 4600005842 | 99 | RD | 57,373 | |
| | AEROSPACE CORPORATION | 20182871 | 99 | RD | 73,534 | |
| | AGNITRON TECHNOLOGY, INC. | 59020 | 99 | RD | 28,584 | |
| | AGNITRON TECHNOLOGY, INC. | SB180133 | 99 | RD | 241,699 | |
| | AGNITRON TECHNOLOGY, INC. | SB190231 | 99 | RD | 6,662 | |
| | ALMOND BOARD OF CALIFORNIA | 18.HARV3A/EHSANI | 99 | RD | 30,088 | |
| | AMERICAN PHYSICAL SOCIETY | PHY-1622510 AND DE-SC0011076 | 99 | RD | 19,608 | |
| | AMERICAN THROMBOSIS AND HEMOSTASIS NETWORK | ATHN2014 ATHN 2 842 1 | 99 | RD | -23,904 | |
| | AMES LABORATORY | SC-19-492 | 99 | RD | 182,305 | |
| | ANGSTROM DESIGNS ENGRG SERVS | NASA STTR UCSB 101617-UCSB04 | 99 | RD | 111,521 | |
| | ARGONNE NATIONAL LABORATORY | 9F-60030 | 99 | RD | 58,225 | |
| | ARGONNE NATIONAL LABORATORY (DOE GOCO LAB OPERATED BY UNIV OF CHICAGO) | 8F-30189 | 99 | RD | 8,946 | |
| | ARIZONA STATE UNIVERSITY/TEMPE | 17-253 | 99 | RD | 96,558 | |
| | ARIZONA STATE UNIVERSITY/TEMPE | A16-0487-007 | 99 | RD | 18,452 | |
| | ARIZONA STATE UNIVERSITY/TEMPE | ASUB00000010 | 99 | RD | 15,442 | |
| | ARIZONA STATE UNIVERSITY/TEMPE | ASUB00000021 | 99 | RD | 522,705 | |
| | ARIZONA STATE UNIVERSITY/TEMPE | ASUB00000189 | 99 | RD | 53,941 | |
| | ARIZONA STATE UNIVERSITY/TEMPE | ASUB00000244 | 99 | RD | 28,059 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-AR-15031.001-A | 99 | RD | 13,448 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14474.001-A | 99 | RD | 10,104 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15344.001-A | 99 | RD | 51,856 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | SUB HST-GO-14610.010-A (NAS5-2 | 99 | RD | 214 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | SUB HST-GO-14675.008-A (NAS5-2 | 99 | RD | 160 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 010021 | 99 | RD | 44,595 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-AR-15014.003-A | 99 | RD | 73,057 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-AR-15032.002-A | 99 | RD | 84,978 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-AR-15039.003-A | 99 | RD | 50,309 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15222.001-A | 99 | RD | 6,974 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15225.002-A | 99 | RD | 9,841 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15356.002-A | 99 | RD | 43,645 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | SUB HST-GO- 15461.001-A (NAS5- | 99 | RD | 31,874 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | SUB HST-GO-14606.006-A (NAS5- | 99 | RD | 46,816 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | SUB HST-GO-15080.001-A(NONE) | 99 | RD | 17,210 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-AR-15006.003-A | 99 | RD | 33,330 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-13742.005-A | 99 | RD | 15,373 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-13826.019-A | 99 | RD | 9,239 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14154.001-A | 99 | RD | 3,225 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14808.002-A | 99 | RD | 112,759 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14894.004-A | 99 | RD | 1,056 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14922.003-A | 99 | RD | 19,963 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-14936.001-A | 99 | RD | 8,945 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15172.001-A | 99 | RD | 707 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15176.002-A | 99 | RD | 694 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15265.002-A | 99 | RD | 4,440 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15275.012-A | 99 | RD | 45,177 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15396.004-A | 99 | RD | 1,555 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15476.001-A | 99 | RD | 5,053 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-HF2-51405.001-A | 99 | RD | 87,433 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-HF2-51412.001-A | 99 | RD | 101,431 | |
| | ATOX BIO | SUB ATB-202 (HHSO1002014000013 | 99 | RD | 54,823 | |
| | BAE SYSTEMS (GREAT BRITAIN) | 1017370 | 99 | RD | 12,304 | |
| | BATTELLE MEMORIAL INSTITUTE | 009536 | 99 | RD | 26,093 | |
| | BATTELLE MEMORIAL INSTITUTE | 009657 | 99 | RD | 47,221 | |
| | BATTELLE MEMORIAL INSTITUTE | 217103 | 99 | RD | 7,082 | |
| | BAYLOR COLLEGE OF MEDICINE | 79093 | 99 | RD | -8,571 | |
| | BCN BIOSCIENCES | 79279 | 99 | RD | 100,388 | |
| | BOEING COMPANY, THE | PO NO. 1169752 | 99 | RD | 34,326 | |
| | BOEING COMPANY, THE | 1468949 | 99 | RD | -26,270 | |
| | BOEING COMPANY, THE | 1477408 | 99 | RD | 3,753 | |
| | BOISE STATE UNIVERSITY | 20163497 | 99 | RD | 32,897 | |
| | BOOZ ALLEN HAMILTON INC. | S900815BAH | 99 | RD | 73,087 | |
| | BOOZ ALLEN HAMILTON INC. | S901742BAH TO 1 | 99 | RD | 22,545 | |
| | BOOZ ALLEN HAMILTON INC. | S901742BAH TO 2 | 99 | RD | 18,972 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---------------------------------------|---|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| OTHER FEDERAL AGENCIES | BORON SPECIALTIES, LLC | 20181672 | 99 | RD | 100,044 | |
| | BOSTON UNIVERSITY | 4500002882 | 99 | RD | 25,935 | |
| | BRIGHTON YOUNG UNIVERSITY | A15-0216-004 | 99 | RD | 211,971 | |
| | BROOKHAVEN NATIONAL LABORATORY/BROOKHAVEN SCIENCE ASSOCIATES, LLC | A00-1382-019 | 99 | RD | 56,658 | |
| | CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY | 14418 | 99 | RD | 15,428 | |
| | CALIFORNIA DEPARTMENT OF EDUCATION | CN150380:2 | 99 | RD | -10,170 | 20,979 |
| | CALIFORNIA DEPARTMENT OF EDUCATION | CN170223 | 99 | RD | 10,990 | 5,845 |
| | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | SUB 16-10844 (NONE) | 99 | RD | 410,630 | |
| | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 182BB | 99 | RD | 2,272 | |
| | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 18-10003 | 99 | RD | 8,694 | |
| | CALIFORNIA STATE COASTAL CONSERVANCY | 15-050 | 99 | RD | 1,223 | |
| | CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO STATE UNIVERSITY | S18-0019 | 99 | RD | 256,254 | |
| | CARNEGIE MELLON UNIVERSITY | 009950 | 99 | RD | 49,973 | |
| | CEDARS-SINAI MEDICAL CENTER | 0001395754 | 99 | RD | 42,845 | |
| | CHROMOLOGIC | HHSN272201700012C | 99 | RD | -9,468 | |
| | COGNIONICS, INC. | SUB UCSD093016 (W81XWH-18-C-00 | 99 | RD | 157,329 | |
| | COLORADO SCHOOL OF MINES | 401245-5803 | 99 | RD | 196,181 | |
| | COLORADO STATE UNIVERSITY | 007958 | 99 | RD | 148,899 | |
| | COLORADO STATE UNIVERSITY | G-01688:01 | 99 | RD | 4,193 | |
| | COLUMBIA UNIVERSITY | 1(GG013379) | 99 | RD | 43,380 | |
| | CREARE INCORPORATED | CREARE 83251 | 99 | RD | 7,519 | |
| | CREARE INCORPORATED | CREARE S609 (PO 94476) | 99 | RD | 48,810 | |
| | DANA-FARBER CANCER INSTITUTE | SUB 20171987(NONE) | 99 | RD | 9,679 | |
| | DCS CORPORATION | SUB APX03-S024 (W911NF-10-D-00 | 99 | RD | 42,517 | |
| | DISTANT FOCUS CORPORATION | SUB P4010 (W15QKN-17-C-0008) | 99 | RD | 31,991 | |
| | DUKE UNIVERSITY | SUB 20144899 (HHSN-27520100000 | 99 | RD | 8,499 | |
| | DUKE UNIVERSITY | SUB 203-8494 (HHSN275201000003 | 99 | RD | 2,587 | |
| | DUKE UNIVERSITY | 235432 | 99 | RD | 4,667 | |
| | DUKE UNIVERSITY | 77661 | 99 | RD | -2,937 | |
| | DUKE UNIVERSITY | 873C9 | 99 | RD | 5,021 | |
| | EASTERN RESEARCH GROUP, INC. | 010082 | 99 | RD | 20,317 | |
| | EASTERN RESEARCH GROUP, INC. | 010393 | 99 | RD | 22,201 | |
| | EDUCATION, TRAINING & RESEARCH ASSOCIATES | 63483 | 99 | RD | 380,963 | |
| | EDUCATION, TRAINING & RESEARCH ASSOCIATES | 65004 | 99 | RD | 115,090 | |
| | EDUCATION, TRAINING & RESEARCH ASSOCIATES | A00-0714-005 | 99 | RD | 265,099 | |
| | ENGILITY CORP. | SUB PO-0011431 14463-PETTT-UCS | 99 | RD | 243,804 | |
| | ENGILITY CORP. | 877E8 | 99 | RD | 95,274 | |
| | ERC, INCORPORATED | PO NO. PS150006 | 99 | RD | 13,883 | |
| | ERC, INCORPORATED | PO NO. PS150008 | 99 | RD | 13,254 | |
| | ERC, INCORPORATED | PS180038 | 99 | RD | 72,553 | |
| | FAST-TRACK DRUGS & BIOLOGICS, LLC | HHSN27500008-1078-NCIG7-UCLA | 99 | RD | 144,891 | |
| | FERMI RESEARCH ALLIANCE, LLC (FRA) (INCL FERMILAB-DOE GOCO) | 009911 | 99 | RD | 40,000 | |
| | FERMI RESEARCH ALLIANCE, LLC (FRA) (INCL FERMILAB-DOE GOCO) | 644405:1 | 99 | RD | 461,515 | |
| | FERMI RESEARCH ALLIANCE, LLC (FRA) (INCL FERMILAB-DOE GOCO) | 646772 | 99 | RD | 29,143 | |
| | FERMI RESEARCH ALLIANCE, LLC (FRA) (INCL FERMILAB-DOE GOCO) | 654315 | 99 | RD | 43,599 | |
| | FRED HUTCHINSON CANCER RESEARCH CENTER | SUB 0000865653 (HHSN2682016000 | 99 | RD | 57,047 | |
| | FREEDOM PHOTONICS LLC | S7017-01 | 99 | RD | 155,319 | |
| | FREEDOM PHOTONICS LLC | S7104-01 | 99 | RD | 20,157 | |
| | FREEDOM PHOTONICS LLC | 59201 | 99 | RD | 573 | |
| | FREEDOM PHOTONICS LLC | 59212 | 99 | RD | 88 | |
| | FREEDOM PHOTONICS LLC | S7132-01 | 99 | RD | 102,160 | |
| | FREEDOM PHOTONICS LLC | S7135-02 | 99 | RD | 5,879 | |
| | GALOIS INC | 2015-007 | 99 | RD | 324,367 | |
| | GALOIS INC | 2017-002 | 99 | RD | 43,388 | |
| | GENERAL ATOMICS | 4500059085 | 99 | RD | 577,360 | |
| | GENERAL ATOMICS | SUB 4500071386 (DE-SC0018108) | 99 | RD | 162,529 | |
| | GENERAL ELECTRIC COMPANY (INCL GE HEALTHCARE, GE LIGHTING INST) | PO NO. 401109530 | 99 | RD | 19,407 | |
| | GLOBAL ALGAE INNOVATIONS | 171038 | 99 | RD | 343,124 | |
| | GLOBAL SCIENCES & TECHNOLOGY, INC. | 877GF | 99 | RD | -644 | |
| | HASS AVOCADO BOARD | 20164932 | 99 | RD | 34,621 | |
| | HEALTH RESEARCH AND EDUCATION TRUST | 80781 | 99 | RD | 7,276 | |
| | HLS RESEARCH, INC. | 89333 | 99 | RD | -351 | |
| | HONEYWELL INTERNATIONAL INC. | 350172674E | 99 | RD | 285,703 | |
| | HONEYWELL INTERNATIONAL INC. | 3502468901E | 99 | RD | 156,421 | |
| | HP INC. | CW2275044 | 99 | RD | 98,342 | |
| | HRL LABORATORIES, LLC | 16129-173125-OS | 99 | RD | 128,308 | |
| | HYPRES, INC. | 009530 | 99 | RD | 19,012 | |
| | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | D3987 | 99 | RD | 18,247 | |
| | INDIANA UNIVERSITY | IN4685446UCSF | 99 | RD | 4,418 | |
| | INFERLINK CORPORATION | 79046 | 99 | RD | 5,208 | |

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Schedule of Expenditures of Federal Awards
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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---------------------------------------|--|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| OTHER FEDERAL AGENCIES | INFOSCITEX CORPORATION | A16-0500-004 | 99 | RD | 15,151 | |
| | INTERNATIONAL BUSINESS MACHINES CORPORATION | W911NF-16-3-0001 | 99 | RD | 332,860 | |
| | INTERNATIONAL BUSINESS MACHINES CORPORATION | 4918005468 | 99 | RD | 56,860 | |
| | INTERNATIONAL BUSINESS MACHINES CORPORATION | CW2926115 | 99 | RD | 234,618 | |
| | IQ SOLUTIONS INC. | WERB09.20.17 | 99 | RD | 53,021 | |
| | IQ SOLUTIONS INC. | 8952F | 99 | RD | -4,928 | |
| | JET PROPULSION LABORATORY | A16-0081-001 | 99 | RD | 87,793 | |
| | JET PROPULSION LABORATORY | 11588413:001 | 99 | RD | 29,189 | |
| | JET PROPULSION LABORATORY | 1551859:002 | 99 | RD | 4,139 | |
| | JET PROPULSION LABORATORY | 1576352 | 99 | RD | 18,548 | |
| | JET PROPULSION LABORATORY | 1576353 | 99 | RD | 233,905 | |
| | JET PROPULSION LABORATORY | 1581189 | 99 | RD | 86,032 | |
| | JET PROPULSION LABORATORY | 1581439 | 99 | RD | 60,703 | |
| | JET PROPULSION LABORATORY | 1584220 | 99 | RD | 4,957 | |
| | JET PROPULSION LABORATORY | 1585610 | 99 | RD | 150,259 | |
| | JET PROPULSION LABORATORY | 1587173 | 99 | RD | 26,489 | |
| | JET PROPULSION LABORATORY | 1587256 | 99 | RD | 8,578 | |
| | JET PROPULSION LABORATORY | 1587312 | 99 | RD | 16,319 | |
| | JET PROPULSION LABORATORY | 1587430 | 99 | RD | 12,942 | |
| | JET PROPULSION LABORATORY | 1587490 | 99 | RD | 195,377 | |
| | JET PROPULSION LABORATORY | 1587631 | 99 | RD | 68,687 | |
| | JET PROPULSION LABORATORY | 1587992 | 99 | RD | 44,961 | |
| | JET PROPULSION LABORATORY | 1589511 | 99 | RD | 1,183 | |
| | JET PROPULSION LABORATORY | 1590154 | 99 | RD | 32,329 | |
| | JET PROPULSION LABORATORY | 1590158 | 99 | RD | 150,710 | |
| | JET PROPULSION LABORATORY | 1590202 | 99 | RD | 5,722 | |
| | JET PROPULSION LABORATORY | 1591172 | 99 | RD | 21,887 | |
| | JET PROPULSION LABORATORY | 1592509 | 99 | RD | 83,393 | |
| | JET PROPULSION LABORATORY | 1594502 | 99 | RD | 61,432 | |
| | JET PROPULSION LABORATORY | 1594653 | 99 | RD | 70,395 | |
| | JET PROPULSION LABORATORY | 1596092 | 99 | RD | 109,781 | |
| | JET PROPULSION LABORATORY | 1601851 | 99 | RD | 30,806 | |
| | JET PROPULSION LABORATORY | 1605992 | 99 | RD | 6,460 | |
| | JET PROPULSION LABORATORY | 57144 | 99 | RD | 72,780 | |
| | JET PROPULSION LABORATORY | 57566 | 99 | RD | -2,561 | |
| | JET PROPULSION LABORATORY | SUB1588114 (NONE) | 99 | RD | 46,773 | |
| | JET PROPULSION LABORATORY | 1385250:017 | 99 | RD | 41,892 | |
| | JET PROPULSION LABORATORY | 1424022:029 | 99 | RD | 46,991 | |
| | JET PROPULSION LABORATORY | 1525520:003 | 99 | RD | 89,982 | |
| | JET PROPULSION LABORATORY | 1561962:003 | 99 | RD | 24,978 | |
| | JET PROPULSION LABORATORY | 1564163 | 99 | RD | 27,436 | |
| | JET PROPULSION LABORATORY | 1568167:002 | 99 | RD | 18,405 | |
| | JET PROPULSION LABORATORY | 1578669:002 | 99 | RD | 862,787 | |
| | JET PROPULSION LABORATORY | 1580267:004 | 99 | RD | 382,938 | |
| | JET PROPULSION LABORATORY | 1581388 | 99 | RD | 5,583 | |
| | JET PROPULSION LABORATORY | 1585114 | 99 | RD | 10,620 | |
| | JET PROPULSION LABORATORY | 1589490:002 | 99 | RD | 15,713 | |
| | JET PROPULSION LABORATORY | 1591277:002 | 99 | RD | 376,017 | 10,115 |
| | JET PROPULSION LABORATORY | 1593244:002 | 99 | RD | 3,830 | |
| | JET PROPULSION LABORATORY | 1594400 | 99 | RD | 51,956 | |
| | JET PROPULSION LABORATORY | 1602115:001 | 99 | RD | 47,904 | |
| | JET PROPULSION LABORATORY | 1605109 | 99 | RD | 7,275 | |
| | JET PROPULSION LABORATORY | 1605140 | 99 | RD | 7,275 | |
| | JET PROPULSION LABORATORY | 1605150 | 99 | RD | 7,275 | |
| | JET PROPULSION LABORATORY | 1605352 | 99 | RD | 9,275 | |
| | JET PROPULSION LABORATORY | 1605816 | 99 | RD | 9,275 | |
| | JET PROPULSION LABORATORY | 1607035 | 99 | RD | 8,638 | |
| | JET PROPULSION LABORATORY | 1607668 | 99 | RD | 85,907 | |
| | JET PROPULSION LABORATORY | 1607936 | 99 | RD | 36,571 | |
| | JET PROPULSION LABORATORY | 1608885 | 99 | RD | 6,211 | |
| | JET PROPULSION LABORATORY | 1610641 | 99 | RD | 5,670 | |
| | JET PROPULSION LABORATORY | 1610879 | 99 | RD | 30,062 | |
| | JET PROPULSION LABORATORY | 1612338 | 99 | RD | 31,844 | |
| | JET PROPULSION LABORATORY | 1614568 | 99 | RD | 74,111 | |
| | JET PROPULSION LABORATORY | 1614619 | 99 | RD | 43,432 | |
| | JET PROPULSION LABORATORY | 1615143 | 99 | RD | 9,657 | |
| | JET PROPULSION LABORATORY | 1615472 | 99 | RD | 82,064 | |
| | JET PROPULSION LABORATORY | 1616122 | 99 | RD | 5,511 | |
| | JET PROPULSION LABORATORY | 1616469 | 99 | RD | 70,647 | |
| | JET PROPULSION LABORATORY | 1616608 | 99 | RD | 34,392 | |

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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---------------------------------------|--|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| OTHER FEDERAL AGENCIES | JET PROPULSION LABORATORY | 1617451 | 99 | RD | 120,981 | |
| | JET PROPULSION LABORATORY | 1617725 | 99 | RD | 3,351 | |
| | JET PROPULSION LABORATORY | 1620598 | 99 | RD | 23,252 | |
| | JET PROPULSION LABORATORY | 1622593 | 99 | RD | 9,005 | |
| | JET PROPULSION LABORATORY | 1623803-CYC1 | 99 | RD | 3,544 | |
| | JET PROPULSION LABORATORY | 78040 | 99 | RD | 25,587 | |
| | JET PROPULSION LABORATORY | 79220 | 99 | RD | -21,703 | |
| | JET PROPULSION LABORATORY | A18-0107 | 99 | RD | 22,537 | |
| | JET PROPULSION LABORATORY | 1576945 | 99 | RD | 47,104 | |
| | JET PROPULSION LABORATORY | 1578100:002 | 99 | RD | 13,923 | |
| | JET PROPULSION LABORATORY | 1587840 | 99 | RD | 18,605 | |
| | JET PROPULSION LABORATORY | 1591586 | 99 | RD | 7,399 | |
| | JET PROPULSION LABORATORY | 1595546 | 99 | RD | -39 | |
| | JET PROPULSION LABORATORY | 1599512 | 99 | RD | 5,271 | |
| | JET PROPULSION LABORATORY | 1599746 | 99 | RD | 108,150 | |
| | JET PROPULSION LABORATORY | 1603071:001 | 99 | RD | 67,644 | |
| | JET PROPULSION LABORATORY | 1606278 | 99 | RD | 42,101 | |
| | JET PROPULSION LABORATORY | 1607065 | 99 | RD | 8,186 | |
| | JET PROPULSION LABORATORY | 1607550 | 99 | RD | 14,753 | |
| | JET PROPULSION LABORATORY | 1612758 | 99 | RD | 121,682 | |
| | JET PROPULSION LABORATORY | 1623639 | 99 | RD | 66,766 | |
| | JET PROPULSION LABORATORY | 1625574 | 99 | RD | 729 | |
| | JET PROPULSION LABORATORY | 1626612 | 99 | RD | 8,612 | |
| | JET PROPULSION LABORATORY | 1628771 | 99 | RD | 17,440 | |
| | JOHNS HOPKINS UNIVERSITY | 118127:4 | 99 | RD | 5,784 | |
| | JOHNS HOPKINS UNIVERSITY | 042646 | 99 | RD | 24,907 | |
| | JOHNS HOPKINS UNIVERSITY | 20190850 | 99 | RD | 62,657 | |
| | KAISER PERMANENTE DIVISION OF RESEARCH | OOS030284 - UCSF | 99 | RD | 17,677 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | A17-0824-001 | 99 | RD | 23,222 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | 25035 | 99 | RD | -737 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | A17-0491-003 | 99 | RD | 66,803 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B623027 | 99 | RD | 74,604 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B627365 | 99 | RD | 88,686 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B628096 | 99 | RD | 306,219 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | SUB B626625 (B623353) | 99 | RD | 15,815 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | 86276 | 99 | RD | -334 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B618798:1 | 99 | RD | 64,622 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B629453 | 99 | RD | 47,288 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B630009 | 99 | RD | 52,752 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B631991 | 99 | RD | 27,212 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B632821 | 99 | RD | 9,139 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B633255 | 99 | RD | 49,112 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B633579 | 99 | RD | 3,665 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | SUB B629114 (B623353) | 99 | RD | 19,790 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | SUB B632472 (B623353) | 99 | RD | 94,447 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B625851 | 99 | RD | 24,118 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B626618 | 99 | RD | 163,651 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B627680 | 99 | RD | 12,235 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B628592 | 99 | RD | 79,829 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B628597 | 99 | RD | 105,000 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B629225 | 99 | RD | 97,952 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B630453 | 99 | RD | 99,820 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B631639 | 99 | RD | 44,054 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B618203 | 99 | RD | 40,505 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | B629734 | 99 | RD | 11,183 | |
| | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC | 26723 | 99 | RD | 1,013 | |
| | LEIDOS, INC. | 20180936 | 99 | RD | 551,501 | |
| | LEIDOS, INC. | P010123388 R7 | 99 | RD | 5,334 | |
| | LEIDOS, INC. | P010207183 TASK ORDER 1 | 99 | RD | 2,551 | |
| | LEIDOS, INC. | P010207183 TASK ORDER 2 | 99 | RD | 24,196 | |
| | LINKED, INC. | 20175172 | 99 | RD | 210,082 | |
| | LOCKHEED MARTIN CORPORATION | 59428 | 99 | RD | 2,258 | |
| | LOCKHEED MARTIN CORPORATION | 59438 | 99 | RD | 444 | |
| | LOCKHEED MARTIN CORPORATION | 4103676491 | 99 | RD | 24,924 | |
| | LOS ALAMOS NATIONAL SECURITY, LLC | 419069 | 99 | RD | 74,383 | |
| | LOS ALAMOS NATIONAL SECURITY, LLC | 466292 | 99 | RD | 133,003 | |
| | LOS ALAMOS NATIONAL SECURITY, LLC | 468451 | 99 | RD | 89,987 | |
| | LOS ALAMOS NATIONAL SECURITY, LLC | 411352:1 | 99 | RD | 22,707 | |
| | LOS ALAMOS NATIONAL SECURITY, LLC | 525705 | 99 | RD | 52,065 | |
| | LOS ALAMOS NATIONAL SECURITY, LLC | 77762 | 99 | RD | -5,343 | |

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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---------------------------------------|--|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| OTHER FEDERAL AGENCIES | LOS ALAMOS NATIONAL SECURITY, LLC | 442172 | 99 | RD | 18,949 | |
| | LOS ALAMOS NATIONAL SECURITY, LLC | 487034 | 99 | RD | 41,435 | |
| | LOS ANGELES POLICE FOUNDATION | 20144647 | 99 | RD | 35,187 | |
| | LOYOLA UNIVERSITY OF CHICAGO | SUB 206499 (DK104718) | 99 | RD | 120,458 | |
| | LUNA INNOVATIONS INCORPORATED | 3500.02UCSB | 99 | RD | 4,921 | |
| | LUNA INNOVATIONS INCORPORATED | 59436 | 99 | RD | 12,385 | |
| | MASSACHUSETTS GENERAL HOSPITAL | SUB 20162263(NS090259) | 99 | RD | 60,554 | |
| | MAXENTRIC TECHNOLOGIES LLC | SUB UCSD-4313-1 (W911QX-16-C-0 | 99 | RD | 73,521 | |
| | MAXENTRIC TECHNOLOGIES LLC | 20184852 | 99 | RD | 41,543 | |
| | MIDWEST RESEARCH INST | XEJ-9-82309-01:1 | 99 | RD | 41,945 | |
| | MIDWEST RESEARCH INST | XGJ-9-92039-01 | 99 | RD | 45,693 | |
| | MIDWEST RESEARCH INST | XEJ-8-82269-01 | 99 | RD | 2,672 | |
| | MOLECULAR EXPRESS | HHSN272201700081C | 99 | RD | 10,525 | |
| | MORTON PHOTONICS | MP-UCSB-05 | 99 | RD | 31,303 | |
| | MORTON PHOTONICS | MP-UCSB-06 | 99 | RD | 16,540 | |
| | MORTON PHOTONICS | MP-UCSB-08 | 99 | RD | 142,766 | |
| | MORTON PHOTONICS | MP-UCSB-09 | 99 | RD | 33,085 | |
| | MORTON PHOTONICS | MP-UCSB-10 | 99 | RD | 16,127 | |
| | MORTON PHOTONICS | MP-UCSB-11 | 99 | RD | 10,260 | |
| | MORTON PHOTONICS | MP-UCSB-12 | 99 | RD | 5,298 | |
| | NATIONAL ACADEMY OF SCIENCES | 2000008303 | 99 | RD | 103,954 | |
| | NATIONAL FISH AND WILDLIFE FOUNDATION | 0806.18.059767 | 99 | RD | 156,612 | |
| | NATIONAL FISH AND WILDLIFE FOUNDATION | 0806.18.059850 | 99 | RD | 97,439 | 4,988 |
| | NATIONAL FISH AND WILDLIFE FOUNDATION | SA17-3877-01 | 99 | RD | 19,763 | |
| | NEVADA SYSTEM OF HIGHER EDUCATION | UNR 17-70 | 99 | RD | 15,833 | |
| | NEW ENGLAND RESEARCH INSTITUTE, INC. | BEST-CLI | 99 | RD | 1,230 | |
| | NORTH PACIFIC RESEARCH BOARD | 26886 | 99 | RD | 53,199 | |
| | NORTHROP GRUMMAN CORPORATION | 8140000936 | 99 | RD | 70,898 | |
| | NORTHROP GRUMMAN CORPORATION | 79164 | 99 | RD | 559 | |
| | NORTHWESTERN UNIVERSITY | 010555 | 99 | RD | 76,357 | |
| | OAK RIDGE NATIONAL LABORATORY | 4000158675 | 99 | RD | 95,643 | |
| | OAK RIDGE NATIONAL LABORATORY | 010143 | 99 | RD | 90,183 | |
| | OAK RIDGE NATIONAL LABORATORY | 4000156470 | 99 | RD | 41,892 | |
| | OAK RIDGE NATIONAL LABORATORY | 4000164960 | 99 | RD | 285,231 | |
| | OAK RIDGE NATIONAL LABORATORY | 4000171188 | 99 | RD | -7,261 | |
| | OCEANIT LABORATORIES, INC. | 20174411 | 99 | RD | 72,680 | |
| | OEWAVES | 20175273 | 99 | RD | -612 | |
| | OEWAVES | 20185029 | 99 | RD | 37 | |
| | OREGON STATE UNIVERSITY | S1977A-B | 99 | RD | 23,534 | |
| | PACIFIC NORTHWEST NATIONAL LABORATORIES | 445977 | 99 | RD | 233,622 | |
| | PACIFIC NORTHWEST NATIONAL LABORATORIES | 455500 | 99 | RD | 30,321 | |
| | PACIFIC NORTHWEST NATIONAL LABORATORIES | 440551 | 99 | RD | 152,088 | |
| | PACIFIC NORTHWEST NATIONAL LABORATORIES | 26725 | 99 | RD | -8,540 | |
| | PALO ALTO RESEARCH CENTER | P314576 | 99 | RD | 218,231 | |
| | PELAGIQUE, LLC | W81XWH-16-C-0146 | 99 | RD | 264,794 | |
| | PELAGIQUE, LLC | 57044 | 99 | RD | -7 | |
| | PENNSYLVANIA STATE UNIVERSITY | S17-23 | 99 | RD | 265,713 | |
| | PHASE DIAGNOSTICS, INC. | 20170815 | 99 | RD | 86,048 | |
| | PHASE DIAGNOSTICS, INC. | 20170820 | 99 | RD | 129,202 | |
| | PHYSICAL SCIENCES INC. | 59594 | 99 | RD | -143 | |
| | PHYSICAL SCIENCES INC. | 83682-1991-46 | 99 | RD | 80,736 | |
| | PREDICTIVE SCIENCE INC. | 20154780:001 | 99 | RD | 131,892 | |
| | PRINCETON PLASMA PHYSICS LABORATORY | SUB S015887-C (DE-ACO2-09CH114 | 99 | RD | 53,108 | |
| | PRINCETON PLASMA PHYSICS LABORATORY | S015719-C | 99 | RD | 77,427 | |
| | PROFUSA, INC. | A132493 | 99 | RD | 17,406 | |
| | PUBLIC HEALTH INSTITUTE | SUB 01486 (18-95423) | 99 | RD | 6,112 | |
| | PUBLIC POLICY INSTITUTE OF CALIFORNIA | PPIC (20170091) IES | 99 | RD | 136,134 | |
| | Q-CHEM, INC. | 27844 | 99 | RD | 21,268 | |
| | QUESTEK INNOVATIONS LLC | 1597 | 99 | RD | 266,730 | 133,206 |
| | QUESTEK INNOVATIONS LLC | 010148 | 99 | RD | 85,190 | |
| | QUESTEK INNOVATIONS LLC | 86726 | 99 | RD | 7,500 | |
| | RADIABEAM TECHNOLOGIES, LLC | 20164153 | 99 | RD | 6,198 | |
| | RADIABEAM TECHNOLOGIES, LLC | 20164239 | 99 | RD | 65,807 | |
| | RADIABEAM TECHNOLOGIES, LLC | 20182362 | 99 | RD | 47,999 | |
| | RADIABEAM TECHNOLOGIES, LLC | 20182832 | 99 | RD | 35,294 | |
| | RADIABEAM TECHNOLOGIES, LLC | 20182840 | 99 | RD | 122,309 | |
| | RAND CORP | 9920180039 | 99 | RD | 156,089 | |
| | RAND CORP | 9920160065:03 | 99 | RD | 3,381 | |
| | RAYTHEON BBN TECHNOLOGIES CORP. | 90013 | 99 | RD | 476,636 | |
| | RAYTHEON BBN TECHNOLOGIES CORP. | 90056 | 99 | RD | 341,597 | |

UNIVERSITY OF CALIFORNIA
 Schedule of Expenditures of Federal Awards
 For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---------------------------------------|--|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| OTHER FEDERAL AGENCIES | RDRETC | 873G6 | 99 | RD | 538 | |
| | REMOTE SENSING SYSTEMS | 20192490 | 99 | RD | 80,246 | |
| | RICE UNIVERSITY | R18719 | 99 | RD | 151,068 | |
| | RICE UNIVERSITY | R53822 | 99 | RD | 16,923 | |
| | RIGHT TO CARE | 20175168 | 99 | RD | 138,825 | |
| | RTI INTERNATIONAL | 29-312-0214448-65402L | 99 | RD | 148,965 | |
| | SAN DIEGO COUNTY | SUB 554660 (NONE) | 99 | RD | 1,318,022 | |
| | SCARLESS LABORATORIES, INC | 5R44DE026080-02 | 99 | RD | 137,794 | |
| | SOCIAL AND SCIENTIFIC SYSTEMS, INC. | CRB-SSS-S-15-004566 | 99 | RD | 49,432 | |
| | SOCIAL AND SCIENTIFIC SYSTEMS, INC. | CRB-SSS-S-15-004631 | 99 | RD | 200,802 | |
| | SOCIAL AND SCIENTIFIC SYSTEMS, INC. | CRB-SSS-S-16-005087 | 99 | RD | 101,052 | |
| | SOCIAL AND SCIENTIFIC SYSTEMS, INC. | SUB CRB-SSS-S-15-004567 (HHSN2 | 99 | RD | 188,065 | |
| | SOCIAL AND SCIENTIFIC SYSTEMS, INC. | CRB-SSS-S-17-005215 | 99 | RD | 107,789 | |
| | SOCIAL AND SCIENTIFIC SYSTEMS, INC. | CRB-SSS-S-17-005217 | 99 | RD | 43,988 | |
| | SOCIAL AND SCIENTIFIC SYSTEMS, INC. | CRB-SSS-S-17-005252 | 99 | RD | 88,882 | |
| | SOCIAL AND SCIENTIFIC SYSTEMS, INC. | SUB 20173862(CRB-SSS-S-16-0050 | 99 | RD | 52,110 | |
| | SOCIAL AND SCIENTIFIC SYSTEMS, INC. | 79160 | 99 | RD | -484 | |
| | SOCIAL AND SCIENTIFIC SYSTEMS, INC. | SUB CRB-SSS-S-18-005449 (HHSN2 | 99 | RD | 6,164 | |
| | SOFIE BIOSCIENCES, INC | 2R44MH097271-05 | 99 | RD | 356,650 | |
| | SONOMA COUNTY WATER AGENCY | TW# 18/19-016 | 99 | RD | 69,515 | |
| | SOUTHERN METHODIST UNIVERSITY | 009930 | 99 | RD | 42,589 | |
| | SOUTHWEST RESEARCH INSTITUTE | J99010MO:11 | 99 | RD | 181,758 | |
| | SOUTHWEST RESEARCH INSTITUTE | J99090AD:1 | 99 | RD | 180,013 | 26,876 |
| | SRI INTERNATIONAL | P020682 | 99 | RD | 168,057 | |
| | SRI INTERNATIONAL | A17-0607-002 | 99 | RD | 198,107 | |
| | STANFORD UNIVERSITY | 63904 | 99 | RD | -377 | |
| | STATE UNIVERSITY OF NEW YORK | SUB 68799(DESC0012583) | 99 | RD | 185,624 | |
| | STATE UNIVERSITY SYSTEM OF FLORIDA | 16266110-03 | 99 | RD | 54,735 | |
| | SWOG | S1607 | 99 | RD | 34,441 | |
| | SYSTEM OF SYSTEMS SECURITY CONSORTIUM | SUB PLA-0009 (FA8750-16-9-9000 | 99 | RD | 89,593 | |
| | TELEDYNE TECHNOLOGIES, INC. | PO00130549 | 99 | RD | 165,129 | |
| | TELEDYNE TECHNOLOGIES, INC. | PO00140147 | 99 | RD | 92,146 | |
| | TELEDYNE TECHNOLOGIES, INC. | PO00144148 | 99 | RD | 190,035 | |
| | TEXAS A&M UNIVERSITY - COLLEGE STATION | AB0313907 | 99 | RD | 17,432 | |
| | THE UNIVERSITY OF ALABAMA (TUSCALOOSA) | A18-0360-S001 | 99 | RD | 54,398 | |
| | THE UNIVERSITY OF ALABAMA AT BIRMINGHAM | 000509388-TOLO-001 | 99 | RD | 148,380 | |
| | THINK-NOW INC. | 20154140 | 99 | RD | 8,814 | |
| | TOYON RESEARCH CORPORATION | SC18-F072-1 | 99 | RD | 19,103 | |
| | TOYON RESEARCH CORPORATION | SC18-F077-1 | 99 | RD | 13,223 | |
| | TOYON RESEARCH CORPORATION | SC19-F123-1 | 99 | RD | 38,331 | |
| | TOYON RESEARCH CORPORATION | SC19-F126-1 | 99 | RD | 48,277 | |
| | TOYON RESEARCH CORPORATION | SC19-F131-1 | 99 | RD | 23,981 | |
| | TRISTAN TECHNOLOGIES | 010503 | 99 | RD | 42,102 | |
| | TUNITAS THERAPEUTICS | 77997 | 99 | RD | -4,369 | |
| | UNITED PURPOSE | A16-0164-007 | 99 | RD | 32,589 | |
| | UNIVERSITIES RESEARCH ASSOCIATION (OPERATES FERMILAB) | 633547 | 99 | RD | 281,657 | |
| | UNIVERSITIES RESEARCH ASSOCIATION (OPERATES FERMILAB) | 653200 | 99 | RD | 30,387 | |
| | UNIVERSITIES RESEARCH ASSOCIATION (OPERATES FERMILAB) | 653349 | 99 | RD | 67,128 | |
| | UNIVERSITIES SPACE RESEARCH ASSOCIATION | SUB 08600-012 (NNA16BD14C) | 99 | RD | 37,167 | |
| | UNIVERSITIES SPACE RESEARCH ASSOCIATION | NAS2-97001 | 99 | RD | 43,649 | |
| | UNIVERSITY OF ARIZONA | 20152604 (HHSN2612012000311) | 99 | RD | 108,965 | |
| | UNIVERSITY OF ARIZONA | SUB 20160294 (HHSN261201200031 | 99 | RD | 27,349 | |
| | UNIVERSITY OF ARIZONA | 009643 | 99 | RD | 34,141 | |
| | UNIVERSITY OF COLORADO BOULDER | 1556355 | 99 | RD | 65,635 | |
| | UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE) | 1546525:1 | 99 | RD | 66,481 | |
| | UNIVERSITY OF HAWAII AT MANOA | MA1226 | 99 | RD | 11,730 | |
| | UNIVERSITY OF IOWA | 57016 | 99 | RD | -5,650 | |
| | UNIVERSITY OF IOWA | 1002082693:1 | 99 | RD | 51,168 | |
| | UNIVERSITY OF IOWA | 1002081198 | 99 | RD | 120,000 | |
| | UNIVERSITY OF MARYLAND | 59744-Z9177201 | 99 | RD | 152,733 | |
| | UNIVERSITY OF MARYLAND | 65579-Z9232201 | 99 | RD | 61,834 | |
| | UNIVERSITY OF MARYLAND | 70973-Z9307201 | 99 | RD | 194,283 | |
| | UNIVERSITY OF MEMPHIS | A17-0190-S005:3 | 99 | RD | 42,511 | |
| | UNIVERSITY OF MICHIGAN | 3004871545 | 99 | RD | 921 | |
| | UNIVERSITY OF MINNESOTA | A005821705:10 | 99 | RD | 26,617 | |
| | UNIVERSITY OF MISSISSIPPI | 66111350819-07 | 99 | RD | 14,896 | |
| | UNIVERSITY OF MISSISSIPPI | 66111320819-02 | 99 | RD | 7,148 | |
| | UNIVERSITY OF NEBRASKA | 26-0520-0187-003 | 99 | RD | 1,682 | |
| | UNIVERSITY OF NEW HAMPSHIRE | 17-007-07 | 99 | RD | 141,355 | |
| | UNIVERSITY OF NEW HAMPSHIRE | 06-001 | 99 | RD | 744,356 | 70,594 |

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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---------------------------------------|--|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| OTHER FEDERAL AGENCIES | UNIVERSITY OF NOTRE DAME (INCL GEM) | 203278UCB | 99 | RD | 1,019,941 | |
| | UNIVERSITY OF NOTRE DAME (INCL GEM) | 203278UCSB | 99 | RD | 378,956 | |
| | UNIVERSITY OF PENNSYLVANIA | 567391 | 99 | RD | 92,870 | |
| | UNIVERSITY OF PITTSBURGH | 0024031-5:05 | 99 | RD | 49,980 | |
| | UNIVERSITY OF PITTSBURGH | 0051433-1 | 99 | RD | 13,427 | |
| | UNIVERSITY OF PITTSBURGH | 0051433-5 | 99 | RD | 64,890 | |
| | UNIVERSITY OF SOUTH FLORIDA | A16-0255-003 | 99 | RD | 8,763 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | SUB 77364731(WEI1675-1915) | 99 | RD | 6,711 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 95781679 | 99 | RD | 46,588 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 95994470 | 99 | RD | 970,064 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 107627989 | 99 | RD | 146,267 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 107691279 | 99 | RD | 17,023 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 109129159 | 99 | RD | 49,872 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 115250657-CYC1 | 99 | RD | 5,513 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 77793929:2 | 99 | RD | 31,957 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | D2947 | 99 | RD | 27,589 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 114482400 | 99 | RD | 24,323 | |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | 90121560 | 99 | RD | 351,461 | |
| | UNIVERSITY OF UTAH | 009346 | 99 | RD | 41,328 | |
| | UNIVERSITY OF VIRGINIA | G118518.156867 | 99 | RD | 744,317 | |
| | UNIVERSITY OF VIRGINIA | G118518.156870 | 99 | RD | 401,817 | |
| | VANDERBILT UNIVERSITY | SUB VUMC 44030 (HHSN2722014000 | 99 | RD | 40,297 | |
| | VAULT NANO INC. | 20191510 | 99 | RD | 19,824 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA BAKER (W81XWH-16-1-0015) | 99 | RD | 6,981 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA IX (322169) (14EIA18560026 | 99 | RD | 35,507 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA IX (DK111510) | 99 | RD | 46,628 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA MORLAND (W81XWH-12-1-0614) | 99 | RD | 34,629 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA SPINA SUB 103475877 (A1036 | 99 | RD | 27,397 | |
| | VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO | VPA STONEHAM (A1140991) | 99 | RD | 38,760 | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | 59909 | 99 | RD | -7,337 | |
| | WESTAT | SUB 6410-S-02 (HHSN27120160000 | 99 | RD | 7,299 | |
| | WESTAT | 6182-S24 | 99 | RD | 6,102 | |
| | WESTAT | 6579-S11/ HHSN275201800001 | 99 | RD | 724,356 | |
| | WESTAT | 77772 | 99 | RD | -19,816 | |
| | WESTAT | B5445 | 99 | RD | -38,007 | |
| | WOODS HOLE OCEANOGRAPHIC INSTITUTION | A101326 | 99 | RD | 80,895 | |
| | WYLE LABORATORIES | T73047 | 99 | RD | 65,613 | |
| | ZYMERGEN, INC. | 4282 | 99 | RD | 60,810 | |
| | THE GAIA MEDICAL INSTITUTE LLC | SUB 20183636 (HD090817) | 99 | RD | 99,704 | |
| | INTERNATIONAL COMPUTER SCIENCE INSTITUTE | 27500-1 | 99 | RD | 120,781 | |
| | SEMICONDUCTOR RESEARCH CORPORATION | 2018-JU-2778 | 99 | RD | 5,119,894 | 2,940,647 |
| | SEMICONDUCTOR RESEARCH CORPORATION | 57326 | 99 | RD | 85,931 | |
| | CALTRANS CALIFORNIA DEPARTMENT OF TRANSPORTATION | 65A0638 | 99 | RD | 372,846 | |
| | AUTOMATE SCIENTIFIC, INC. | NIH/NIDA 1R41DA044788-01 | 99 | RD | 80,343 | |
| | BECHTEL CORPORATION | 120366 | 99 | RD | 63,417 | |
| | GEOSYNTEC CONSULTANTS | 1972PFAS-1 | 99 | RD | 69,914 | |
| | 10DBX LLC | 10DBX 7243-2017-2767 | 99 | RD | 31,331 | |
| | ACTASYS INC. | 77767 | 99 | RD | 1,471 | |
| | ACTASYS INC. | 80NSSC18C0028 | 99 | RD | 64,022 | |
| | APTIMA, INC. | SUB 1238-2063 (W81XWH-18-C-031 | 99 | RD | 25,503 | |
| | BURLESON CONSULTING, INC. | SNA-001 | 99 | RD | 46,983 | |
| | CALIFORNIA ASSOCIATION OF SANITATION AGENCIES | 17-DG-11052021 | 99 | RD | 42,620 | |
| | CALIFORNIA OLIVE COMMITTEE | A18-0057 | 99 | RD | 26,820 | |
| | DIAGNOSTIC BIOCHIPS, INC. | 2017-UCSB-001 | 99 | RD | 21,252 | |
| | FENWAY HEALTH | 422-UCLA:1 | 99 | RD | 5,436 | |
| | FIRST RF CORPORATION | SUB T20136 (W31P4Q-17-C-0097) | 99 | RD | 49,516 | |
| | FIRST RF CORPORATION | SUB T20539 (FA8750-18-C-0060) | 99 | RD | 44,651 | |
| | FORWARD PHOTONICS, LLC | N17A-T006 | 99 | RD | 683 | |
| | FORWARD PHOTONICS, LLC | 20183067 | 99 | RD | 48,898 | |
| | GARVAN INSTITUTE OF MEDICAL RESEARCH | APP1122227 | 99 | RD | 48,948 | |
| | HENNEPIN HEALTHCARE RESEARCH INSTITUTE | 20180148 | 99 | RD | 14,753 | |
| | HENNINGSON, DURHAM & RICHARDSON, INC. | HDR MSA 1000300000780, TO 1 - | 99 | RD | 223,577 | |
| | JP ANALYTICS, LLC | CV17001 | 99 | RD | -8,769 | |
| | NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC | 1862252 | 99 | RD | 79,455 | |
| | NUMERATE, INC. | 1R43HL139143-01 | 99 | RD | 18,373 | |
| | NUMERATE, INC. | 78132 | 99 | RD | 13,596 | |
| | OPERANT SOLAR CORPORATION | 57114 | 99 | RD | 46,569 | |
| | PANERATECH, INC. | 79383 | 99 | RD | -479 | |
| | SEGANA LLC | 78107 | 99 | RD | 15,595 | |
| | SPACE SCIENCES INNOVATIONS INC. | 20181667 | 99 | RD | 27,392 | |

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| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---------------------------------------|--|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| OTHER FEDERAL AGENCIES | SURFORCE, LLC | SB180082 | 99 | RD | 270 | |
| | POPULATION SERVICES INTERNATIONAL | 4442-UCSF-23 APR 18 | 99 | RD | 310,262 | |
| | GUIDESTAR OPTICAL SYSTEMS, INC. | PO730-20180815 | 99 | RD | 36,319 | |
| | MANUFACTURING TECHNIQUES, INC. | 35696 | 99 | RD | 21,744 | |
| | UES, INC. | S-111-049-001 | 99 | RD | 2,150 | |
| | SETI INSTITUTE | 009725 | 99 | RD | 128,067 | |
| | CALIFORNIA STATE UNIVERSITY | X0131117-UCSBO | 99 | RD | 4,670 | |
| | CHARLES STARK DRAPER LABORATORY, INC. | 873FD | 99 | RD | -235 | |
| | CHARLES STARK DRAPER LABORATORY, INC. | SB180177 | 99 | RD | 78,811 | |
| | SLAC NATIONAL ACCELERATOR LABORATORY | 186496 | 99 | RD | 74,974 | |
| | SLAC NATIONAL ACCELERATOR LABORATORY | 189155 | 99 | RD | 25,706 | |
| | TRIAD NATIONAL SECURITY, LLC | 521997 | 99 | RD | 6,281 | |
| | BIOMIMETIX JV, LLC | BMX-HN-001 | 99 | RD | 15,132 | |
| | ICF INTERNATIONAL, INC. | TASK 0028 | 99 | RD | 13,759 | |
| | ICF INTERNATIONAL, INC. | TASK32 | 99 | RD | 15,606 | |
| | THE EMMES COMPANY, LLC | 20182357 | 99 | RD | 7,564 | |
| | U.S. Highbush Blueberry Council | 201700387 | 99 | RD | 9,573 | 8,673 |
| | U.S. Highbush Blueberry Council | 20170763 | 99 | RD | -73 | |
| | ADVANCED LIFE TECHNOLOGIES LLC | W81XWH18C0095 | 99 | RD | 7,210 | |
| | ALLERGAN INC. | 6718 | 99 | RD | -2 | |
| | ARETE ASSOCIATES, INC. | AZ-401259 | 99 | RD | 24,872 | |
| | ATANALYTICS | AT-SC001 | 99 | RD | 34,795 | |
| | ATOM OPTOELECTRONICS INC. | W911NF19P0026 | 99 | RD | 11,630 | |
| | BATTELLE ENERGY ALLIANCE, LLC (BEA) | 197743 | 99 | RD | 308 | |
| | CALIFORNIA RURAL INDIAN HEALTH BOARD, INC. | 20184458 | 99 | RD | 414,219 | 326,000 |
| | CHEMELECTRONICS LLC | 20190862 | 99 | RD | 34,052 | |
| | DAVREN US NUTS LLC | SA19-0065 | 99 | RD | 7,153 | |
| | FLORIDA AGRICULTURAL AND MECHANICAL UNIVERSITY | C-5000 FAMU # 005994 | 99 | RD | 69,644 | |
| | GENXCOMM, INC. | 062218-1 | 99 | RD | 96,699 | |
| | IMS GOVERNMENT SOLUTIONS INC. | 2017-IMS-SC-UCLA001 | 99 | RD | 26,162 | |
| | IMS GOVERNMENT SOLUTIONS INC. | 2017-IMS-SC-UCLA002 | 99 | RD | 10,138 | |
| | LONGWAVE PHOTONICS LLC | 20183560 | 99 | RD | 40,874 | |
| | MEDICAL SCIENCE AND COMPUTING, LLC | S-2018-001-UCSF-BCBB | 99 | RD | 74,119 | |
| | MISSION SUPPORT AND TEST SERVICES LLC | 144064-07 | 99 | RD | 81,390 | |
| | NATIONAL KIDNEY FOUNDATION | 4063 | 99 | RD | 10,360 | |
| | NEXUS PHOTONICS, LLC | 80NSSC18P2147 | 99 | RD | 46,494 | |
| | NIMBIS SERVICES | NIMBIS-F-1605-UCSB | 99 | RD | 71,670 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84238 - 01 - 444957 | 99 | RD | 47,539 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84009 - 02 - 444988 | 99 | RD | 175,337 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84014 - 02 - 444988 | 99 | RD | 25,929 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84041 - 02 - 444988 | 99 | RD | 57,975 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84053 - 02 - 444951 | 99 | RD | 9,857 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84057 - 02 - 444951 | 99 | RD | 110,727 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84076 - 02 - 444988 | 99 | RD | 127,817 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84082 - 02 - 444988 | 99 | RD | 106,804 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84097 - 02 - 444653 | 99 | RD | 109,423 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84098 - 02 - 444988 | 99 | RD | 66,220 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84126 - 02 - 444653 | 99 | RD | 139,916 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84127 - 02 - 444988 | 99 | RD | 140,241 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84128 - 02 - 444653 | 99 | RD | 7,975 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84132 - 02 - 444988 | 99 | RD | 27,462 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84140 - 02 - 444947 | 99 | RD | 42,216 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84151 - 02 - 444949 | 99 | RD | 5,954 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84153 - 02 - 444988 | 99 | RD | 79,277 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84162 - 02 - 444988 | 99 | RD | 61,757 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84166 - 02 - 444988 | 99 | RD | 31,935 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84184 - 02 - 444951 | 99 | RD | 37,698 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84188 - 02 - 444949 | 99 | RD | 62,936 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84193 - 02 - 444927 | 99 | RD | 40,928 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84195 - 02 - 444988 | 99 | RD | 15,496 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84201 - 01 - 557755 | 99 | RD | 15,143 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84204 - 01 - 444988 | 99 | RD | 94,012 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84205 - 01 - 446306 | 99 | RD | 30,940 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84211 - 01 - 444653 | 99 | RD | 70,171 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84215 - 01 - 444988 | 99 | RD | 25,304 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84218 - 01 - 444955 | 99 | RD | 185,928 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84219 - 01 - 444908 | 99 | RD | 22,801 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84220 - 01 - 444951 | 99 | RD | 256,787 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84224 - 01 - 444988 | 99 | RD | 24,908 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84227 - 01 - 444653 | 99 | RD | 113,674 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|--|--|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| OTHER FEDERAL AGENCIES | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84235 - 01 - 444956 | 99 | RD | 16,823 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84236 - 01 - 444938 | 99 | RD | 67,055 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84237 - 01 - 558109 | 99 | RD | 18,626 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84240 - 01 - 444956 | 99 | RD | 20,952 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84241 - 01 - 444956 | 99 | RD | 72,311 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84246 - 01 - 444988 | 99 | RD | 232,491 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | JPA - CHEN, TSUI-HUA | 99 | RD | 69,266 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | JPA - COHEN, BETH | 99 | RD | 54,676 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | JPA - HAAN, MARY | 99 | RD | 3,116 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | JPA - HARALDSSON | 99 | RD | 15,760 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | JPA - LEE, SEI | 99 | RD | 130,590 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | JPA - MACKIN, ROBERT | 99 | RD | 27,655 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | JPA - MAGUEN | 99 | RD | 77,178 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | JPA - MAKLASHINA | 99 | RD | 164,707 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | JPA - MUKHERJEE | 99 | RD | 32,470 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | JPA - SALONER, DAVID | 99 | RD | 31,945 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | JPA - SUDORE, REBECCA | 99 | RD | 54,208 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | JPA - TANNER | 99 | RD | 10,012 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | JPA - GOLDMAN, SAMUEL | 99 | RD | 39,748 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | JPA - HENDERSON SABES | 99 | RD | 15,586 | |
| | NOVARTIS AG | CRAD001CUS168T | 99 | RD | -1,121 | |
| | OAK RIDGE ASSOCIATED UNIVERSITIES | SB190033 | 99 | RD | 150 | |
| | PHYSICAL OPTICS CORPORATION | 010133 | 99 | RD | 15,000 | |
| | POPULATION HEALTH RESEARCH INSTITUTE | 2018-2167-PHRI | 99 | RD | 4,160 | |
| | POWERTRAIN INC. | PURCHASE ORDER 180815-1 | 99 | RD | 646,553 | |
| | POWERTRAIN INC. | PURCHASE ORDER 180926-1 | 99 | RD | 378,242 | |
| | POWERTRAIN INC. | PURCHASE ORDER 180928-02 | 99 | RD | 594,365 | 278,820 |
| | QR PHARMA, INC | 79179 | 99 | RD | 2 | |
| | QUINC.TECH LLC | QUINC.TECH 12859-2018-2688 | 99 | RD | 57,767 | |
| | SA PHOTONICS, INC. | 1053-UCLA0718 | 99 | RD | 38,105 | |
| | SARCOMA ALLIANCE THROUGH RESEARCH COLLABORATION | 20183843 | 99 | RD | 43,636 | |
| | SILVUS TECHNOLOGIES INC. | SK001-19-UCLA-RFA | 99 | RD | 9,023 | |
| | SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS | 19-024-C01 | 99 | RD | 1,570 | |
| | SPR THERAPEUTICS, INC | 20192736 | 99 | RD | 14,091 | |
| | THE SOUTHERN COMPANY | SCS10368115 | 99 | RD | 601,882 | 243,385 |
| | TRANSPARENT ARMOR SOLUTIONS INC. | 20192165 | 99 | RD | 30,345 | |
| | UNDERSEA TECHNOLOGY INNOVATION CONSORTIUM | UTIC 2018-476 PROJECT AGREEMEN | 99 | RD | 111,342 | 50,012 |
| | | | | | 51,588,495 | 4,120,140 |
| OTHER FEDERAL AGENCIES Total | | | | | 51,588,495 | 4,120,140 |
| RESEARCH AND DEVELOPMENT | Total | | | | 3,782,198,098 | 466,768,180 |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES - TITLE IV-E FOSTER CARE PROGRAM CLUSTER | | | | | | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | | | | | | |
| | Passthrough/Partial Passthrough | | | | | |
| | ALPINE, COUNTY OF | C000113661 | 93 | 658 | 9,712 | |
| | ALPINE, COUNTY OF | CC2018-15 | 93 | 658 | 1,148 | |
| | AMADOR, COUNTY OF | C000113818 | 93 | 658 | 15,463 | |
| | CALIFORNIA DEPARTMENT OF SOCIAL SERVICES | 15-IA-01124 | 93 | 658 | 131,196 | 4,265 |
| | CALIFORNIA DEPARTMENT OF SOCIAL SERVICES | 16-IA-00775 | 93 | 658 | 5,774,739 | 5,708,802 |
| | CALIFORNIA DEPARTMENT OF SOCIAL SERVICES | 16-IA-00870 | 93 | 658 | 21,525 | |
| | CALIFORNIA DEPARTMENT OF SOCIAL SERVICES | 33475 | 93 | 658 | 3 | |
| | CALIFORNIA DEPARTMENT OF SOCIAL SERVICES | 15-IA-01125 | 93 | 658 | 60,340 | |
| | CALIFORNIA DEPARTMENT OF SOCIAL SERVICES | 17-3027 | 93 | 658 | 2,076,597 | |
| | CALIFORNIA DEPARTMENT OF SOCIAL SERVICES | 18-3029 | 93 | 658 | 653,783 | |
| | CALIFORNIA DEPARTMENT OF SOCIAL SERVICES | 18-3016 | 93 | 658 | 1,869,564 | |
| | CALIFORNIA DEPARTMENT OF SOCIAL SERVICES | 28950 | 93 | 658 | -1,092 | |
| | CALIFORNIA DEPARTMENT OF SOCIAL SERVICES | 28961 | 93 | 658 | -11,152 | |
| | CALIFORNIA DEPARTMENT OF SOCIAL SERVICES | 18-3026 | 93 | 658 | 2,806,969 | 59,152 |
| | CALIFORNIA DEPARTMENT OF SOCIAL SERVICES | 18-3028 | 93 | 658 | 16,797,925 | 13,795,897 |
| | COUNTY OF SONOMA | C000113777 | 93 | 658 | 29,637 | |
| | FRESNO COUNTY | C000113590 | 93 | 658 | 219,211 | |
| | GLENN, COUNTY OF | CMS-2017-09 | 93 | 658 | 1,131 | |
| | GLENN, COUNTY OF | C000113767 | 93 | 658 | 158,046 | |
| | INYO, COUNTY OF | EW-2017-11 | 93 | 658 | 402 | |
| | INYO, COUNTY OF | C000113814 | 93 | 658 | 44,498 | |
| | LAKE, COUNTY OF | CW-2017-14 | 93 | 658 | -541 | |
| | MADERA, COUNTY OF | C000113840 | 93 | 658 | 45,900 | |
| | MENDOCINO, COUNTY OF | C000113527 | 93 | 658 | 252 | |
| | MENDOCINO, COUNTY OF | C000113755 | 93 | 658 | 25,500 | |
| | MENDOCINO, COUNTY OF | C000113756 | 93 | 658 | 5,100 | |
| | MERCED, COUNTY OF | CW-2018-19 | 93 | 658 | 51,000 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|---|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | MERCED, COUNTY OF | EW-2018-19 | 93 | 658 | 103,770 | |
| | MODOC, COUNTY OF | C000113789 | 93 | 658 | 8,530 | |
| | MONO, COUNTY OF | C000113649 | 93 | 658 | 11,519 | |
| | NAPA, COUNTY OF | C000113705 | 93 | 658 | 7,650 | |
| | NEVADA, COUNTY OF | 84A24 | 93 | 658 | -143 | |
| | NEVADA, COUNTY OF | C000113769 | 93 | 658 | 6,923 | |
| | PLACER, COUNTY OF | CW-2017-25 | 93 | 658 | 440 | |
| | PLACER, COUNTY OF | C000113812 | 93 | 658 | 13,027 | |
| | PLUMAS, COUNTY OF | CW-2017-26 | 93 | 658 | 1,063 | |
| | PLUMAS, COUNTY OF | C000113837 | 93 | 658 | 8,962 | |
| | SACRAMENTO, COUNTY OF | 720500018314 | 93 | 658 | -6,378 | |
| | SACRAMENTO, COUNTY OF | 720500018585 | 93 | 658 | 2,107 | |
| | SACRAMENTO, COUNTY OF | 7805000-19-314 | 93 | 658 | 127,036 | |
| | SACRAMENTO, COUNTY OF | 7805000-19-585 | 93 | 658 | 107,757 | |
| | SAN JOAQUIN COUNTY | CW-2017-28 | 93 | 658 | -1,225 | |
| | SAN JOAQUIN COUNTY | 80A24 | 93 | 658 | 2,177 | |
| | SAN JOAQUIN COUNTY | C000113815 | 93 | 658 | 25,039 | |
| | SANTA CRUZ, COUNTY OF | 84A08 | 93 | 658 | -234 | |
| | SHASTA, COUNTY OF | 81A38 | 93 | 658 | -8,295 | |
| | SHASTA, COUNTY OF | CW-2018-29 | 93 | 658 | 7,797 | |
| | SHASTA, COUNTY OF | GENT-2018-29 | 93 | 658 | 40,545 | |
| | TEHAMA, COUNTY OF | C000113759 | 93 | 658 | 3,432 | |
| | TUOLUMNE, COUNTY OF | C000113816 | 93 | 658 | 6,775 | |
| | VENTURA COUNTY | 37B33 | 93 | 658 | 2,400 | |
| | VENTURA COUNTY | C000113793 | 93 | 658 | 22,864 | |
| | | | | | 31,280,392 | 19,568,116 |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES Total | | | | | 31,280,392 | 19,568,116 |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES - TITLE IV-E FOSTER CARE PROGRAM CLUSTER Total | | | | | 31,280,392 | 19,568,116 |
| SNAP Cluster | | | | | | |
| DEPARTMENT OF AGRICULTURE | | | | | | |
| | Passthrough/Partial Passthrough | | | | | |
| | ALAMEDA COUNTY | 23C09 | 10 | 561 | 10,440 | |
| | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 73B01 | 10 | 561 | 1,848,895 | 9,187 |
| | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | A17-0400 | 10 | 561 | 88,235 | |
| | CALIFORNIA DEPARTMENT OF SOCIAL SERVICES | 88296 | 10 | 561 | -244 | |
| | CALIFORNIA DEPARTMENT OF SOCIAL SERVICES | 88494 | 10 | 561 | -356,794 | -153,304 |
| | CALIFORNIA DEPARTMENT OF SOCIAL SERVICES | 37B00 | 10 | 561 | 6,355,039 | 324,325 |
| | CALIFORNIA DEPARTMENT OF SOCIAL SERVICES | 18-3056 | 10 | 561 | 1,660,551 | 126,437 |
| | CALIFORNIA DEPARTMENT OF SOCIAL SERVICES | 22C75 | 10 | 561 | 6,321,151 | |
| | CALIFORNIA DEPARTMENT OF SOCIAL SERVICES | 25857 | 10 | 561 | 89 | |
| | CALIFORNIA DEPARTMENT OF SOCIAL SERVICES | 25879 | 10 | 561 | 8 | |
| | MONO, COUNTY OF | EW-2018-21 | 10 | 561 | 21,548 | |
| | CALIFORNIA STATE UNIVERSITY CHICO/CSU CHICO RESEARCH FOUNDATION | 18-7015 | 10 | 561 | 33,200 | |
| | CALIFORNIA STATE UNIVERSITY CHICO/CSU CHICO RESEARCH FOUNDATION | SUB 18-051(18-7015) | 10 | 561 | 12,297 | |
| | CALIFORNIA STATE UNIVERSITY CHICO/CSU CHICO RESEARCH FOUNDATION | SUB18-049 | 10 | 561 | 13,638 | |
| | | | | | 16,008,053 | 306,645 |
| DEPARTMENT OF AGRICULTURE Total | | | | | 16,008,053 | 306,645 |
| SNAP Cluster Total | | | | | | |
| Health Center Program Cluster | | | | | | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | | | | | | |
| | Passthrough/Partial Passthrough | | | | | |
| | NORTHEAST VALLEY HEALTH CORPORATION | 20141037 | 93 | 224 | 456,986 | |
| | NORTHEAST VALLEY HEALTH CORPORATION | 57155 | 93 | 224 | -294 | |
| | | | | | 456,693 | |
| | Direct | | | | | |
| | HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION | VARIOUS | 93 | 527 | 1,576,758 | |
| | | | | | 1,576,758 | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES Total | | | | | 2,033,451 | |
| Health Center Program Cluster Total | | | | | 2,033,451 | |
| Medicaid Cluster | | | | | | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | | | | | | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA DEPARTMENT OF HEALTH CARE SERVICES | 16-93578 | 93 | 778 | 4,847,745 | 2,611,920 |
| | CITY AND COUNTY OF SAN FRANCISCO | D3247 | 93 | 778 | 307,163 | |
| | COUNTY OF SONOMA | C000113778 | 93 | 778 | 38,538 | |
| | SAN JOAQUIN COUNTY | C000113849 | 93 | 778 | 25,016 | |
| | SAN JOAQUIN COUNTY | C000113850 | 93 | 778 | 5,100 | |
| | | | | | 5,223,562 | 2,611,920 |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES Total | | | | | 5,223,562 | 2,611,920 |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|--|---|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| Medicaid Cluster Total | | | | | 5,223,562 | 2,611,920 |
| Fish and Wildlife Cluster | | | | | | |
| DEPARTMENT OF INTERIOR | | | | | | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE | P1760025 | 15 | 611 | 70,948 | |
| | CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE | P1760026 | 15 | 611 | 127,852 | 109,282 |
| | | | | | 198,799 | 109,282 |
| DEPARTMENT OF INTERIOR Total | | | | | 198,799 | 109,282 |
| Fish and Wildlife Cluster Total | | | | | 198,799 | 109,282 |
| Highway Planning and Construction Cluster | | | | | | |
| DEPARTMENT OF TRANSPORTATION | | | | | | |
| | Passthrough/Partial Passthrough | | | | | |
| | TEXAS A&M UNIVERSITY - COLLEGE STATION | 009196 | 20 | 205 | 70,883 | |
| | CALTRANS CALIFORNIA DEPARTMENT OF TRANSPORTATION | 65A0697-CYC1 | 20 | 205 | 24,627 | |
| | | | | | 95,510 | |
| DEPARTMENT OF TRANSPORTATION Total | | | | | 95,510 | |
| Highway Planning and Construction Cluster Total | | | | | 95,510 | |
| Economic Development Cluster | | | | | | |
| DEPARTMENT OF COMMERCE | | | | | | |
| | Direct | | | | | |
| | DEPARTMENT OF COMMERCE | VARIOUS | 11 | 307 | 176,106 | |
| | | | | | 176,106 | |
| DEPARTMENT OF COMMERCE Total | | | | | 176,106 | |
| Economic Development Cluster Total | | | | | 176,106 | |
| HOPE VI Cluster | | | | | | |
| DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT | | | | | | |
| | Passthrough/Partial Passthrough | | | | | |
| | URBAN STRATEGIES INC. | A19-2689 | 14 | 889 | 5,479 | |
| | | | | | 5,479 | |
| DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT Total | | | | | 5,479 | |
| HOPE VI Cluster Total | | | | | 5,479 | |
| 477 Cluster | | | | | | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | | | | | | |
| | Passthrough/Partial Passthrough | | | | | |
| | ALAMEDA COUNTY | 201602383 | 93 | 558 | 231,478 | |
| | ALPINE, COUNTY OF | EW-2017-01 | 93 | 558 | -3,187 | |
| | ALPINE, COUNTY OF | C000113822 | 93 | 558 | 14,025 | |
| | ALPINE, COUNTY OF | C000113823 | 93 | 558 | 13,898 | |
| | ALPINE, COUNTY OF | WK-2017-01 | 93 | 558 | 5,100 | |
| | AMADOR, COUNTY OF | EW-2017-02 | 93 | 558 | 26 | |
| | AMADOR, COUNTY OF | C000113776 | 93 | 558 | 14,663 | |
| | BUTTE, COUNTY OF | X22738 | 93 | 558 | 2,510 | |
| | BUTTE, COUNTY OF | 81A36 | 93 | 558 | 4,266 | |
| | BUTTE, COUNTY OF | C000113700 | 93 | 558 | 11,730 | |
| | CALAVERAS, COUNTY OF | C000113882 | 93 | 558 | 7,650 | |
| | CITY OF LOS ANGELES ECONOMIC AND WORKFORCE DEVELOPMENT DEPARTMENT | C-130396 | 93 | 558 | -3,076 | |
| | COLUSA, COUNTY OF | 72B30 | 93 | 558 | -5,980 | |
| | COLUSA, COUNTY OF | C17-176 | 93 | 558 | 425 | |
| | COLUSA, COUNTY OF | C000113781 | 93 | 558 | 85,170 | |
| | COLUSA, COUNTY OF | C000113827 | 93 | 558 | 2,550 | |
| | COUNTY OF MARIN | C000113813 | 93 | 558 | 96,064 | |
| | COUNTY OF MARIN | C000113835 | 93 | 558 | 8,283 | |
| | COUNTY OF SOLANO | 84A10 | 93 | 558 | -1,185 | |
| | COUNTY OF SOLANO | C000113715 | 93 | 558 | 63,495 | |
| | COUNTY OF SONOMA | C000113779 | 93 | 558 | 36,968 | |
| | DEL NORTE COUNTY | C000113798 | 93 | 558 | 40,928 | |
| | EL DORADO, COUNTY OF | EW-2015-07 | 93 | 558 | -12,265 | |
| | EL DORADO, COUNTY OF | C000113751 | 93 | 558 | 70,423 | |
| | GLENN, COUNTY OF | EW-2017-09 | 93 | 558 | 8,798 | |
| | GLENN, COUNTY OF | C000113829 | 93 | 558 | 39,525 | |
| | HUMBOLDT COUNTY | A19-1872 | 93 | 558 | 94,848 | |
| | KERN COUNTY | A19-1468 | 93 | 558 | 105,395 | |
| | KINGS, COUNTY OF | C000113752 | 93 | 558 | 65,760 | |
| | KINGS, COUNTY OF | C000113754 | 93 | 558 | 61,837 | |
| | LAKE, COUNTY OF | EW-2017-14 | 93 | 558 | -6,375 | |
| | LAKE, COUNTY OF | C000113701 | 93 | 558 | 58,395 | |
| | LAKE, COUNTY OF | C000113866 | 93 | 558 | 12,750 | |
| | MADERA, COUNTY OF | C000113839 | 93 | 558 | 102,637 | |
| | MARIPOSA, COUNTY OF | EW-2018-18 | 93 | 558 | 49,598 | |
| | MERCED, COUNTY OF | C000113757 | 93 | 558 | 41,077 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---|--|--|----------------|-----------|----------------------|------------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | MODOC, COUNTY OF | C000113758 | 93 | 558 | 71,273 | | |
| | MONO, COUNTY OF | CW-2017-21 | 93 | 558 | 76 | | |
| | MONTEREY COUNTY | 84A05 | 93 | 558 | 4,840 | | |
| | MONTEREY COUNTY | A-13564 | 93 | 558 | -7,800 | | |
| | MONTEREY COUNTY | C000113824 | 93 | 558 | 143,814 | | |
| | NAPA, COUNTY OF | 81A29 | 93 | 558 | -944 | | |
| | NAPA, COUNTY OF | C000113704 | 93 | 558 | 98,685 | | |
| | NEVADA, COUNTY OF | EW-2017-24 | 93 | 558 | -2,678 | | |
| | NEVADA, COUNTY OF | 18-266 | 93 | 558 | 59,288 | | |
| | PLACER, COUNTY OF | C000113707 | 93 | 558 | 31,800 | | |
| | PLUMAS, COUNTY OF | C000113803 | 93 | 558 | 34,425 | | |
| | SAN BENITO, COUNTY OF | C000113842 | 93 | 558 | 22,950 | | |
| | SAN BENITO, COUNTY OF | C000113843 | 93 | 558 | 38,250 | | |
| | SAN BENITO, COUNTY OF | C000113844 | 93 | 558 | 5,100 | | |
| | SAN DIEGO COUNTY | 88A06 | 93 | 558 | 235,627 | | |
| | SAN JOAQUIN COUNTY | EW-2018-28 | 93 | 558 | -7,650 | | |
| | SAN JOAQUIN COUNTY | C000113848 | 93 | 558 | 80,835 | | |
| | SAN LUIS OBISPO, COUNTY OF | C000113708 | 93 | 558 | 7,395 | | |
| | SAN LUIS OBISPO, COUNTY OF | C000113709 | 93 | 558 | 26,295 | | |
| | SAN MATEO COUNTY | EW-2016-43 | 93 | 558 | 7,408 | | |
| | SAN MATEO COUNTY | C000113785 | 93 | 558 | 43,378 | | |
| | SANTA BARBARA, COUNTY OF | 22B56 | 93 | 558 | -46 | | |
| | SANTA CRUZ, COUNTY OF | 84A09 | 93 | 558 | 8,296 | | |
| | SANTA CRUZ, COUNTY OF | C000113782 | 93 | 558 | 144,940 | | |
| | SANTA CRUZ, COUNTY OF | C000113783 | 93 | 558 | 12,750 | | |
| | SHASTA, COUNTY OF | CW-2017-29 | 93 | 558 | 3,616 | | |
| | SHASTA, COUNTY OF | GENT-2017-29 | 93 | 558 | 358 | | |
| | SIERRA, COUNTY OF | C000113845 | 93 | 558 | 12,750 | | |
| | SISKIYOU, COUNTY OF | 38A55 | 93 | 558 | -8,529 | | |
| | SISKIYOU, COUNTY OF | C000113830 | 93 | 558 | 8,160 | | |
| | SISKIYOU, COUNTY OF | C000113831 | 93 | 558 | 11,858 | | |
| | SISKIYOU, COUNTY OF | C000113846 | 93 | 558 | 59,322 | | |
| | SISKIYOU, COUNTY OF | C000113847 | 93 | 558 | 10,710 | | |
| | STANISLAUS, COUNTY OF | C000113775 | 93 | 558 | 74,970 | | |
| | STANISLAUS, COUNTY OF | C000113791 | 93 | 558 | 108,904 | | |
| | SUTTER COUNTY | 17-158 | 93 | 558 | -518 | | |
| | SUTTER COUNTY | 38A53 | 93 | 558 | -3,555 | | |
| | SUTTER COUNTY | C000113852 | 93 | 558 | 52,275 | | |
| | TEHAMA, COUNTY OF | C000113716 | 93 | 558 | 16,098 | | |
| | TEHAMA, COUNTY OF | C000113717 | 93 | 558 | 2,550 | | |
| | TEHAMA, COUNTY OF | C000113718 | 93 | 558 | 13,005 | | |
| | TEHAMA, COUNTY OF | C000113719 | 93 | 558 | 7,395 | | |
| | TRINITY, COUNTY OF | EW201737 | 93 | 558 | -5,738 | | |
| | TRINITY, COUNTY OF | 18-112 | 93 | 558 | 27,093 | | |
| | TULARE, COUNTY OF | 71B83 | 93 | 558 | 2,125 | | |
| | TULARE, COUNTY OF | C000113786 | 93 | 558 | 14,025 | | |
| | TULARE, COUNTY OF | C000113787 | 93 | 558 | 55,463 | | |
| | TUOLUMNE, COUNTY OF | 80A15 | 93 | 558 | 1,067 | | |
| | TUOLUMNE, COUNTY OF | C000113825 | 93 | 558 | 28,943 | | |
| | YOLO COUNTY | C000113853 | 93 | 558 | 94,988 | | |
| | YUBA COUNTY | 79A16 | 93 | 558 | 3,555 | | |
| | YUBA COUNTY | C000113768 | 93 | 558 | 66,480 | | |
| | IMPERIAL COUNTY | 83B94 | 93 | 558 | 15,300 | | |
| | | | | | | 3,049,178 | |
| | | Passthrough/Partial Passthrough | | | | | |
| | | TEHAMA, COUNTY OF | C000113858 | 93 | 569 | 9,563 | |
| | | | | | | 9,563 | |
| | | Passthrough/Partial Passthrough | | | | | |
| | | CALIFORNIA CHILD DEVELOPMENT DIVISION | 74A38 | 93 | 575 | -18,536 | |
| | | CALIFORNIA DEPARTMENT OF EDUCATION | 18855 | 93 | 575 | -15,588 | |
| | | CALIFORNIA DEPARTMENT OF EDUCATION | 18893 | 93 | 575 | -16,973 | |
| | | CALIFORNIA DEPARTMENT OF EDUCATION | A18-0149-001 | 93 | 575 | 86,595 | |
| | | CALIFORNIA DEPARTMENT OF EDUCATION | CCTR-7164-CYC1 | 93 | 575 | 63 | |
| | | CALIFORNIA DEPARTMENT OF EDUCATION | 18859 | 93 | 575 | -1,907 | |
| | | CALIFORNIA DEPARTMENT OF EDUCATION | 18894 | 93 | 575 | 28,877 | |
| | | CALIFORNIA DEPARTMENT OF EDUCATION | 18897 | 93 | 575 | 55,468 | |
| | | | | | | 118,000 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|--|--|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA CHILD DEVELOPMENT DIVISION | 009828 | 93 | 596 | | 193,786 |
| | CALIFORNIA CHILD DEVELOPMENT DIVISION | 009829 | 93 | 596 | | 229,976 |
| | CALIFORNIA DEPARTMENT OF EDUCATION | 18861 | 93 | 596 | | -1,367 |
| | CALIFORNIA DEPARTMENT OF EDUCATION | 18863 | 93 | 596 | | -10,714 |
| | CALIFORNIA DEPARTMENT OF EDUCATION | A18-0148-001 | 93 | 596 | | 253,890 |
| | CALIFORNIA DEPARTMENT OF EDUCATION | 18856 | 93 | 596 | | -11,686 |
| | CALIFORNIA DEPARTMENT OF EDUCATION | 18895 | 93 | 596 | | 59,369 |
| | CALIFORNIA DEPARTMENT OF EDUCATION | 18899 | 93 | 596 | | 68,691 |
| | CALIFORNIA DEPARTMENT OF EDUCATION | CCTR-8161-CYC1 | 93 | 596 | | 206,888 |
| | CALIFORNIA DEPARTMENT OF EDUCATION | CSP-8361-CYC1 | 93 | 596 | | 126,225 |
| | | | | | | 1,115,059 |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES Total | | | | | | 4,291,799 |
| 477 Cluster Total | | | | | | 4,291,799 |
| WIOA Cluster | | | | | | |
| DEPARTMENT OF LABOR | Passthrough/Partial Passthrough | | | | | |
| | CITY OF LOS ANGELES | 20700 | 17 | 258 | | 620 |
| | | | | | | 620 |
| | Passthrough/Partial Passthrough | | | | | |
| | CITY OF LOS ANGELES | 20720 | 17 | 259 | | -17,843 |
| | CITY OF LOS ANGELES | T6244 | 17 | 259 | | -12,504 |
| | CITY OF LOS ANGELES | 20784 | 17 | 259 | | -181,144 |
| | YOUTH POLICY INSTITUTE INC. | 20184321 | 17 | 259 | | 6,983 |
| | | | | | | -204,508 |
| DEPARTMENT OF LABOR Total | | | | | | -203,888 |
| WIOA Cluster Total | | | | | | -203,888 |
| Federal Transit Cluster | | | | | | |
| DEPARTMENT OF TRANSPORTATION | Passthrough/Partial Passthrough | | | | | |
| | DAVIS, CITY OF | CA-2016-101-00 | 20 | 507 | | 1,163,241 |
| | DAVIS, CITY OF | A170232 | 20 | 507 | | 1,056,690 |
| | DAVIS, CITY OF | CA-2017-126-00 | 20 | 507 | | 2,796 |
| | | | | | | 2,222,727 |
| DEPARTMENT OF TRANSPORTATION Total | | | | | | 2,222,727 |
| Federal Transit Cluster Total | | | | | | 2,222,727 |
| Highway Safety Cluster | | | | | | |
| DEPARTMENT OF TRANSPORTATION | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA OFFICE OF TRAFFIC SAFETY | PT18150 | 20 | 600 | | 335,900 |
| | CALIFORNIA OFFICE OF TRAFFIC SAFETY | PT18151 | 20 | 600 | | 246,619 |
| | CALIFORNIA OFFICE OF TRAFFIC SAFETY | PS18035 | 20 | 600 | | 180,645 |
| | CALIFORNIA OFFICE OF TRAFFIC SAFETY | SUB 20182594(NONE) | 20 | 600 | | 320,306 |
| | | | | | | 1,083,470 |
| | Passthrough/Partial Passthrough | | | | | |
| | CALTRANS CALIFORNIA DEPARTMENT OF TRANSPORTATION | 84753 | 20 | 610 | | 4,946 |
| | | | | | | 4,946 |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA OFFICE OF TRAFFIC SAFETY | DI18030-CYC1 | 20 | 616 | | 68,877 |
| | CALIFORNIA OFFICE OF TRAFFIC SAFETY | TR18011 | 20 | 616 | | 33,987 |
| | CALIFORNIA OFFICE OF TRAFFIC SAFETY | 84575 | 20 | 616 | | -647 |
| | | | | | | 102,217 |
| DEPARTMENT OF TRANSPORTATION Total | | | | | | 1,190,633 |
| Highway Safety Cluster Total | | | | | | 1,190,633 |
| TRIO Cluster | | | | | | |
| DEPARTMENT OF EDUCATION | Direct | | | | | |
| | DEPARTMENT OF EDUCATION | VARIOUS | 84 | 042 | | 1,998,248 |
| | | | | | | 1,998,248 |
| | Direct | | | | | |
| | DEPARTMENT OF EDUCATION | VARIOUS | 84 | 044 | | 3,321,080 |
| | | | | | | 3,321,080 |
| | Direct | | | | | |
| | DEPARTMENT OF EDUCATION | VARIOUS | 84 | 047 | | 6,447,444 |
| | Passthrough/Partial Passthrough | | | | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|--|--|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF EDUCATION | STATE CENTER COMMUNITY COLLEGE DISTRICT | 81B91 | 84 | 047 | 219 | |
| | STATE CENTER COMMUNITY COLLEGE DISTRICT | 33C98 | 84 | 047 | 2,764 | |
| | | | | | 6,450,427 | |
| | Direct | | | | | |
| | DEPARTMENT OF EDUCATION | VARIOUS | 84 | 217 | 1,226,409 | |
| DEPARTMENT OF EDUCATION Total | | | | | 1,226,409 | |
| TRIO Cluster Total | | | | | 12,996,164 | |
| Aging Cluster | | | | | 12,996,164 | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | Passthrough/Partial Passthrough | | | | | |
| | COUNTY OF SONOMA | 73B04 | 93 | 044 | 368 | |
| | COUNTY OF SONOMA | C000113780 | 93 | 044 | 36,125 | |
| | | | | | 36,493 | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES Total | | | | | 36,493 | |
| Aging Cluster Total | | | | | 36,493 | |
| OTHER PROGRAMS | | | | | | |
| DEPARTMENT OF AGRICULTURE | Direct | | | | | |
| | DEPARTMENT OF AGRICULTURE | VARIOUS | 10 | 001 | 23,365 | |
| | | | | | 23,365 | |
| | Direct | | | | | |
| | DEPARTMENT OF AGRICULTURE | VARIOUS | 10 | 025 | 1,573,408 | |
| | DEPARTMENT OF AGRICULTURE | VARIOUS | 10 | 025 | 45,327 | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 17-0760-001-SF | 10 | 025 | 10,619 | |
| | | | | | 1,629,354 | |
| | Direct | | | | | |
| | DEPARTMENT OF AGRICULTURE | VARIOUS | 10 | 167 | 549 | |
| | | | | | 549 | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALAVERAS UNIFIED SCHOOL DISTRICT | 21B60 | 10 | 170 | 8,464 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 37A80 | 10 | 170 | -68 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | SCB15029 | 10 | 170 | -618 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | SCB16031 | 10 | 170 | 205,502 | 66,834 |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 72B04 | 10 | 170 | 54,509 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 17-0727001-SF | 10 | 170 | 122,684 | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 27C36 | 10 | 170 | 33,439 | |
| | | | | | 423,911 | 66,834 |
| | Direct | | | | | |
| | DEPARTMENT OF AGRICULTURE | VARIOUS | 10 | 210 | 34,567 | |
| | | | | | 34,567 | |
| | Passthrough/Partial Passthrough | | | | | |
| | MONTANA STATE UNIVERSITY | 26C93 | 10 | 215 | 2,882 | |
| | UTAH STATE UNIVERSITY | 200592-439 | 10 | 215 | 12,284 | |
| | UTAH STATE UNIVERSITY | 200592393 | 10 | 215 | 70,644 | |
| | UTAH STATE UNIVERSITY | 30B25 | 10 | 215 | 14 | |
| | UTAH STATE UNIVERSITY | 75B38 | 10 | 215 | 25,105 | |
| | UTAH STATE UNIVERSITY | 82B21 | 10 | 215 | 23,628 | |
| | DAVID CEASER DBA GREEN SKIES VERTICAL FARM | 22B90 | 10 | 215 | 30 | |
| | | | | | 134,586 | |
| | Direct | | | | | |
| | DEPARTMENT OF AGRICULTURE | VARIOUS | 10 | 217 | 514 | |
| | | | | | 514 | |
| | Direct | | | | | |
| | DEPARTMENT OF AGRICULTURE | VARIOUS | 10 | 223 | 79,768 | |
| | | | | | 79,768 | |
| | Direct | | | | | |
| | DEPARTMENT OF AGRICULTURE | VARIOUS | 10 | 250 | 14,788 | |
| | | | | | 14,788 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|---------------------------------------|--|---|----------------------|-----------|----------------------|---------------------------------|--------|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF AGRICULTURE | Direct | DEPARTMENT OF AGRICULTURE | 10 | 304 | 384,768 | | |
| | | | | | 384,768 | | |
| | Direct | DEPARTMENT OF AGRICULTURE | 10 | 309 | 87,496 | | |
| | | | | | 87,496 | | |
| | Direct | DEPARTMENT OF AGRICULTURE | 10 | 310 | 187,929 | | |
| | | | | | 187,929 | | |
| | Direct | DEPARTMENT OF AGRICULTURE | 10 | 328 | 112,791 | 7,580 | |
| | Passthrough/Partial Passthrough | AUBURN UNIVERSITY | 18-PS-205191-UCDAVIS | 10 | 328 | 14,036 | |
| | | | | | 126,827 | 7,580 | |
| | Direct | DEPARTMENT OF AGRICULTURE | VARIOUS | 10 | 329 | 234,351 | 12,790 |
| | | | | | 234,351 | 12,790 | |
| | Direct | DEPARTMENT OF AGRICULTURE | VARIOUS | 10 | 460 | 1,257 | |
| | | | | | 1,257 | | |
| | Direct | DEPARTMENT OF AGRICULTURE | VARIOUS | 10 | 521 | 5,105 | |
| | | | | | 5,105 | | |
| | Passthrough/Partial Passthrough | CALIFORNIA DEPARTMENT OF EDUCATION | 003376 | 10 | 558 | 71,595 | |
| | | CALIFORNIA DEPARTMENT OF EDUCATION | 301466-1A-CYC36 | 10 | 558 | 13,713 | |
| | | CALIFORNIA DEPARTMENT OF EDUCATION | 80077 | 10 | 558 | 21,089 | |
| | | CALIFORNIA DEPARTMENT OF EDUCATION | 301466-1A-CYC37 | 10 | 558 | 25,700 | |
| | | | | | | 132,097 | |
| | Passthrough/Partial Passthrough | ADMINISTRATIVE COMMITTEE FOR PISTACHIOS | 29A61 | 10 | 604 | 7,280 | |
| | | | | | | 7,280 | |
| | Direct | DEPARTMENT OF AGRICULTURE | VARIOUS | 10 | 612 | 2,985 | |
| | | | | | 2,985 | | |
| Passthrough/Partial Passthrough | WATERSHED RESEARCH AND TRAINING CENTER | 71A82 | 10 | 664 | 67,123 | | |
| | | | | | 67,123 | | |
| Direct | DEPARTMENT OF AGRICULTURE | VARIOUS | 10 | 674 | 16,549 | | |
| | | | | | 16,549 | | |
| Passthrough/Partial Passthrough | CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION | 23820 | 10 | 675 | 95,291 | | |
| | CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION | 27C42 | 10 | 675 | 127,921 | | |
| | CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION | 8GA17403 | 10 | 675 | 38,989 | | |
| | | | | | 262,201 | | |
| Direct | DEPARTMENT OF AGRICULTURE | VARIOUS | 10 | 680 | 146,991 | | |
| Passthrough/Partial Passthrough | CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION | 31B98 | 10 | 680 | 47,994 | | |
| | | | | | 194,985 | | |
| Passthrough/Partial Passthrough | NATIONAL FOREST FOUNDATION | 88953 | 10 | 682 | -775 | | |
| | NATIONAL FOREST FOUNDATION | ZJ-504 | 10 | 682 | 29,955 | | |
| | | | | | 29,180 | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients | |
|--|--|---|--------------------------------|-----------|----------------------|---------------------------------|--|
| | | | Prefix | Extension | Federal Expenditures | | |
| DEPARTMENT OF AGRICULTURE | Direct | DEPARTMENT OF AGRICULTURE | 10 | 902 | 73,461 | | |
| | | | | | 73,461 | | |
| | Direct | DEPARTMENT OF AGRICULTURE | 10 | 932 | 68,682 | 64,244 | |
| | Passthrough/Partial Passthrough | GOLD RIDGE RESOURCE CONSERVATION DISTRICT | 29B38 | 932 | -92 | 64,244 | |
| | | | | | 68,590 | | |
| | Direct | DEPARTMENT OF AGRICULTURE | 10 | 961 | 11,995 | | |
| | | | | | 11,995 | | |
| | Direct | DEPARTMENT OF AGRICULTURE | 10 | 962 | 218,036 | | |
| | | | | | 218,036 | | |
| | Direct | DEPARTMENT OF AGRICULTURE | 10 | UNKOWN | 255,696 | | |
| | Passthrough/Partial Passthrough | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 18-0625-001-SF | UNKOWN | 605 | | |
| | | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 17-10666 | UNKOWN | 142,087 | | |
| | | COUNTERPART INTERNATIONAL, INC | A18-1584 | UNKOWN | 112,740 | | |
| | | ORGANIC FARMING RESEARCH FOUNDATION | 17-0275-026-SC | UNKOWN | 40,999 | | |
| | | CALIFORNIA STATE UNIVERSITY | 010193 | UNKOWN | 10,000 | | |
| | | COMMUNITY ALLIANCE WITH FAMILY FARMERS FOUNDATION | 2016-70020-25799 | UNKOWN | 8,500 | | |
| | | PALO VERDE RESOURCE CONSERVATION DISTRICT | 29C14 | UNKOWN | 116,348 | | |
| | | SONOMA RESOURCE CONSERVATION DISTRICT | 87B20 | UNKOWN | 8,642 | | |
| | | | | | 695,618 | | |
| DEPARTMENT OF AGRICULTURE Total | | | | | 5,149,236 | 151,448 | |
| DEPARTMENT OF COMMERCE | Direct | DEPARTMENT OF COMMERCE | 11 | 008 | 95,700 | | |
| | | | | | 95,700 | | |
| | Passthrough/Partial Passthrough | NATIONAL MARINE SANCTUARY FOUNDATION | 17-05-B-124 | 011 | 105 | | |
| | | NATIONAL MARINE SANCTUARY FOUNDATION | 18-08-B-186 | 011 | 10,392 | | |
| | | | | | 10,497 | | |
| | Direct | DEPARTMENT OF COMMERCE | 11 | 020 | 193,357 | | |
| | | | | | 193,357 | | |
| | Passthrough/Partial Passthrough | INDIANA UNIVERSITY | SUB IN-4336228-UCSD (ED17HDQ31 | 11 | 312 | 91,984 | |
| | | | | | 91,984 | | |
| | Direct | DEPARTMENT OF COMMERCE | 11 | 417 | 89,321 | | |
| | | | | | 89,321 | | |
| | Passthrough/Partial Passthrough | NORTH PACIFIC RESEARCH BOARD | 84B37 | UNKOWN | 4,829 | | |
| | | | | | 4,829 | | |
| DEPARTMENT OF COMMERCE Total | | | | | 485,688 | | |
| DEPARTMENT OF DEFENSE | Direct | DEPARTMENT OF ARMY | 12 | 431 | 23,142 | | |
| | | | | | 23,142 | | |
| | Direct | DEPARTMENT OF ARMY | 12 | 630 | 46,818 | | |
| | | | | | 46,818 | | |
| | Direct | DEPARTMENT OF NAVY | 12 | 300 | 241,885 | | |
| | | | | | 241,885 | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|--|---|----------------|-------------------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF DEFENSE | Passthrough/Partial Passthrough VYSNOVA PARTNERS, INC. | SC-3032 SEA-05102017-UCSF | 12 | 340 | 8,194 | |
| | | | | | 8,194 | |
| | Passthrough/Partial Passthrough AMERICAN BURN ASSOCIATION MASSACHUSETTS EYE AND EAR INFIRMARY | W81XWH-18-2-0030 38037 | 12 | 420 | 213,907 | |
| | | | | | 156 | |
| | | | | | 214,063 | |
| | Direct DEPARTMENT OF ARMY | VARIOUS | 12 | 431 | 16,646 | |
| | | | | | 16,646 | |
| | Passthrough/Partial Passthrough INSTITUTE OF INTERNATIONAL EDUCATION | 0054-UCLA-10-SSR-280-PO5 | 12 | 550 | 19,945 | |
| | | | | | 19,945 | |
| | Passthrough/Partial Passthrough SAN DIEGO UNIFIED SCHOOL DISTRICT | SUB HE1254-17-1-0003(SV19-0306 | 12 | 556 | 43,403 | |
| | | | | | 43,403 | |
| | Passthrough/Partial Passthrough ARIZONA STATE UNIVERSITY/TEMPE GEORGE WASHINGTON UNIVERSITY KITWARE, INC. | ASUB00000094 009381 57576 | 12 | 800 | 40,602 | |
| | | | | | 3,000 | |
| | | | | | 20,281 | |
| | | | | | 63,883 | |
| Direct SEPARATE AGENCIES | VARIOUS | 12 | 900 | 83,602 | | |
| | | | | 83,602 | | |
| Passthrough/Partial Passthrough STANFORD UNIVERSITY | 61395568124634 | 12 | 910 | 138,448 | | |
| | | | | 138,448 | | |
| Direct DEPARTMENT OF NAVY DEPARTMENT OF AIR FORCE | VARIOUS VARIOUS | 12 | UNKOWN | 9,235,739 | 485,062 | |
| | | | | 66,908 | | |
| Passthrough/Partial Passthrough LOCKHEED MARTIN CORPORATION | 4102790434 | 12 | UNKOWN | 20,853 | | |
| | | | | 9,323,500 | 485,062 | |
| DEPARTMENT OF DEFENSE Total | | | | 10,223,529 | 485,062 | |
| DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT | Passthrough/Partial Passthrough CITY AND COUNTY OF SAN FRANCISCO | A124764 | 14 | 267 | 157,525 | |
| | | | | 157,525 | | |
| DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT Total | | | | 157,525 | | |
| DEPARTMENT OF INTERIOR | Direct DEPARTMENT OF INTERIOR | VARIOUS | 15 | 512 | 3,196,429 | |
| | | | | 3,196,429 | | |
| Direct DEPARTMENT OF INTERIOR | VARIOUS | 15 | 807 | 105,333 | | |
| | | | | 105,333 | | |
| Passthrough/Partial Passthrough TAHOE RESOURCE CONSERVATION DISTRICT | 31C74 | 15 | 235 | 1,573 | | |
| | | | | 1,573 | | |
| Direct DEPARTMENT OF INTERIOR | VARIOUS | 15 | 631 | 955 | | |
| | | | | 955 | | |
| Direct DEPARTMENT OF INTERIOR | VARIOUS | 15 | 650 | 31,906 | | |
| | | | | 31,906 | | |
| Direct DEPARTMENT OF INTERIOR | VARIOUS | 15 | 656 | -1 | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---------------------------------------|--|---|----------------|-----------|------------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF INTERIOR | | | | | -1 | |
| | Direct DEPARTMENT OF INTERIOR | VARIOUS | 15 | 669 | -5,531 -5,531 | |
| | Direct DEPARTMENT OF INTERIOR | VARIOUS | 15 | 676 | 21,000 21,000 | |
| | Direct DEPARTMENT OF INTERIOR | VARIOUS | 15 | 805 | 66,835 66,835 | 66,835 66,835 |
| | Direct DEPARTMENT OF INTERIOR | VARIOUS | 15 | 808 | 27,468 27,468 | |
| | Direct DEPARTMENT OF INTERIOR | VARIOUS | 15 | 933 | 188,403 188,403 | |
| | Direct DEPARTMENT OF INTERIOR | VARIOUS | 15 | 945 | 26,948 | |
| | Passthrough/Partial Passthrough COOPERATIVE ECOSYSTEM STUDIES UNITS | P16AC01594 | 15 | 945 | 71,820 | |
| | COOPERATIVE ECOSYSTEM STUDIES UNITS | P16AC01770 | 15 | 945 | 88,035 186,803 | |
| | Direct DEPARTMENT OF INTERIOR | VARIOUS | 15 | UNKOWN | 2,843,881 2,843,881 | |
| DEPARTMENT OF INTERIOR Total | | | | | 6,665,051 | 66,835 |
| DEPARTMENT OF JUSTICE | | | | | | |
| | Direct DEPARTMENT OF JUSTICE | VARIOUS | 16 | 525 | 141,383 141,383 | |
| | Direct DEPARTMENT OF JUSTICE | VARIOUS | 16 | 560 | 34,157 34,157 | |
| | Passthrough/Partial Passthrough CALIFORNIA EMERGENCY MANAGEMENT AGENCY | 008613 | 16 | 575 | 228,201 | 76,103 |
| | CALIFORNIA EMERGENCY MANAGEMENT AGENCY | 000-95000 | 16 | 575 | 67,283 | |
| | CALIFORNIA EMERGENCY MANAGEMENT AGENCY | 18250 | 16 | 575 | 352,938 | |
| | CALIFORNIA EMERGENCY MANAGEMENT AGENCY | XY16011141 | 16 | 575 | 170,152 | |
| | CALIFORNIA EMERGENCY MANAGEMENT AGENCY | RC17 33 1141 | 16 | 575 | 142,007 | |
| | CALIFORNIA EMERGENCY MANAGEMENT AGENCY | 24C76 | 16 | 575 | 241,307 | |
| | CALIFORNIA EMERGENCY MANAGEMENT AGENCY | CS18 11 8556 | 16 | 575 | 85,771 1,287,658 | 76,103 |
| | Passthrough/Partial Passthrough CALIFORNIA SCHOOL-BASED HEALTH ALLIANCE | OVC WCCUSD 17-20 | 16 | 582 | 130 130 | |
| | Direct DEPARTMENT OF JUSTICE | VARIOUS | 16 | 734 | 849 849 | |
| | Passthrough/Partial Passthrough CALIFORNIA EMERGENCY MANAGEMENT AGENCY | 2016-VA-GX-0057 | 16 | UNKOWN | 71,908 71,908 | |
| DEPARTMENT OF JUSTICE Total | | | | | 1,536,085 | 76,103 |
| DEPARTMENT OF LABOR | | | | | | |
| | Passthrough/Partial Passthrough CITY OF LOS ANGELES | 20702 | 17 | 267 | -51,332 | |
| | CITY OF LOS ANGELES | 20703 | 17 | 267 | -76,346 -127,678 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---------------------------------------|--|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF LABOR | Passthrough/Partial Passthrough CITY OF LOS ANGELES ECONOMIC AND WORKFORCE DEVELOPMENT DEPARTMENT | T5897 | 17 | 283 | -166 | -166 |
| | Direct DEPARTMENT OF LABOR | VARIOUS | 17 | 502 | 282,902 | |
| | Passthrough/Partial Passthrough YOUTH POLICY INSTITUTE INC. | 79499 | 17 | 502 | 70,584 | |
| | COMMUNITY PARTNERS | 20183904:1 | 17 | 502 | 21,769 | |
| DEPARTMENT OF LABOR Total | | | | | 375,255 | |
| DEPARTMENT OF STATE | | | | | 247,411 | |
| | Passthrough/Partial Passthrough INTERNATIONAL RESEARCH AND EXCHANGES BOARD, INC. | FY18-YALI-PM-UCD-03 | 19 | 009 | 51,316 | |
| | INTERNATIONAL RESEARCH AND EXCHANGES BOARD, INC. | S-ECAGD-18-CA-0022 | 19 | 009 | 101,288 | |
| | PARTNERS OF THE AMERICAS, INC. | CBG2016R208 | 19 | 009 | 1,058 | |
| | | | | | 153,661 | |
| | Passthrough/Partial Passthrough INSTITUTE OF INTERNATIONAL EDUCATION | 28813 | 19 | 010 | -8,882 | -8,882 |
| | Passthrough/Partial Passthrough UNITED STATES-INDIA EDUCATIONAL FOUNDATION | 88599 | 19 | 014 | -19,950 | -19,950 |
| | Direct DEPARTMENT OF STATE | VARIOUS | 19 | 021 | 67,798 | |
| | | | | | 67,798 | |
| | Direct DEPARTMENT OF STATE | VARIOUS | 19 | 345 | 492,951 | 97,663 |
| | | | | | 492,951 | 97,663 |
| | Passthrough/Partial Passthrough INSTITUTE OF INTERNATIONAL EDUCATION | 81610 | 19 | 401 | 1,915 | |
| | INSTITUTE OF INTERNATIONAL EDUCATION | UCD-10-1-2018 | 19 | 401 | 29,789 | |
| | | | | | 31,704 | |
| | Passthrough/Partial Passthrough GLOBAL TIES U.S. | CPG-FY19-216 | 19 | 402 | 2,901 | |
| | | | | | 2,901 | |
| | Passthrough/Partial Passthrough INSTITUTE OF INTERNATIONAL EDUCATION | HHH1801000_UCD_7.1.18 | 19 | UNKOWN | 257,126 | |
| | INSTITUTE OF INTERNATIONAL EDUCATION | S-ECAGD-17-CA-1057 | 19 | UNKOWN | 4,129 | |
| | INSTITUTE OF INTERNATIONAL EDUCATION | S-ECAGD18-CA-1009 | 19 | UNKOWN | 104,165 | |
| | INTERNATIONAL RESEARCH AND EXCHANGES BOARD, INC. | 20B51 | 19 | UNKOWN | -971 | |
| | | | | | 364,448 | |
| DEPARTMENT OF STATE Total | | | | | 1,084,633 | 97,663 |
| DEPARTMENT OF TRANSPORTATION | | | | | | |
| | Direct FEDERAL AVIATION ADMINISTRATION (FAA) | VARIOUS | 20 | 108 | 139,180 | |
| | | | | | 139,180 | |
| | Direct DEPARTMENT OF TRANSPORT | VARIOUS | 20 | 108 | 37,302 | |
| | | | | | 37,302 | |
| | Direct DEPARTMENT OF TRANSPORT | VARIOUS | 20 | 215 | 84,912 | |
| | | | | | 84,912 | |
| | Direct DEPARTMENT OF TRANSPORT | VARIOUS | 20 | UNKOWN | 22,311 | |
| | Passthrough/Partial Passthrough APPLIED PAVEMENT TECHNOLOGY, INC. | TOPR215001RR02UCD | 20 | UNKOWN | 7,207 | |
| | APPLIED PAVEMENT TECHNOLOGY, INC. | TOPR315001RR03UCD | 20 | UNKOWN | 2,120 | |
| | APPLIED PAVEMENT TECHNOLOGY, INC. | TOPR 5_15-001-RR05-UCD | 20 | UNKOWN | 30,314 | |
| | DAVIS, CITY OF | 88294 | 20 | UNKOWN | -442,397 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|--|--|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF TRANSPORTATION | DAVIS, CITY OF | 88297 | 20 | UNKOWN | -11,377 | |
| | | | | | -391,823 | |
| DEPARTMENT OF TRANSPORTATION Total | | | | | -130,429 | |
| LIBRARY OF CONGRESS | Direct | | | | | |
| | THE LIBRARY OF CONGRESS | VARIOUS | 42 | UNKOWN | 214,940 | |
| | | | | | 214,940 | |
| LIBRARY OF CONGRESS Total | | | | | 214,940 | |
| NATIONAL AERONAUTICS & SPACE ADMINISTRATION | Direct | | | | | |
| | NATIONAL AERONAUTICS & SPACE ADMINISTRATION | VARIOUS | 43 | 001 | 896,325 | |
| | Passthrough/Partial Passthrough | | | | | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | 58399 | 43 | 001 | -2 | |
| | JET PROPULSION LABORATORY | 77565 | 43 | 001 | -2 | |
| | JET PROPULSION LABORATORY | 1584449 | 43 | 001 | 234 | |
| | | | | | 896,556 | |
| | Direct | | | | | |
| | NATIONAL AERONAUTICS & SPACE ADMINISTRATION | VARIOUS | 43 | 008 | 125,733 | |
| | | | | | 125,733 | |
| | Direct | | | | | |
| | NATIONAL AERONAUTICS & SPACE ADMINISTRATION | VARIOUS | 43 | 012 | 361,536 | |
| | | | | | 361,536 | |
| | Passthrough/Partial Passthrough | | | | | |
| | ANGSTROM DESIGNS ENGRG SERVS | 59022 | 43 | UNKOWN | 1 | |
| | CRAMER FISH SCIENCES | 30B68 | 43 | UNKOWN | 140 | |
| | JET PROPULSION LABORATORY | 1557778 | 43 | UNKOWN | 4,933 | |
| | UNIVERSITIES SPACE RESEARCH ASSOCIATION | SOF 05-0171 RICHTER | 43 | UNKOWN | 19,229 | |
| | | | | | 24,303 | |
| NATIONAL AERONAUTICS & SPACE ADMINISTRATION Total | | | | | 1,408,127 | |
| NATIONAL FOUNDATION ON THE ARTS AND THE HUMANITIES | Direct | | | | | |
| | NATIONAL FOUNDATION ARTS & HUMANITIES | VARIOUS | 45 | 024 | 105,352 | |
| | | | | | 105,352 | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA HUMANITIES | 57203 | 45 | 129 | -47 | |
| | | | | | -47 | |
| | Direct | | | | | |
| | NATIONAL FOUNDATION ARTS & HUMANITIES | VARIOUS | 45 | 130 | 1,469 | |
| | | | | | 1,469 | |
| | Direct | | | | | |
| | NATIONAL FOUNDATION ARTS & HUMANITIES | VARIOUS | 45 | 149 | 255,639 | |
| | Passthrough/Partial Passthrough | | | | | |
| | ARHOOIE FOUNDATION, THE | 20160081 | 45 | 149 | 21,816 | |
| | NFAH HUMANITIES, NATIONAL ENDOWMENT FOR THE | 10383SC | 45 | 149 | 103,633 | |
| | | | | | 381,088 | |
| | Direct | | | | | |
| | NATIONAL FOUNDATION ARTS & HUMANITIES | VARIOUS | 45 | 163 | 170,232 | |
| | | | | | 170,232 | |
| | Direct | | | | | |
| | NATIONAL FOUNDATION ARTS & HUMANITIES | VARIOUS | 45 | 164 | 44,181 | |
| | | | | | 44,181 | |
| | Direct | | | | | |
| | NATIONAL FOUNDATION ARTS & HUMANITIES | VARIOUS | 45 | 169 | 16,504 | |
| | | | | | 16,504 | |
| | Direct | | | | | |
| | INSTITUTE OF MUSEUM AND LIBRARY SERVICES | VARIOUS | 45 | 301 | 208,430 | |
| | | | | | 208,430 | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA STATE LIBRARY | 18444 | 45 | 310 | 40,315 | |

UNIVERSITY OF CALIFORNIA
 Schedule of Expenditures of Federal Awards
 For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|--|---|----------------|-----------|------------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| NATIONAL FOUNDATION ON THE ARTS AND THE HUM | CALIFORNIA STATE LIBRARY | 18464 | 45 | 310 | 110,384 150,699 | |
| | Direct | | | | | |
| | INSTITUTE OF MUSEUM AND LIBRARY SERVICES | VARIOUS | 45 | 312 | 34,937 34,937 | |
| | Direct | | | | | |
| | INSTITUTE OF MUSEUM AND LIBRARY SERVICES | VARIOUS | 45 | 313 | 227,144 227,144 | |
| NATIONAL FOUNDATION ON THE ARTS AND THE HUMANITIES Total | | | | | 1,339,989 | |
| SMALL BUSINESS ADMINISTRATION | | | | | | |
| | Direct | | | | | |
| | SMALL BUSINESS ADMINISTRATION (SBA) | VARIOUS | 59 | 037 | 1,363,638 | 839,008 |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA STATE UNIVERSITY FULLERTON/CSU FULLERTON AUXILIARY SERVICES | S-6464-UCI-CYC1 | 59 | 037 | 30,000 | |
| | CALIFORNIA STATE UNIVERSITY FULLERTON/CSU FULLERTON AUXILIARY SERVICES | S-6683-UCI-CYC1 | 59 | 037 | 84,736 1,478,374 | 839,008 |
| | Direct | | | | | |
| | SMALL BUSINESS ADMINISTRATION (SBA) | VARIOUS | 59 | UNKOWN | 166,049 166,049 | 85,656 85,656 |
| SMALL BUSINESS ADMINISTRATION Total | | | | | 1,644,424 | 924,665 |
| DEPARTMENT OF VETERANS AFFAIRS | | | | | | |
| | Direct | | | | | |
| | DEPARTMENT OF VETERANS AFFAIRS | VARIOUS | 64 | UNKOWN | 1,973,380 1,973,380 | |
| DEPARTMENT OF VETERANS AFFAIRS Total | | | | | 1,973,380 | |
| ENVIRONMENTAL PROTECTION AGENCY | | | | | | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA DEPARTMENT OF PESTICIDE REGULATION | 15-C0052 | 66 | 306 | 45,451 45,451 | |
| | Passthrough/Partial Passthrough | | | | | |
| | ASSOCIATION OF BAY AREA GOVERNMENTS | 16477-2019 | 66 | 456 | 39,649 39,649 | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 16-10004 | 66 | 707 | 10 10 | |
| | Direct | | | | | |
| | ENVIRONMENTAL PROTECTION AGENCY | VARIOUS | 66 | 716 | 611,691 | 111,545 |
| | Passthrough/Partial Passthrough | | | | | |
| | EXTENSION FOUNDATION | 75B48 | 66 | 716 | 18,418 | |
| | EXTENSION FOUNDATION | 28C94 | 66 | 716 | 9,072 639,182 | 111,545 |
| | Passthrough/Partial Passthrough | | | | | |
| | NORTH AMERICAN ASSOCIATION FOR ENVIRONMENTAL EDUCATION | 32C46 | 66 | 951 | 1,170 1,170 | |
| | Direct | | | | | |
| | ENVIRONMENTAL PROTECTION AGENCY | VARIOUS | 66 | UNKOWN | 3,748,598 | 2,727,892 |
| | Passthrough/Partial Passthrough | | | | | |
| | TAHOE REGIONAL PLANNING AGENCY (TRPA) | 17C00051 | 66 | UNKOWN | 40,733 3,789,331 | 2,727,892 |
| ENVIRONMENTAL PROTECTION AGENCY Total | | | | | 4,514,792 | 2,839,437 |
| NUCLEAR REGULATORY COMMISSION | | | | | | |
| | Direct | | | | | |
| | NUCLEAR REGULATORY COMMISSION | VARIOUS | 77 | 008 | 271,397 271,397 | |
| NUCLEAR REGULATORY COMMISSION Total | | | | | 271,397 | |
| DEPARTMENT OF ENERGY | | | | | | |
| | Direct | | | | | |
| | DEPARTMENT OF ENERGY | VARIOUS | 81 | 123 | 61 61 | |
| | Direct | | | | | |
| | DEPARTMENT OF ENERGY | VARIOUS | 81 | 049 | 33,410 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|--|---|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF ENERGY | Passthrough/Partial Passthrough COLORADO STATE UNIVERSITY SANDIA NATIONAL LABORATORIES | DESC0017975 | 81 | 049 | 34,473 | |
| | | 79107 | 81 | 049 | 235,438 | |
| | | | | | 303,321 | |
| | Passthrough/Partial Passthrough KRELL INSTITUTE KRELL INSTITUTE | 040010 | 81 | 112 | 25,778 | |
| | | 040009 | 81 | 112 | 1,000 | 26,778 |
| | Direct DEPARTMENT OF ENERGY | VARIOUS | 81 | 121 | 198,754 | |
| | | | | | 198,754 | |
| | Direct DEPARTMENT OF ENERGY | VARIOUS | 81 | 136 | 107,409 | |
| | | | | | 107,409 | |
| | Direct DEPARTMENT OF ENERGY | VARIOUS | 81 | UNKOWN | 3,017,933 | |
| | | | | | | |
| | Passthrough/Partial Passthrough FERMI RESEARCH ALLIANCE, LLC (FRA) (INCL FERMILAB-DOE GOCO) LAWRENCE LIVERMORE NATIONAL SECURITY, LLC LOS ALAMOS NATIONAL SECURITY, LLC OAK RIDGE NATIONAL LABORATORY SANDIA NATIONAL LABORATORIES | UCD2018P016 | 81 | UNKOWN | 16,870 | |
| | | B620069 | 81 | UNKOWN | 95,548 | |
| | | SUB 404673 (NONE) | 81 | UNKOWN | -1,534 | |
| | | 4000168234 | 81 | UNKOWN | 8,209 | |
| 88486 | | 81 | UNKOWN | -11,113 | | |
| | | | | 3,125,912 | | |
| DEPARTMENT OF ENERGY Total | | | | | 3,762,236 | |
| DEPARTMENT OF EDUCATION | Direct DEPARTMENT OF EDUCATION | VARIOUS | 84 | 015 | 2,915,634 | 39,260 |
| | | | | | 2,915,634 | |
| | Passthrough/Partial Passthrough UNIVERSITY OF SOUTHERN CALIFORNIA UNIVERSITY OF SOUTHERN CALIFORNIA | 55655151:5 | 84 | 015 | 5,590 | |
| | | 55655350:5 | 84 | 015 | 20,294 | 39,260 |
| | | | | 2,941,518 | | |
| | Direct DEPARTMENT OF EDUCATION | VARIOUS | 84 | 021 | 17,301 | |
| | | | | | 17,301 | |
| | Direct DEPARTMENT OF EDUCATION | VARIOUS | 84 | 022 | 202,065 | |
| | | | | | 202,065 | |
| | Direct DEPARTMENT OF EDUCATION | VARIOUS | 84 | 031 | 2,719,720 | |
| | | | | | | |
| | Passthrough/Partial Passthrough CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS FOUNDATION SAN JOSE CITY COLLEGE SANTA MONICA COLLEGE | F16-439 | 84 | 031 | 134,310 | |
| | | A16-0099-003 | 84 | 031 | 293,004 | |
| | | A172125SF2 | 84 | 031 | 233,923 | |
| | | | | | 3,380,957 | |
| Passthrough/Partial Passthrough UNIVERSITY OF MINNESOTA | A15-0201-002 | 84 | 116 | 41,242 | | |
| | | | | 41,242 | | |
| Passthrough/Partial Passthrough SAN MATEO COUNTY | 59005 | 84 | 120 | 14,523 | | |
| | | | | 14,523 | | |
| Passthrough/Partial Passthrough CALIFORNIA DEPARTMENT OF REHABILITATION | 29891 | 84 | 126 | 543,173 | | |
| | | | | 543,173 | | |
| Passthrough/Partial Passthrough AMERICAN EDUCATION SOLUTIONS, INC. | AES2017-01 | 84 | 165 | 138,900 | | |
| | | | | 138,900 | | |
| Passthrough/Partial Passthrough OAKLAND UNIFIED SCHOOL DISTRICT | P1509363 | 84 | 184 | 25,734 | | |
| | | | | | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---------------------------------------|---|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF EDUCATION | | | | | 25,734 | |
| | Direct | | | | | |
| | DEPARTMENT OF EDUCATION | VARIOUS | 84 | 200 | 2,669,644 | |
| | | | | | 2,669,644 | |
| | Direct | | | | | |
| | DEPARTMENT OF EDUCATION | VARIOUS | 84 | 229 | 205,413 | |
| | | | | | 205,413 | |
| | Passthrough/Partial Passthrough | | | | | |
| | LOS ANGELES UNIFIED SCHOOL DISTRICT | 77131 | 84 | 287 | -1,980 | |
| | LOS ANGELES UNIFIED SCHOOL DISTRICT | 20842 | 84 | 287 | 3,676 | |
| | LOS ANGELES UNIFIED SCHOOL DISTRICT | 77049 | 84 | 287 | 851,819 | |
| | | | | | 853,515 | |
| | Passthrough/Partial Passthrough | | | | | |
| | WESTED | S12-173:7 | 84 | 293 | 290,934 | |
| | | | | | 290,934 | |
| | Passthrough/Partial Passthrough | | | | | |
| | EDUCATION DEVELOPMENT CENTER, INC. | 11972:2 | 84 | 295 | 49,542 | |
| | PUBLIC BROADCASTING SERVICE | 20154615:3 | 84 | 295 | 372,510 | |
| | | | | | 422,051 | |
| | Direct | | | | | |
| | DEPARTMENT OF EDUCATION | VARIOUS | 84 | 305 | 273,337 | |
| | | | | | 273,337 | |
| | Direct | | | | | |
| | DEPARTMENT OF EDUCATION | VARIOUS | 84 | 334 | 5,278,130 | |
| | Passthrough/Partial Passthrough | | | | | |
| | OFFICE OF POSTSECONDARY EDUCATION | 17-GEAR UP-1801-UCM | 84 | 334 | 21,628 | |
| | | | | | 5,299,758 | |
| | Direct | | | | | |
| | DEPARTMENT OF EDUCATION | VARIOUS | 84 | 335 | 673,588 | |
| | | | | | 673,588 | |
| | Direct | | | | | |
| | DEPARTMENT OF EDUCATION | VARIOUS | 84 | 336 | 1,085,212 | 286,612 |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS FOUNDATION | F18-160 | 84 | 336 | 176,298 | |
| | | | | | 1,261,509 | 286,612 |
| | Direct | | | | | |
| | DEPARTMENT OF EDUCATION | VARIOUS | 84 | 365 | 927,057 | |
| | | | | | 927,057 | |
| | Direct | | | | | |
| | DEPARTMENT OF EDUCATION | VARIOUS | 84 | 367 | 150,848 | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA DEPARTMENT OF EDUCATION | 18380 | 84 | 367 | -40,558 | |
| | CALIFORNIA DEPARTMENT OF EDUCATION | 18623 | 84 | 367 | 1,116,179 | 1,066,770 |
| | CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION | NCLB14-CRLP-UCB | 84 | 367 | 8,934 | |
| | CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION | SUB NCLB14-CRLP-UCSD (CN170224 | 84 | 367 | 7,494 | |
| | CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION | 182DF | 84 | 367 | 4 | |
| | CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION | ESSA18-CHSSP-SO | 84 | 367 | 111,916 | |
| | CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION | ESSA18-CHSSP-UCD | 84 | 367 | 40,500 | |
| | CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION | ESSA18-CMP-UCD | 84 | 367 | 20,626 | |
| | CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION | ESSA18-CMP-UCI-CYC1 | 84 | 367 | 20,636 | |
| | CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION | ESSA18-CRLP-UCI-CYC1 | 84 | 367 | 43,627 | |
| | CALIFORNIA POSTSECONDARY EDUCATION COMMISSION | 23B58 | 84 | 367 | 805,912 | 419,833 |
| | CALIFORNIA POSTSECONDARY EDUCATION COMMISSION | 18215 | 84 | 367 | -660 | |
| | CALIFORNIA STATE UNIVERSITY SACRAMENTO/UNIVERSITY ENTERPRISES, INC. | 528781D | 84 | 367 | 12,016 | |
| | NATIONAL WRITING PROJECT | 008930 | 84 | 367 | 5,500 | |
| | NATIONAL WRITING PROJECT | 92-CA09-SEED2017-CRWPPD | 84 | 367 | 10,390 | |
| | NATIONAL WRITING PROJECT | 92-CA03-SEED2017-ILI | 84 | 367 | 9,386 | |
| | NATIONAL WRITING PROJECT | 92-CA03-SEED2018-C3WPPD | 84 | 367 | 16,917 | |
| | NATIONAL WRITING PROJECT | 009674 | 84 | 367 | 17,616 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|---|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF EDUCATION | | | | | 2,357,282 | 1,486,602 |
| | Direct | | | | | |
| | DEPARTMENT OF EDUCATION | VARIOUS | 84 | 382 | 294,102 | 17,130 |
| | | | | | 294,102 | 17,130 |
| | Direct | | | | | |
| | DEPARTMENT OF EDUCATION | VARIOUS | 84 | 407 | 10 | |
| | | | | | 10 | |
| | Direct | | | | | |
| | DEPARTMENT OF EDUCATION | VARIOUS | 84 | 411 | 411,457 | 208,567 |
| | | | | | 411,457 | 208,567 |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA STATE UNIVERSITY, FRESNO | SC330402-17-01 | 84 | 422 | 42,000 | |
| | | | | | 42,000 | |
| | Direct | | | | | |
| | DEPARTMENT OF EDUCATION | VARIOUS | 84 | UNKOWN | 109,617 | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA CHILD DEVELOPMENT DIVISION | 25727 | 84 | UNKOWN | -3,225 | |
| | CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION | ESSA18-CWP-UCD | 84 | UNKOWN | 39,082 | |
| | SAN DIEGO COUNTY | 20851 | 84 | UNKOWN | 973,598 | |
| | | | | | 1,119,071 | |
| DEPARTMENT OF EDUCATION Total | | | | | 24,406,142 | 2,038,171 |
| SCHOLARSHIP FOUNDATIONS | | | | | | |
| | Direct | | | | | |
| | VIETNAM EDUCATION FOUNDATION | VARIOUS | 85 | 802 | 3,521 | |
| | | | | | 3,521 | |
| SCHOLARSHIP FOUNDATIONS Total | | | | | 3,521 | |
| NATIONAL ARCHIVES & RECORDS ADMINISTRATION | | | | | | |
| | Direct | | | | | |
| | NATIONAL ARCHIVES AND RECORDS ADMINISTRATION | VARIOUS | 89 | 003 | 75,524 | |
| | NATIONAL HISTORICAL PUBLICATIONS AND RECORDS COMMISSION | VARIOUS | 89 | 003 | 61,720 | |
| | | | | | 137,244 | |
| NATIONAL ARCHIVES & RECORDS ADMINISTRATION Total | | | | | 137,244 | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | | | | | | |
| | Direct | | | | | |
| | CDC CENTERS FOR DISEASE CONTROL AND PREVENTION | VARIOUS | 93 | 067 | 8,044,464 | 1,387,899 |
| | Passthrough/Partial Passthrough | | | | | |
| | AURUM INSTITUTE | A128676 | 93 | 067 | 123,034 | |
| | AURUM INSTITUTE | NU2GGH001981-03 | 93 | 067 | 74,819 | |
| | COLUMBIA UNIVERSITY | A126704 | 93 | 067 | -190,068 | 8,660 |
| | TB/HIV CARE ASSOCIATION | A128731 | 93 | 067 | 22,896 | |
| | CENTER FOR INFECTIOUS DISEASE RESEARCH IN ZAMBIA | C0076 | 93 | 067 | -40,279 | |
| | | | | | 8,034,867 | 1,396,559 |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 15-10250 | 93 | 074 | 1,003,906 | |
| | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 18-10040 | 93 | 074 | 941,062 | |
| | COUNTY OF LOS ANGELES | 20614 | 93 | 074 | 102,869 | |
| | | | | | 2,047,837 | |
| | Passthrough/Partial Passthrough | | | | | |
| | SANTA BARBARA, COUNTY OF | C000113800 | 93 | 090 | 27,555 | |
| | | | | | 27,555 | |
| | Direct | | | | | |
| | OHDS ADMINISTRATION FOR CHILDREN AND FAMILIES | VARIOUS | 93 | 092 | 720,579 | 436,547 |
| | | | | | 720,579 | 436,547 |
| | Passthrough/Partial Passthrough | | | | | |
| | NATIONAL COUNCIL FOR BEHAVIORAL HEALTH | 2390.0005 | 93 | 098 | 37,690 | |
| | | | | | 37,690 | |
| | Direct | | | | | |
| | FDA PHS FOOD AND DRUG ADMINISTRATION | VARIOUS | 93 | 103 | 60,441 | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 18-0223 | 93 | 103 | 27,397 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|--|--|----------------|-----------|----------------------|------------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE | 18-0224 | 93 | 103 | 76,898 | |
| | CHILDREN'S HOSPITAL LOS ANGELES | RGF011721-B | 93 | 103 | 20,182 | |
| | INTEGRA LIFESCIENCES CORPORATION | A18-2655 | 93 | 103 | 1,485 | |
| | | | | | 186,402 | |
| | Direct | | | | | |
| | HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION | VARIOUS | 93 | 107 | 1,591,321 | 1,289,999 |
| | | | | | 1,591,321 | 1,289,999 |
| | Direct | | | | | |
| | HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION | VARIOUS | 93 | 110 | 3,188,297 | 95,093 |
| | Passthrough/Partial Passthrough | | | | | |
| | CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD DISORDERS | 82B68 | 93 | 110 | 47,858 | |
| | CHILDREN'S HOSPITAL OF PHILADELPHIA | UA3MC202180901 | 93 | 110 | 8,584 | |
| | UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE) | FY18.609.002 | 93 | 110 | 74,279 | |
| | ASSOCIATION OF UNIVERSITY CENTERS ON DISABILITIES | A19-3052 | 93 | 110 | 7,717 | |
| | | | | | 3,326,734 | 95,093 |
| | Direct | | | | | |
| | HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION | VARIOUS | 93 | 117 | 571,854 | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 18-10566 | 93 | 117 | 108,961 | |
| | | | | | 680,815 | |
| | Direct | | | | | |
| | HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION | VARIOUS | 93 | 127 | 212,484 | 18,695 |
| | | | | | 212,484 | 18,695 |
| | Direct | | | | | |
| | HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION | VARIOUS | 93 | 145 | 6,346,449 | 1,254,225 |
| | Passthrough/Partial Passthrough | | | | | |
| | CITY AND COUNTY OF SAN FRANCISCO | BPHC11000127 | 93 | 145 | 138,962 | |
| | CITY AND COUNTY OF SAN FRANCISCO | A8887 | 93 | 145 | 1,418 | |
| | RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY | 0295 | 93 | 145 | 312,453 | |
| | | | | | 6,799,282 | 1,254,225 |
| | Direct | | | | | |
| | HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION | VARIOUS | 93 | 153 | 1,397,607 | 477,643 |
| | | | | | 1,397,607 | 477,643 |
| | Direct | | | | | |
| | HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION | VARIOUS | 93 | 157 | 663,066 | 64,147 |
| | | | | | 663,066 | 64,147 |
| | Passthrough/Partial Passthrough | | | | | |
| | CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD DISORDERS | CIBDIX2011CDC-UCSF-1 | 93 | 184 | 21,830 | |
| | | | | | 21,830 | |
| | Direct | | | | | |
| | HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION | VARIOUS | 93 | 186 | 1,360,734 | |
| | | | | | 1,360,734 | |
| | Passthrough/Partial Passthrough | | | | | |
| | ESSENTIAL ACCESS HEALTH | 58501 | 93 | 217 | -1,595 | |
| | ESSENTIAL ACCESS HEALTH | 1324-5320-71209-17-18:03 | 93 | 217 | 143,008 | |
| | | | | | 141,412 | |
| | Direct | | | | | |
| | PHS AGENCY FOR HEALTHCARE RESEARCH AND QUALITY | VARIOUS | 93 | 225 | 254,399 | |
| | | | | | 254,399 | |
| | Direct | | | | | |
| | PHS AGENCY FOR HEALTHCARE RESEARCH AND QUALITY | VARIOUS | 93 | 226 | 1,084,748 | 302,138 |
| | Passthrough/Partial Passthrough | | | | | |
| | INTERNATIONAL BUSINESS MACHINES CORPORATION | HCUP-2017-UCD | 93 | 226 | 17,067 | |
| | SEATTLE CHILDREN'S HOSPITAL, RESEARCH AND FOUNDATION | 11678SUB | 93 | 226 | 43,995 | |
| | | | | | 1,145,810 | 302,138 |
| | Direct | | | | | |
| | ADMH PHS (SAMHSA) MENTAL HEALTH - CENTER FOR MENTAL HEALTH SERVICES | VARIOUS | 93 | 243 | 1,614,026 | 256,962 |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|--|--|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | ADMH PHS (SAMHSA) PREVENTION - CENTER FOR SUBSTANCE ABUSE PREVENTION | VARIOUS | 93 | 243 | 7,739,885 | 3,759,107 |
| | ADMH PHS (SAMHSA) TREATMENT - CENTER FOR SUBSTANCE ABUSE TREATMENT | VARIOUS | 93 | 243 | 1,523,844 | 6,504 |
| | HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION | VARIOUS | 93 | 243 | 42,618 | |
| | Passthrough/Partial Passthrough | | | | | |
| | AMERICAN ACADEMY OF ADDICTION PSYCHIATRY INC | PCSSMAT-16-7 | 93 | 243 | 20,305 | |
| | AZUSA PACIFIC UNIVERSITY | S-1H79T1026021-1:3 | 93 | 243 | -677 | |
| | PUBLIC HEALTH INSTITUTE | 01488 | 93 | 243 | 19,324 | |
| | UNIVERSITY OF WISCONSIN-MADISON | 747K143 | 93 | 243 | 2,209 | |
| | UNIVERSITY OF WISCONSIN-MADISON | 851K314 | 93 | 243 | 577 | |
| | SUNRISE COMMUNITY COUNSELING CENTER | 20174448 | 93 | 243 | 31,715 | |
| | ST. JOSEPH CENTER | 20183783 | 93 | 243 | 102,829 | |
| | | | | | 11,096,654 | 4,022,573 |
| | Direct | | | | | |
| | HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION | VARIOUS | 93 | 247 | 723,778 | 297,631 |
| | | | | | 723,778 | 297,631 |
| | Direct | | | | | |
| | HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION | VARIOUS | 93 | 253 | 1,855,912 | |
| | | | | | 1,855,912 | |
| | Direct | | | | | |
| | CDC CENTERS FOR DISEASE CONTROL AND PREVENTION | VARIOUS | 93 | 262 | 2,809,894 | 16,437 |
| | | | | | 2,809,894 | 16,437 |
| | Passthrough/Partial Passthrough | | | | | |
| | UNIVERSITY OF WASHINGTON | 759280 PRIOR 751195 | 93 | 266 | 276,817 | |
| | | | | | 276,817 | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 20C89 | 93 | 283 | 1,268,463 | |
| | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 35B00 | 93 | 283 | 46,218 | |
| | | | | | 1,314,681 | |
| | Passthrough/Partial Passthrough | | | | | |
| VANTAGE HUMAN RESOURCE SERVICES, INC | 23C46 | 93 | 289 | 4,322 | | |
| | | | | 4,322 | | |
| Passthrough/Partial Passthrough | | | | | | |
| CHARLES R. DREW UNIVERSITY OF MEDICINE AND SCIENCE | 20183816 | 93 | 307 | 145,998 | | |
| HELUNA HEALTH | 0350.0102 | 93 | 307 | -890 | | |
| | | | | 145,108 | | |
| Passthrough/Partial Passthrough | | | | | | |
| CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO STATE UNIVERSITY | S16-0016 | 93 | 310 | 170,464 | | |
| JACKSON LABORATORY, THE | 3UM10D023222-08S3 | 93 | 310 | 2,338 | | |
| | | | | 172,801 | | |
| Passthrough/Partial Passthrough | | | | | | |
| HELUNA HEALTH | 201702986 | 93 | 323 | 28,747 | | |
| HELUNA HEALTH | 5NU50CK000410 | 93 | 323 | 341,464 | | |
| HELUNA HEALTH | A132828 | 93 | 323 | 22,451 | | |
| | | | | 392,663 | | |
| Direct | | | | | | |
| CDC CENTERS FOR DISEASE CONTROL AND PREVENTION | VARIOUS | 93 | 339 | 41,612 | | |
| | | | | 41,612 | | |
| Passthrough/Partial Passthrough | | | | | | |
| HARVARD UNIVERSITY | B9852 | 93 | 350 | -5,507 | | |
| | | | | -5,507 | | |
| Passthrough/Partial Passthrough | | | | | | |
| FAMILY HEALTH CENTERS OF SAN DIEGO, INC | SUB NONE(HP29857) | 93 | 359 | 48,256 | | |
| | | | | 48,256 | | |
| Passthrough/Partial Passthrough | | | | | | |
| CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD DISORDERS | 007 | 93 | 365 | 191,788 | | |
| | | | | 191,788 | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|--|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | Passthrough/Partial Passthrough | | | | | |
| | ASSOCIATION OF STATE AND TERRITORIAL HEALTH OFFICIALS | 86-29221 (FE-2922-01-00) | 93 | 391 | 1,292 | 1,292 |
| | Passthrough/Partial Passthrough | | | | | |
| | NATIONAL ASSOCIATION OF CHRONIC DISEASE DIRECTORS | SUB 0602017 | 93 | 424 | 24,558 | 24,558 |
| | Direct | | | | | |
| | FDA PHS FOOD AND DRUG ADMINISTRATION | VARIOUS | 93 | 448 | 422,441 | 422,441 |
| | Direct | | | | | |
| | CDC CENTERS FOR DISEASE CONTROL AND PREVENTION | VARIOUS | 93 | 456 | 527,533 | |
| | Passthrough/Partial Passthrough | | | | | |
| | KENNEDY KRIEGER INSTITUTE | NU50MN000004 | 93 | 456 | 43,035 | 570,568 |
| | Passthrough/Partial Passthrough | | | | | |
| | TEXAS HEALTH AND HUMAN SERVICES COMMISSION | 20602 | 93 | 505 | 87,766 | 96,145 |
| | | | | | 87,766 | 96,145 |
| | Passthrough/Partial Passthrough | | | | | |
| | UNIVERSITY OF ARIZONA | 226256 | 93 | 516 | 51,808 | 50,266 |
| | UNIVERSITY OF ARIZONA | 455319 | 93 | 516 | 42,532 | 28,682 |
| | | | | | 94,340 | 78,947 |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 16-10002 | 93 | 521 | 2,812,342 | 2,812,342 |
| | Direct | | | | | |
| | OHDS ADMINISTRATION FOR CHILDREN AND FAMILIES | VARIOUS | 93 | 551 | -8,381 | -8,381 |
| | | | | | -8,381 | -8,381 |
| | Passthrough/Partial Passthrough | | | | | |
| | MONO, COUNTY OF | C000113722 | 93 | 556 | 17,850 | |
| | LOS ANGELES COUNTY, DEPARTMENT OF CHILDREN AND FAMILY SERVICES | 2015-01-05 | 93 | 556 | 205,643 | |
| | | | | | 223,493 | |
| | Passthrough/Partial Passthrough | | | | | |
| | SACRAMENTO, COUNTY OF | A18-2494 | 93 | 563 | 6,375 | |
| | STANISLAUS, COUNTY OF | C000113903 | 93 | 563 | 5,100 | |
| | | | | | 11,475 | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 17-10015 | 93 | 566 | 52,371 | |
| | | | | | 52,371 | |
| | Direct | | | | | |
| | OHDS ADMINISTRATION FOR CHILDREN AND FAMILIES | VARIOUS | 93 | 600 | 1,458,662 | 9,925 |
| | Passthrough/Partial Passthrough | | | | | |
| | AMERICAN ACADEMY OF PEDIATRICS | 719170 UCLA | 93 | 600 | 810,912 | 185,015 |
| | CALIFORNIA MEDICAL CENTER | 20111273:10 | 93 | 600 | 152,721 | |
| | UNIVERSITY OF MASSACHUSETTS AMHERST | 20160127 | 93 | 600 | 160,827 | |
| | UNIVERSITY OF MASSACHUSETTS AMHERST | 80750 | 93 | 600 | 21,287 | |
| | UNIVERSITY OF MASSACHUSETTS AMHERST | 90HC0011-03-00 | 93 | 600 | 63,819 | |
| | UNIVERSITY OF MASSACHUSETTS AMHERST | 81756 | 93 | 600 | 148,250 | |
| | UNIVERSITY OF MASSACHUSETTS AMHERST | 90HC0011-04-00 | 93 | 600 | 198,527 | |
| | | | | | 3,015,006 | 194,940 |
| | Direct | | | | | |
| | OHDS ADMINISTRATION FOR CHILDREN AND FAMILIES | VARIOUS | 93 | 604 | 327,197 | |
| | | | | | 327,197 | |
| | Direct | | | | | |
| | SEC ADMINISTRATION FOR COMMUNITY LIVING | VARIOUS | 93 | 632 | 1,025,347 | 7,358 |
| | | | | | 1,025,347 | 7,358 |
| | Passthrough/Partial Passthrough | | | | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|---|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | DEL NORTE COUNTY | C000113799 | 93 | 645 | 18,576 | |
| | | | | | 18,576 | |
| | Passthrough/Partial Passthrough LOS ANGELES COUNTY, DEPARTMENT OF CHILDREN AND FAMILY SERVICES | 16-09-01:1 | 93 | 659 | 249,252 | |
| | | | | | 249,252 | |
| | Passthrough/Partial Passthrough LASSEN, COUNTY OF | C000113838 | 93 | 667 | 77,127 | |
| | | | | | 77,127 | |
| | Direct HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION | VARIOUS | 93 | 732 | 448,388 | 237,264 |
| | | | | | 448,388 | 237,264 |
| | Direct CDC CENTERS FOR DISEASE CONTROL AND PREVENTION | VARIOUS | 93 | 735 | 923,353 | |
| | Passthrough/Partial Passthrough CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 17-10613 | 93 | 735 | 984,147 | |
| | | | | | 1,907,501 | |
| | Direct CDC CENTERS FOR DISEASE CONTROL AND PREVENTION | VARIOUS | 93 | 738 | 162,418 | 24,201 |
| | | | | | 162,418 | 24,201 |
| | Passthrough/Partial Passthrough CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 16-10506 | 93 | 758 | 65,763 | |
| | | | | | 65,763 | |
| | Passthrough/Partial Passthrough CITY AND COUNTY OF SAN FRANCISCO | A129735 | 93 | 763 | 37,596 | |
| | | | | | 37,596 | |
| | Passthrough/Partial Passthrough CALIFORNIA DEPARTMENT OF HEALTH CARE SERVICES | 17-94653 | 93 | 788 | 635,358 | 141,771 |
| | CALIFORNIA DEPARTMENT OF HEALTH CARE SERVICES | 17-94672 | 93 | 788 | 166,626 | |
| | CALIFORNIA DEPARTMENT OF HEALTH CARE SERVICES | 17-94259 | 93 | 788 | 102,514 | |
| | UNIVERSITY OF MISSOURI | 0081642/00061663 | 93 | 788 | 727,620 | |
| | | | | | 1,632,118 | 141,771 |
| | Passthrough/Partial Passthrough COUNTY OF LOS ANGELES | H-705762:5 | 93 | 817 | 191,060 | |
| | | | | | 191,060 | |
| | Direct HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION | VARIOUS | 93 | 822 | 207,761 | 56,866 |
| | | | | | 207,761 | 56,866 |
| | Direct CDC CENTERS FOR DISEASE CONTROL AND PREVENTION | VARIOUS | 93 | 833 | 442,161 | 7,401 |
| | | | | | 442,161 | 7,401 |
| | Direct HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION | VARIOUS | 93 | 884 | 2,394,594 | 49,895 |
| | | | | | 2,394,594 | 49,895 |
| | Passthrough/Partial Passthrough AMERICAN FEDERATION-AGING RESEARCH | A124460 | 93 | 886 | -6 | |
| | | | | | -6 | |
| | Passthrough/Partial Passthrough COUNTY OF LOS ANGELES | 20604 | 93 | 889 | 11,143 | |
| | COUNTY OF LOS ANGELES | 20652 | 93 | 889 | 3,418 | |
| | | | | | 14,561 | |
| | Passthrough/Partial Passthrough CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 33C31 | 93 | 898 | 2,657 | |
| | | | | | 2,657 | |
| | Passthrough/Partial Passthrough | | | | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|---|--|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | CITY AND COUNTY OF SAN FRANCISCO | BPHC10000131 | 93 | 914 | -26,769 | |
| | CITY AND COUNTY OF SAN FRANCISCO | CMS 7886 | 93 | 914 | 60,749 | |
| | CITY AND COUNTY OF SAN FRANCISCO | CMS 7890 | 93 | 914 | 320,826 | |
| | CITY AND COUNTY OF SAN FRANCISCO | DPHC17001025 | 93 | 914 | 280,373 | |
| | CITY AND COUNTY OF SAN FRANCISCO | RFP43-2017 | 93 | 914 | 187,758 | |
| | CITY AND COUNTY OF SAN FRANCISCO | A130897 | 93 | 914 | 2,352,982 | |
| | LOS ANGELES COUNTY DEPARTMENT OF HEALTH SERVICES | PH-002389:4 | 93 | 914 | 886,575 | |
| | SAN DIEGO COUNTY | 87593 | 93 | 914 | 10 | |
| | AIDS UNITED | SUB 20182427 (U69HA310670100) | 93 | 914 | 165,309 | |
| | | | | | 4,227,812 | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 18372 | 93 | 917 | 44,497 | |
| | CITY AND COUNTY OF SAN FRANCISCO | HCHPDHIVSVGR | 93 | 917 | 1,058,532 | |
| | | | | | 1,103,029 | |
| | Direct | | | | | |
| | HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION | VARIOUS | 93 | 918 | 757,020 | |
| | | | | | 757,020 | |
| | Direct | | | | | |
| | HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION | VARIOUS | 93 | 924 | 24,634 | |
| | | | | | 24,634 | |
| | Direct | | | | | |
| | HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION | VARIOUS | 93 | 928 | 1,546,360 | 9,738 |
| Passthrough/Partial Passthrough | | | | | | |
| BOSTON UNIVERSITY | 4500002544 | 93 | 928 | 49,032 | | |
| DEMOCRACY COUNCIL OF CALIFORNIA | B6227 | 93 | 928 | -7,152 | | |
| | | | | 1,588,240 | 9,738 | |
| Passthrough/Partial Passthrough | | | | | | |
| INDIAN HEALTH COUNCIL, INC. | 88022 | 93 | 933 | 16,491 | | |
| | | | | 16,491 | | |
| Direct | | | | | | |
| CDC CENTERS FOR DISEASE CONTROL AND PREVENTION | VARIOUS | 93 | 939 | 789,137 | 25,000 | |
| HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION | VARIOUS | 93 | 939 | 660,912 | 106,393 | |
| Passthrough/Partial Passthrough | | | | | | |
| AIDS PROJECT LOS ANGELES | C-118200 | 93 | 939 | 165,256 | | |
| AIDS PROJECT LOS ANGELES | 81348 | 93 | 939 | -3,116 | | |
| | | | | 1,612,189 | 131,393 | |
| Passthrough/Partial Passthrough | | | | | | |
| CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 15-10840 | 93 | 940 | 943,653 | | |
| CITY AND COUNTY OF SAN FRANCISCO | BPHC12000084 | 93 | 940 | 527,288 | | |
| CITY AND COUNTY OF SAN FRANCISCO | CID#1000009855 | 93 | 940 | 197,805 | | |
| HELUNA HEALTH | 1000008917 | 93 | 940 | 27,478 | | |
| | | | | 1,696,224 | | |
| Direct | | | | | | |
| CDC CENTERS FOR DISEASE CONTROL AND PREVENTION | VARIOUS | 93 | 947 | 1,364,370 | | |
| | | | | 1,364,370 | | |
| Passthrough/Partial Passthrough | | | | | | |
| CALIFORNIA DEPARTMENT OF HEALTH CARE SERVICES | 18325 | 93 | 959 | 130,149 | | |
| | | | | 130,149 | | |
| Direct | | | | | | |
| HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION | VARIOUS | 93 | 969 | 806,870 | 129,369 | |
| | | | | 806,870 | 129,369 | |
| Passthrough/Partial Passthrough | | | | | | |
| NATIONAL FAMILY PLANNING & REPRODUCTIVE HEALTH ASSOCIATION INC. | B4417 | 93 | 974 | -1,027 | | |
| | | | | -1,027 | | |
| Direct | | | | | | |
| CDC CENTERS FOR DISEASE CONTROL AND PREVENTION | VARIOUS | 93 | 977 | 1,289,300 | 317,286 | |
| Passthrough/Partial Passthrough | | | | | | |
| CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | D4584 | 93 | 977 | 896 | | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | Passed through to Subrecipients |
|--|--|---|----------------|-----------|----------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES | | | | | 1,290,196 | 317,286 |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 1410332 | 93 | 991 | 151,757 | |
| | | | | | 151,757 | |
| | Direct | | | | | |
| | CDC CENTERS FOR DISEASE CONTROL AND PREVENTION | VARIOUS | 93 | UNKOWN | 198,355 | |
| | HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION | VARIOUS | 93 | UNKOWN | 186,890 | |
| | SEC HHS OFFICE OF THE SECRETARY | VARIOUS | 93 | UNKOWN | 4,166 | |
| | Passthrough/Partial Passthrough | | | | | |
| | ASSOCIATION OF MATERNAL AND CHILD HEALTH PROGRAMS | 201602918 | 93 | UNKOWN | 7,269 | |
| | BATTELLE MEMORIAL INSTITUTE | 37A11 | 93 | UNKOWN | 23 | |
| | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH | 16-10190 | 93 | UNKOWN | 4,586,043 | |
| | CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD DISORDERS | CIBDIX2015CDCUCD | 93 | UNKOWN | 42,656 | |
| | CITY AND COUNTY OF SAN FRANCISCO | A7222 | 93 | UNKOWN | -2,188 | |
| | DUKE UNIVERSITY | 35B20 | 93 | UNKOWN | 6,701 | |
| | ORANGE COUNTY | MA-063-16011090 | 93 | UNKOWN | 44,971 | |
| | WASHINGTON UNIVERSITY IN ST. LOUIS | 82840 | 93 | UNKOWN | 1 | |
| | MOST INVESTMENTS, LLC | HHSP2332-014-00035C | 93 | UNKOWN | 59,586 | |
| | MOST INVESTMENTS, LLC | LOA | 93 | UNKOWN | 14,963 | |
| | SOCIETY FOR ADOLESCENT HEALTH AND MEDICINE | A130236 | 93 | UNKOWN | 1,919 | |
| | IMPAQ INTERNATIONAL | 2758 | 93 | UNKOWN | 196,914 | |
| | MATHEMATICA, INC | 50702S05922 | 93 | UNKOWN | 171,403 | |
| | POLYNOVO BIOMATERIALS PTY. LTD. | 201603858 | 93 | UNKOWN | 8,647 | |
| | | | | | 5,528,319 | |
| DEPARTMENT OF HEALTH AND HUMAN SERVICES Total | | | | | 84,526,817 | 11,145,881 |
| CORPORATION FOR NATIONAL AND COMMUNITY SRVC | | | | | | |
| | Passthrough/Partial Passthrough | | | | | |
| | CALIFORNIAVOLUNTEERS | 009301 | 94 | 006 | 240,253 | |
| | CALIFORNIAVOLUNTEERS | 80068 | 94 | 006 | 37,641 | |
| | JUMPSTART FOR YOUNG CHILDREN, INC. | 900200 | 94 | 006 | 92,856 | |
| | SUPERIOR COURT OF CALIFORNIA, COUNTY OF LOS ANGELES | 20171242 | 94 | 006 | 17,488 | |
| | | | | | 388,237 | |
| | Direct | | | | | |
| | CORPORATION FOR NATIONAL AND COMMUNITY SERVICE | VARIOUS | 94 | 013 | 77,568 | |
| | | | | | 77,568 | |
| | Direct | | | | | |
| | CORPORATION FOR NATIONAL AND COMMUNITY SERVICE | VARIOUS | 94 | UNKOWN | 25,334 | |
| | | | | | 25,334 | |
| CORPORATION FOR NATIONAL AND COMMUNITY SRVC Total | | | | | 491,140 | |
| SOCIAL SECURITY ADMINISTRATION | | | | | | |
| | Passthrough/Partial Passthrough | | | | | |
| | DEL NORTE COUNTY | CW-2017-06 | 96 | UNKOWN | -2,125 | |
| | | | | | -2,125 | |
| SOCIAL SECURITY ADMINISTRATION Total | | | | | -2,125 | |
| DEPARTMENT OF HOMELAND SECURITY | | | | | | |
| | Passthrough/Partial Passthrough | | | | | |
| | THE CENTER FOR RURAL DEVELOPMENT | FY15001903 UCDAVIS | 97 | 005 | 139,871 | |
| | THE CENTER FOR RURAL DEVELOPMENT | EMW2016CA00097S01 | 97 | 005 | 7,418 | |
| | | | | | 147,289 | |
| DEPARTMENT OF HOMELAND SECURITY Total | | | | | 147,289 | |
| U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT | | | | | | |
| | Passthrough/Partial Passthrough | | | | | |
| | CORNELL UNIVERSITY | 72026319CA00002 | 98 | 001 | 48,749 | |
| | INTERNATIONAL AIDS VACCINE INITIATIVE INC. | 2395 | 98 | 001 | 165,027 | |
| | KANSAS STATE UNIVERSITY | S15115 | 98 | 001 | 423,481 | 583,027 |
| | KANSAS STATE UNIVERSITY | S18113 | 98 | 001 | 375,401 | |
| | MANAGEMENT SCIENCES FOR HEALTH, INC | B0074 | 98 | 001 | -7,560 | |
| | | | | | 1,005,098 | 583,027 |
| | Passthrough/Partial Passthrough | | | | | |
| | INTERNATIONAL MAIZE AND WHEAT IMPROVEMENT CENTER | 201400223 | 98 | UNKOWN | 178,617 | 64,150 |
| | KNCV TUBERCULOSIS FOUNDATION | 1.00.708.1 | 98 | UNKOWN | 296,898 | |
| | MICHIGAN STATE UNIVERSITY | RC102095 | 98 | UNKOWN | 70,655 | |
| | OREGON STATE UNIVERSITY | EPP-A-00-06-00012 | 98 | UNKOWN | 83,428 | |
| | THE NATIONAL ACADEMIES | 201702123 | 98 | UNKOWN | 1,547 | |
| | UNIVERSITY OF ILLINOIS | 20140623001 | 98 | UNKOWN | 21,416 | |

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2019

| Cluster Programs and Federal Agencies | Federal Direct / Pass-Through and Partial Pass-Through | Agency/PassThrough Identifier or Other Identifier | Federal CFDA # | | FY 2019 | |
|--|--|---|----------------|-----------|------------------------|---------------------------------|
| | | | Prefix | Extension | Federal Expenditures | Passed through to Subrecipients |
| U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT | CARDNO LTD | PO 2019-13 | 98 | UNKOWN | 15,491 | |
| U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT Total | | | | | 668,052 | 64,150 |
| OTHER FEDERAL AGENCIES | | | | | 1,673,150 | 647,177 |
| | Direct | | | | | |
| | PEACE CORPS | VARIOUS | 99 | UNKOWN | 51,560 | |
| | Passthrough/Partial Passthrough | | | | | |
| | AMERICAN EDUCATION SOLUTIONS, INC. | AES2018-06 | 99 | UNKOWN | 69,468 | |
| | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | HST-GO-15436-003-A | 99 | UNKOWN | 21,692 | |
| | BROAD INSTITUTE INC. | 63432 | 99 | UNKOWN | -6,020 | |
| | CALIFORNIA DEPARTMENT OF EDUCATION | 18616 | 99 | UNKOWN | 839,279 | 802,687 |
| | CALIFORNIA DEPARTMENT OF EDUCATION | 18753 | 99 | UNKOWN | -717 | |
| | CALIFORNIA DEPARTMENT OF HEALTH CARE SERVICES | 14-90487 | 99 | UNKOWN | 755,945 | |
| | CALIFORNIA DEPARTMENT OF HEALTH CARE SERVICES | 18-95380 | 99 | UNKOWN | 822,758 | |
| | CALIFORNIA EMPLOYMENT DEVELOPMENT DEPARTMENT | M7105788 | 99 | UNKOWN | 16,332 | |
| | CITY OF LOS ANGELES | 20701 | 99 | UNKOWN | -4,600 | |
| | JET PROPULSION LABORATORY | 1587974 | 99 | UNKOWN | 25,004 | |
| | LEIDOS, INC. | SUB P010219944 (HT0011-18-C-00 | 99 | UNKOWN | 83,499 | |
| | LEIDOS, INC. | 3 | 99 | UNKOWN | 24,564 | |
| | LEIDOS, INC. | 4 | 99 | UNKOWN | 83,359 | |
| | LOS ANGELES UNIFIED SCHOOL DISTRICT | 77104 | 99 | UNKOWN | 2,285 | |
| | NEAR EAST SOUTH ASIA CENTER FOR STRATEGIC STUDIES | 20190301 | 99 | UNKOWN | 249,113 | |
| | NEAR EAST SOUTH ASIA CENTER FOR STRATEGIC STUDIES | 20192787 | 99 | UNKOWN | 225,532 | |
| | SAN DIEGO COUNTY | SUB 554608 (NONE) | 99 | UNKOWN | 72,814 | |
| | SAN DIEGO COUNTY | SUB 554626 (NONE) | 99 | UNKOWN | 272,909 | |
| | WESTAT | 79127 | 99 | UNKOWN | -1,750 | |
| | CALIFORNIA STATE UNIVERSITY FULLERTON/CSU FULLERTON AUXILIARY SERVICES | 009823 | 99 | UNKOWN | 152,705 | |
| | CALIFORNIA STATE UNIVERSITY FULLERTON/CSU FULLERTON AUXILIARY SERVICES | 87249 | 99 | UNKOWN | 74,668 | |
| | AMERICAN INSTITUTES FOR RESEARCH IN THE BEHAVIORAL SCIENCES | 0283200708 | 99 | UNKOWN | 14,565 | |
| | AMERICAN INSTITUTES FOR RESEARCH IN THE BEHAVIORAL SCIENCES | 0470300001 | 99 | UNKOWN | 8,962 | |
| | AMERICAN INSTITUTES FOR RESEARCH IN THE BEHAVIORAL SCIENCES | 57549 | 99 | UNKOWN | -16,655 | |
| | LOS ANGELES COUNTY, DEPARTMENT OF CHILDREN AND FAMILY SERVICES | 78135:3 | 99 | UNKOWN | 2,709,810 | 1,594,643 |
| | YOUTH POLICY INSTITUTE INC. | 79399 | 99 | UNKOWN | 118,275 | |
| | GREEN DOT PUBLIC SCHOOLS | 77829 | 99 | UNKOWN | 39,261 | |
| | LOS ANGELES COUNTY OFFICE OF EDUCATION | C-17860:1 | 99 | UNKOWN | 171,189 | |
| | NEW VISION MIDDLE SCHOOL | 77836 | 99 | UNKOWN | -2,477 | |
| | SOCIAL JUSTICE LEARNING INSTITUTE INC. | 17VSPCA010:1 | 99 | UNKOWN | 17,240 | |
| | AMERICAN PSYCHIATRIC ASSOCIATION | 20191794 | 99 | UNKOWN | 50 | |
| | AMERICAN PSYCHIATRIC ASSOCIATION | 20191795 | 99 | UNKOWN | 2,469 | |
| | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC (ARRA) | 84232 - 01 - 404958 | 99 | UNKOWN | 90,466 | |
| | AMERICAN HEART ASSOCIATION | 19CDA34700007 | 99 | UNKOWN | 5,320 | |
| | SCALE-FREE UNTETHERED NETWORK SYSTEMS TECHNOLOGY | 63924 | 99 | UNKOWN | 257 | |
| OTHER FEDERAL AGENCIES Total | | | | | 6,989,131 | 2,397,330 |
| OTHER PROGRAMS Total | | | | | 6,989,131 | 2,397,330 |
| Grand Total | | | | | 158,920,323 | 20,869,772 |
| | | | | | \$5,867,841,847 | \$510,256,415 |

UNIVERSITY OF CALIFORNIA

Notes to Schedules of Expenditures of Federal Awards Year Ended June 30, 2019

1. General

The accompanying Summary Schedule of Expenditures of Federal Awards and Schedule of Expenditures of Federal Awards (SEFA) (collectively the “Schedules”) present the activity of all federal financial assistance programs of the University of California (the University), a component unit of the State of California, except for the University’s Benioff Children’s Hospital Oakland, which is separately reported.

Consistent with the provisions of Title 2 *U.S. Code of Federal Regulations* Part 200, *Uniform Administrative Requirements for Federal Awards* (Uniform Guidance), the accompanying Schedules of Expenditures of Federal Awards do not include the expenditures of the Lawrence Berkeley National Laboratory – a major Department of Energy (DOE) national laboratory operated and managed by the University under contracts with DOE, as it represents a government-owned, contractor operated facility.

2. Basis of Accounting

The accompanying SEFA is presented on a cash basis as year-end accruals for financial statement purposes are performed in aggregate and not allocated to individual awards. Amounts expended for loan programs are reflected at the value of new loans made or received during the fiscal year plus the beginning balance of loans from previous years for which the federal government imposes continuing compliance requirements.

The information in these schedules is presented in accordance with the requirements of the Uniform Guidance. Negative amounts represent adjustments in the normal course of business to amounts reported in a prior year.

3. CFDA Numbers

Research and Development (R&D) direct awards are presented on the SEFA by federal agency and major subdivision within the federal agency, when applicable. Since Catalog of Federal Domestic Assistance (CFDA) numbers for federal programs are numerous, expenditures have been grouped by federal agency followed by the “RD” designation.

Pass-through and partial pass-through awards have been presented by pass-through entity, CFDA number, sponsor’s award number, when available, or by the University assigned identifier. When the CFDA number is not available, the federal award is presented by agency number and the suffix “RD” for R&D awards, and “UNKNOWN” for non R&D awards. When the federal agency and the CFDA number are not available, “99 RD” is used for R&D awards and “99 UNKNOWN” is used for non R&D awards.

4. Commingled Assistance

The University has included, within the SEFA, amounts received from pass-through entities, which include funds from federal and non-federal sources because the pass through entity is unable to determine the federal portion. Those funds are referred to as partial pass-through funds on the SEFA.

UNIVERSITY OF CALIFORNIA

Notes to Schedules of Expenditures of Federal Awards

Year Ended June 30, 2019

The California Student Aid Commission (CSAC) administers the State Cal Grant A and B Programs, selects the student recipients of these grant awards, and provides funds to participating institutions for disbursement. Federal Temporary Assistance for Needy Families (TANF) funds, CFDA number 93.558, from the United States Department of Health and Human Services may comprise up to approximately 56% of the total funding for these Cal Grant awards.

In fiscal year 2019, the University paid Cal Grant A and B funds in the amount of \$955,170,759; however, CSAC is unable to determine the exact amount of TANF funds, if any, represented in those awards. Therefore, the Schedules of Expenditures of Federal Awards do not include State Grant A and B awards.

5. Outstanding Balances on Loan Programs

Outstanding balances on federal loans programs as of June 30, 2019 are as follows:

| | <u>CFDA</u> | <u>Principal Outstanding</u> |
|--|-------------|------------------------------|
| Federal Perkins Loan Program | 84.038 | \$156,707,601 |
| Health Professions Student Loans, Loans for Disadvantaged Students, Primary Care Loans | 93.342 | \$62,308,213 |
| Nursing Student Loans | 93.364 | \$1,391,282 |
| Nursing Student Faculty Loans | 93.264 | \$769,121 |
| ARRA - Nursing Faculty Loans | 93.408 | \$90,885 |

6. Facilities and Administrative Costs

The University uses its negotiated indirect costs rates instead of the 10% de minimis rate allowed by the Uniform Guidance.



Report of Independent Auditors on Internal Control Over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance with *Government Auditing Standards*

To the Regents of the University of California

We have audited, in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States, the financial statements of the University of California (the "University"), a component unit of the State of California, its aggregate discretely presented component units, the University of California Retirement System, and the University of California Retiree Health Benefit Trust as of and for the year ended June 30, 2019, and the related notes to the financial statements, which collectively comprise the University's basic financial statements as listed in the table of contents, and have issued our report thereon dated October 8, 2019. The financial statements of the University's discretely presented component units were not audited in accordance with *Government Auditing Standards*, and accordingly, this report does not include reporting on internal control over financial reporting or instances of reportable noncompliance associated with the University's discretely presented component units.

Internal Control Over Financial Reporting

In planning and performing our audit of the financial statements, we considered the University's internal control over financial reporting ("internal control") to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the University's internal control. Accordingly, we do not express an opinion on the effectiveness of University's internal control.

A *deficiency in internal control* exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies and therefore, material weaknesses or significant deficiencies may exist that have not been identified. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. We did identify a certain deficiency in internal control, described in the accompanying Schedule of Findings and Questioned Costs as item 2019-001 that we consider to be a significant deficiency.



Compliance and Other Matters

As part of obtaining reasonable assurance about whether the University's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

The University's Response to Finding

The University's response to the finding identified in our audit is described in the accompanying schedule of findings and questioned costs. The University's response was not subjected to the auditing procedures applied in the audit of the financial statements and, accordingly, we express no opinion on it.

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

PricewaterhouseCoopers LLP

San Francisco, California
October 8, 2019



**Report of Independent Auditors on Compliance with Requirements
That Could Have a Direct and Material Effect on Each Major Program and on Internal
Control Over Compliance in Accordance with the Uniform Guidance**

To the Regents of the University of California

Report on Compliance for Each Major Federal Program

We have audited the University of California’s (the “University”), a component unit of the State of California, compliance with the types of compliance requirements described in the *OMB Compliance Supplement* that could have a direct and material effect on each of the University’s major federal programs for the year ended June 30, 2019. The University’s major federal programs are identified in the summary of auditor’s results section of the accompanying schedule of findings and questioned costs.

The University’s basic financial statements include the operations of the University’s Benioff Children’s Hospital & Research Center Oakland, which expended \$14,532,575 in federal awards that is not included in the University’s schedules of expenditures of federal awards during the year ended June 30, 2019. Our audit, described below, did not include the federal expenditures of University’s Benioff Children’s Hospital & Research Center Oakland because a discrete report in *accordance with* Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance)* is issued for this entity.

Management’s Responsibility

Management is responsible for compliance with federal statutes, regulations and the terms and conditions of its federal awards applicable to its federal programs.

Auditors’ Responsibility

Our responsibility is to express an opinion on compliance for each of the University’s major federal programs based on our audit of the types of compliance requirements referred to above. We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America; the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States; and the audit requirements of Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance)*. Those standards and the Uniform Guidance require that we plan and perform the audit to obtain reasonable assurance about whether noncompliance with the types of compliance requirements referred to above that could have a direct and material effect on a major federal program occurred. An audit includes examining, on a test basis, evidence about the University’s compliance with those requirements and performing such other procedures as we considered necessary in the circumstances.

We believe that our audit provides a reasonable basis for our opinion on compliance for each major federal program. However, our audit does not provide a legal determination of the University’s compliance.



Opinion on Each Major Federal Program

In our opinion, the University of California complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on each of its major federal programs for the year ended June 30, 2019.

Other Matters

As indicated in Part I to the accompanying Schedule of Findings and Questioned Costs, we have audited the Student Financial Assistance cluster as a major program. Also, as indicated in the first paragraph of this report, we performed our audit of compliance using the compliance requirements contained in the OMB Compliance Supplement, including those contained in Part V 5.3, Compliance Requirement N, Special Tests and Provisions, Section 10 “Gramm-Leach-Bliley Act-Student Information Security.” This section includes three suggested audit procedures with respect to verification that the institution (1) designated an individual to coordinate the information security program, (2) performed a risk assessment that addresses the three required areas in 16 CFR 314.4(b), and (3) documented a safeguard for each risk identified. Our procedures in relation to these three items were limited to inquiry of and obtaining written representation from management and obtaining and reading management’s documentation related to these three items. Our procedures did not include an analysis of the adequacy or completeness of the risk assessment performed or the safeguards for each risk identified by management.

The results of our auditing procedures disclosed instances of noncompliance, which are required to be reported in accordance with the Uniform Guidance and which are described in the accompanying schedule of findings and questioned costs as items 2019-002, 2019-003, and 2019-004. Our opinion on each major federal program is not modified with respect to these matters.

The University’s response to the noncompliance findings identified in our audit is described in the accompanying management’s views and corrective action plan. The University’s response was not subjected to the auditing procedures applied in the audit of compliance and, accordingly, we express no opinion on the response.

Report on Internal Control Over Compliance

Management of the University is responsible for establishing and maintaining effective internal control over compliance with the types of compliance requirements referred to above. In planning and performing our audit of compliance, we considered the University’s internal control over compliance with the types of requirements that could have a direct and material effect on each major federal program to determine the auditing procedures that are appropriate in the circumstances for the purpose of expressing an opinion on compliance for each major federal program and to test and report on internal control over compliance in accordance with the Uniform Guidance, but not for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, we do not express an opinion on the effectiveness of the University’s internal control over compliance.

A deficiency in internal control over compliance exists when the design or operation of a control over compliance does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, noncompliance with a type of compliance requirement of a federal program on a timely basis. *A material weakness in internal control over compliance* is a deficiency, or combination of deficiencies, in internal control over compliance, such that there is a



reasonable possibility that material noncompliance with a type of compliance requirement of a federal program will not be prevented, or detected and corrected, on a timely basis. A *significant deficiency in internal control over compliance* is a deficiency, or a combination of deficiencies, in internal control over compliance with a type of compliance requirement of a federal program that is less severe than a material weakness in internal control over compliance, yet important enough to merit attention by those charged with governance.

Our consideration of internal control over compliance was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies. We did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

The purpose of this report on internal control over compliance is solely to describe the scope of our testing of internal control over compliance and the results of that testing based on the requirements of the Uniform Guidance. Accordingly, this report is not suitable for any other purpose.

PricewaterhouseCoopers LLP

San Francisco, California
March 2, 2020

University of California
Schedule of Findings and Questioned Costs
Year Ended June 30, 2019

SECTION I – SUMMARY OF AUDITOR’S RESULTS

Financial Statements

Type of auditor’s report issued: Unmodified opinion

Internal control over financial reporting:

- Material weakness(es) identified? No
- Significant deficiency(ies) identified that are not considered to be material weaknesses Yes

Noncompliance material to the financial statements noted? No

Federal Awards

Internal control over major programs:

- Material weakness(es) identified? No
- Significant deficiency(ies) identified that are not considered to be material weaknesses None reported

Type of auditor’s report issued on compliance for major programs Unmodified opinion

Any audit findings that are required to be reported in accordance with 2 CFR 200.516(a)? Yes

Identification of major programs:

| Program Name | CFDA Number |
|--------------------------------------|---------------------------|
| Student Financial Assistance Cluster | 84.Variou s & 93.Variou s |
| SNAP Cluster | 10.551 and 10.561 |

Dollar threshold used to distinguish between type A and type B programs: \$17,603,526

Auditee qualified as a low-risk auditee? Yes

University of California

Schedule of Findings and Questioned Costs

Year Ended June 30, 2019

SECTION II – FINANCIAL REPORTING FINDINGS

2019-001: IT General Controls for Retirement System (Significant Deficiency)

Criteria

As part of our audit, we are required to obtain an understanding of internal controls relevant to the audit, which includes the end to end process around key financial reporting cycles and evidence the implementation of relevant controls and the related IT dependencies. (AU-C section 315)

Condition

In March 2019, a new retirement system was implemented that replaced the legacy system. The University outsources to a third-party vendor the following IT responsibilities over the new retirement system:

- Provisioning/revoking database level access including database administrator privileged access;
- Developing changes, testing changes and migrating changes into production as well as ensuring separation of duties between developers and migrators, and
- Restricting access to the job scheduler used to run the new retirement system jobs.

Management identified that the vendor does not have an AICPA Systems & Organization Controls report over the design and operating effectiveness of internal controls (SOC 1 Type 2 report). The vendor also does not have any formalized/written policies and procedures related to the aforementioned IT controls. The result is the absence of key IT controls in Change Management, Access to Programs & Data, and Computer Operations at the University.

This system is a consolidated system encompassing all components of the University of California, except for Benioff Children's Hospital of Oakland.

Cause

While the University has in place processes over those IT activities within its control, the University relies on the outsourced vendor for the aforementioned execution of key IT general controls, and did not do any monitoring of the controls. They did not realize additional monitoring was required given the nature of the relationship, including inquiring about the availability of a SOC1.

Effect

The absence of key IT controls over the making and migrating changes, granting/revoking database level access, and restricting access to the job scheduler results in no IT controls over on the ongoing validity, completeness, or accuracy of the data processed in the retirement system or in the reports generated from the retirement system.

Recommendation

The University should undertake actions to have the aforementioned missing IT general controls related to the retirement system designed and implemented during the 2020 fiscal year.

Management's Views and Corrective Action Plan

Management's response is reported in "Management's Views and Corrective Action Plan" included at the end of this report.

**University of California
Schedule of Findings and Questioned Costs
Year Ended June 30, 2019**

SECTION III – FEDERAL AWARD FINDINGS AND QUESTIONED COSTS

2019-002: Return of Title IV Funds - Refund to the Department of Education

Program: Student Financial Assistance Cluster

CFDA Title: Federal Pell Program; Federal Direct Loans

CFDA Number: 84.063 - Federal Pell Grants, 84.268 - Federal Direct Loans

Sponsoring Agency: Department of Education

Award Year: 2018 - 2019

Condition:

We selected 100 students across four campuses who received Title IV assistance but then dropped out, withdrew or never began attendance to test the University's conformity with the compliance requirements around the return of Title IV funds. Through our testing, we noted the following:

- We identified 5 students whose return to the Department of Education ("ED") was not completed timely. These selections ranged from 1 to 27 days late.
- We identified 1 student in which the calculation of the refund was inaccurate causing the ED to be underfunded by \$149.
- We identified 1 student whose funds were not returned correctly causing the ED to be underfunded by \$9.

Citation:

34 CFR 668.21; 34 CFR 668.22

Criteria:

When a recipient of title IV grant or loan assistance withdraws from a University before or during a payment period or period of enrollment in which the recipient began attendance, the University must determine the amount of title IV grant or loan assistance that the student earned as of the student's withdrawal date. For students that did not begin attendance in a payment period or period of enrollment, the institution must return the funds no later than 30 days after the date that the institution becomes aware that the student will not or has not begun attendance. For students that began attendance in a payment period or period of enrollment, the institution must return the funds no later than 45 days after the date of the institution's determination that the student withdrew.

Questioned Cost: \$158

Cause:

Financial Aid advisors perform the return of Title IV calculations. As the calculations are done manually, both errors to the refund amounts were clerical errors, resulting from lack of secondary review.

Effect:

The receipt of inaccurately calculated or late Title IV refunds can impact the ED's ability to completely and accurately manage federal student financial assistance funds.

Recommendation:

We recommend management implement policies and procedures that require a secondary review of Title IV refund calculations to ensure they are complete and accurate. In addition, we recommend management provide further training to the financial aid advisors completing the calculations and reemphasize the importance of completing the returns both accurately and timely.

**University of California
Schedule of Findings and Questioned Costs
Year Ended June 30, 2019**

Management's Views and Corrective Action Plan:

Management's response is reported in "Management's Views and Corrective Action Plan" included at the end of this report.

University of California

Schedule of Findings and Questioned Costs

Year Ended June 30, 2019

2019-003 Enrollment Reporting

Program: Student Financial Assistance Cluster

CFDA Title: Federal Pell Program; Federal Direct Loans, Federal Perkins Loans

CFDA Number: 84.063 - Federal Pell Grants, 84.268 - Federal Direct Loans, 84.038 - Federal Perkins Loans

Sponsoring Agency: Department of Education

Award Year: 2018 - 2019

Condition:

In testing the University's conformity with the compliance requirements for enrollment reporting, we sampled 100 students across four campuses. Through our testing, we noted the following:

- 5 of the students were not reported timely to the National Student Loan Data Systems (NSLDS). These selections ranged from 4 to 96 to days late and pertained to one campus.
- For 8 out of the 100 students sampled (including the 5 above), their change in status was not reported to the National Student Loan Data Systems (NSLDS) correctly or at all. The additional 3 selections related to two campuses.

Citation:

34 CFR 690.83(b)(2); 34 CFR 674.19(f); 34 CFR 685.309(b)

Criteria:

An institution shall submit, in accordance with deadline dates established by the Secretary, through publication in the Federal Register, other reports and information the Secretary requires and shall comply with the procedures the Secretary finds necessary to ensure that the reports are correct.

Enrollment reporting process. (1) Upon receipt of an enrollment report from the Secretary, an institution must update all information included in the report and return the report to the Secretary— (i) In the manner and format prescribed by the Secretary; and (ii) Within the timeframe specified by the Secretary.

Questioned Cost: None

Cause:

At the first campus, the Registrar's Office electronically submitted the five incorrect status changes to National Student Clearinghouse (NSC), as the students had multiple degrees and the campus incorrectly reflected that enrollment status. Once updated to the correct enrollment status, they were submitted untimely due to the amount of time lapsed.

While the enrollment and degree information was reported timely to NSC at the second campus, NSLDS did not receive the update for two instances because these students completed multiple majors and minors. This combination prevented these student from having their NSC enrollment status updated through the automated processes.

Typically all graduated students, regardless of their enrollment status, would be updated as graduated once the Registrar sends a Degree Verify file students to NSC. This file lists all graduated students that NSC uses to update the enrollment status from their current state to graduated. However, in this one unreported instance at the third campus the status of this student didn't change to graduated.

Effect:

The effective administration of Title IV loans could be impacted when changes in student status

University of California
Schedule of Findings and Questioned Costs
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are not reported timely and accurately. The accuracy of enrollment information is important as a student's enrollment status determines eligibility for in-school status, deferment, grace periods, and repayments, as well as the Government's payment of interest subsidies.

Recommendation:

We recommend that the campuses review the data included on the NSLDS website periodically to confirm that the information is both accurate. Correct these students to make sure proper status is redflected.

Management's Views and Corrective Action Plan:

Management's response is reported in "Management's Views and Corrective Action Plan" included at the end of this report.

University of California

Schedule of Findings and Questioned Costs

Year Ended June 30, 2019

2019-004 – Disbursements to and on Behalf of Students - Notifications

Program: Student Financial Assistance Cluster
CFDA Title: Federal Direct Loans, TEACH Grant Program
CFDA Number: 84.268- Federal Direct Loans; 84.379 - TEACH Grant Program
Sponsoring Agency: Department of Education
Award Period: 2018 – 2019

Condition:

In testing the University's conformity with the compliance requirements for Federal Loan disbursements, we selected 100 students across four campuses who received Federal Loan disbursements during the year. For each student we tested that the student received the notification of the loan and the borrower's right to cancel all or part of the disbursement for each disbursement made during the year. While reviewing the notifications sent at one of the campuses, it was determined that no notifications were sent for any student for the summer term at that one campus. All students received the notification in a timely manner for other terms.

Citation:

34 CFR 668.165 (a)

Criteria:

The institution must notify the parent or student of the student's or parent's right to cancel all or a portion of that loan, loan disbursement, TEACH Grant, or TEACH Grant disbursement and have the loan proceeds or TEACH Grant proceeds returned to the Secretary. The institution must provide the notice described 1) no earlier than 30 days before, and no later than 30 days after, crediting the student's ledger account at the institution, if the institution obtains affirmative confirmation from the student; or 2) no earlier than 30 days before, and no later than seven days after, crediting the student's ledger account at the institution, if the institution does not obtain affirmative confirmation from the student.

Questioned Cost:

None

Cause:

A system implementation occurred in the current year at the campus in which the notifications were not sent for the summer term. During this system implementation, the financial aid types were not correctly linked to the batches that send out the right to cancel notifications, and consequently, the notices were not sent for summer.

Effect:

Students were not notified of the borrower's right to cancel all or part of the disbursement in the time required.

Recommendation:

We recommend the University implement a secondary review on the setup of batch notifications during a system implementation to ensure they are configured to send out all required information/notifications. Additionally, during the first year of implementation, the University should review to ensure notifications were sent as expected after each batch is released.

Management's Views and Corrective Action Plan:

Management's response is reported in "Management's Response and Corrective Action Plan" included at the end of this report.

University of California

Summary Schedule of Prior Audit Findings and Status

Year Ended June 30, 2019

2018-001 – Reporting Perkins Loan Disbursements to NSLDS

Program: Student Financial Assistance Cluster
CFDA Title: Federal Perkins Loans
CFDA Number: 84.038
Sponsoring Agency: Department of Education
Award Year: 2017 – 2018

During the audit period evaluated the affected campus transitioned to a new loan servicing vendor and did not complete all the conversion steps necessary to accurately report the Federal Perkins Loan data to the U.S. Department of Education's National Student Loan Data System (NSLDS). The issue with the vendor has been corrected and all appropriate data has been reported to NSLDS. The Loan Coordinator in Student Financial Solutions will review the NSLDS error report on a monthly basis to verify updated Perkins data between the loan servicer ECSI and NSLDS and to ensure all data is reported accurately and in a timely manner.

PwC Recommendation:

We should review our procedures to ensure timely and accurate reporting to the NSLDS. PwC also recommended that we review the data included on the NSLDS site to confirm the information is accurate and complete. Additionally, PwC recommended that we perform an integration review between the old and new systems to ensure all student loan information is being appropriately reported to the NSLDS.

Action Taken:

The following corrective actions were completed by the affected campus:

- The vendor issue was fixed by reviewing the NSLDS error report and submitting corrections to the vendor.
- All appropriate data has been provided to NSLDS
- The Loan Coordinator in Student Financial Solutions is reviewing the NSLDS error report on a monthly basis to verify updated Perkins data between the loan servicer ECSI and NSLDS and to ensure all data is reported accurately and in a timely manner

University of California

Summary Schedule of Prior Audit Findings and Status

Year Ended June 30, 2019

2018-002 – The Return of Title IV funds – Refund to the ED

Program: Student Financial Assistance Cluster

CFDA Title: Federal Pell Program; Federal Direct Loans

CFDA Number: 84.268 - Federal Direct Loans; 84.063 – Federal Pell Grants

Sponsoring Agency: Department of Education

Award Year: 2017 – 2018

At the affected campus, the Return of Title IV calculations (R2T4's) were performed by the counselors in the Financial Aid and Scholarships Office. The R2T4 process has now been moved under a single Assistant Director for closer oversight, and all R2T4's are being reviewed by the Assistant Director. Additional R2T4 training will be provided to all counselors by the end of March 2019. Thereafter, R2T4 training will continue on a regular basis. The campus will assign the R2T4 process to a specialty team of counselors and hire a Compliance Office who will take up an active role to ensure (1) federal guidelines are adhered to, (2) thorough training is conducted on a regular basis, and (3) all calculations are reviewed for accuracy. The campus anticipates completing these steps by June 2019. The under-refunded amount is in route to the Department of Education.

PwC Recommendation:

We should implement a policy to have secondary review of Title IV refunds, to ensure correct amounts of Title IV funds are returned to the ED. In addition, we should look to perform further training to the financial aid advisors over the calculations and the effect of not calculating the refunds accurately.

Action Taken:

The following corrective actions were completed by the affected campus:

A full additional R2T4 training was given to all counselors. Regular R2T4 training will continue on a regular basis, annually at minimum. A smaller, intensive specialty team of counselors are assigned R2T4's processing. A Compliance Officer position was approved and the recruitment process is underway. The Compliance Officer will play an active role to ensure federal guidelines are adhered to, thorough training is conducted on a regular basis, and all calculations are reviewed for accuracy.

University of California

Summary Schedule of Prior Audit Findings and Status

Year Ended June 30, 2019

2018-003 – Enrollment Reporting

Program: Student Financial Assistance Cluster

CFDA Title: Federal Perkins Loans; Federal Direct Loans; Federal Pell Grants

CFDA Number: 84.038 - Federal Perkins Loans; 84.268 - Federal Direct Loans; 84.063 – Federal Pell Grants

Sponsoring Agency: Department of Education

Award Year: 2017 – 2018

There were three campuses affected by this finding. Two of the affected campuses the enrollment reporting finding was primarily miscoding related to degree program length, student receiving multiple degrees from separate colleges and manual updating. While the reporting was done timely from these campuses to the National Student Clearinghouse (NSC), the NSC ultimately did not report the status changes to the NSLDS accurately due to coding issues. The non-compliant records from the third affected campus were from the summer 2017 and fall 2017 terms which were during the stabilization period of its new student information system. All the identified records have been corrected.

The appropriate staff from the Registrar's Office and Financial Aid and Scholarship Office at one affected campus will have NSC/NSLDS training by June 2019. In addition, a quality check process will be implemented by June 2019 for records requiring manual updates which will include confirming NSC data by the Registrar's staff and NSLDS data by the Financial Aid and Scholarships' staff.

The Registrar's office of another affected campus has begun reviewing vendor coding requirements and NSLDS information to evaluate transmissions from the NSC to NSLDS. In addition, the campus plans to integrate in the existing error transmission process additional review of NSC graduation reporting anomalies. Campus expects to finalize the review by June 2019.

When the third affected campus was informed of the error in fall 2017 during the prior year audit, procedures were immediately reviewed, adjusted, and implemented for the winter 2018 term and spring 2018 term, and no new enrollment reporting exceptions were identified by the auditor.

In addition, to re-emphasize the importance of timeliness in their processing, the University will re-issue the internally developed enrollment reporting best practices to campuses to follow to assure enrollment changes are reported appropriately through the NSC to the NSLDS.

PwC Recommendation:

PwC recommended that the campuses review the data included on the NSLDS website to confirm that the information is both accurate and timely. PwC also recommended that the affected campuses perform an integration review to ensure all students are being appropriately reported to the NSLDS.

Action taken:

The following corrective actions were completed by the affected campuses:

Staff at one affected campus have had National Student Clearinghouse/NSLDS training. In addition, a quality check system has been implemented for records requiring manual updates.

The University Registrar's office of another affected campus implemented recent DegreeVerify coding requirements to incorporate newly implemented changes made by the NSC. The University Registrar's office at this campus introduced various level of reviews and reconciliations and now manually updates graduation statuses on the NSC site in response to NSC graduation error reports.

The situation was resolved in 2018 at the third affected campus.

University of California

Summary Schedule of Prior Audit Findings and Status

Year Ended June 30, 2019

2018-004 – Disbursements

Program: Student Financial Assistance Cluster
CFDA Title: Federal Perkins Loans
CFDA Number: 84.038
Sponsoring Agency: Department of Education
Award Year: 2017 – 2018

Due to a staff turnover at the affected campus, appropriate personnel were not properly notified to withhold the release of federal funds. Effective fall 2018 all federal aid is scheduled to disburse directly to students' accounts on or after 10 days prior to the start of the term. An Associate Director is responsible for developing the Quarterly Calendar which includes the initial disbursement date for each quarter. To ensure the initial disbursement date is within the 10-day requirement, a second sign-off of the established calendar will be reviewed by another Associate Director or the Director. The Associate Director of Business Systems will ensure staff schedules the systematic disbursements according to the Quarterly Calendar.

PwC Recommendation:

We should review our procedures to ensure that federal funds are not released more than ten days before the start of each term.

Action Taken:

The following corrective actions were completed by the affected campus:

The responsibility for developing the Quarterly Calendar which includes the initial disbursement date for each quarter is assigned to one of the Associate Director. To ensure the initial disbursement date does not exceed the 10-day requirement, a second sign-off of the established calendar is being reviewed by another Associate Director or the Director. The Associate Director of Business Systems ensures staff schedule the systematic disbursements according to the Quarterly Calendar.



OFFICE OF THE EXECUTIVE VICE PRESIDENT—
CHIEF FINANCIAL OFFICER

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February 28, 2020

MANAGEMENT'S RESPONSE AND CORRECTIVE ACTION PLAN

REPORT ON AUDIT OF FINANCIAL STATEMENTS AND ON FEDERAL AWARD PROGRAMS IN ACCORDANCE WITH 2 CFR 200, UNIFORM GUIDANCE, FOR THE YEAR ENDED JUNE 30, 2019

2019-001 – IT General Controls for Retirement System (Significant Deficiency)

The University was aware of these issues and brought them to the attention of the external auditors. Additionally, activities to correct the finding above are already underway. Access to the system is approved by the University, and changes to the system follow the software development life cycle with involvement and approvals by the University before a change is made to the production system. The vendor has agreed to obtain a SOC 1 Type 2 report during the current fiscal year. As a compensating control for the period outside of the SOC 1 Type 2 report period, UC will perform periodic access reviews and periodic release reviews. These periodic reviews will include checking changes made by users having production write access for data fixes and for code changes to verify that the changes released to production were approved by University. The corrective action is underway and is expected to be completed by the end of fiscal year 2021. For inquiries regarding this finding, please contact Cheryl Lloyd at (510) 987-9289 who is responsible for the corrective actions.

2019-002 – Return of Title IV funds – Refund to the Department of Education

Three campuses were affected by this finding. At the first campus, the one untimely return of the funds was due to the Common Origination and Disbursement (COD) report being rejected by the National Student Loan Data Systems (NSLDS) for unmatched data, and the campus discovered the rejection after the specified timeframe. This campus Financial Aid and Scholarship Office will implement a process to review COD reject reports bi-weekly for completion of refund and reporting within the required time period. The campus anticipates completing the implementation by March 31, 2020. For inquiries regarding this finding, please contact Nickolaus Lekovish at (858) 534-4951 who is responsible for the corrective actions.

The automated reporting system at the second campus did not report the one untimely return to the COD system. Financial Aid and Scholarships did not review the exception report used to identify records which failed automated reporting to COD. In response to this finding, this campus has

completed the following actions as of 12/31/2019: This campus has now developed automated file download for the month end exceptions and implemented procedures to review exceptions monthly to ensure that exception reports are handled timely and for multiple academic years. The fiscal unit of Financial Aid and Scholarships does the monthly reconciliation/exception review. For inquiries regarding this finding, please contact Ina Sotomayor at (310) 206-9324 who is responsible for the corrective actions.

There was significant staff turnover during the 2018-2019 academic year at the third campus resulting in procedures being misunderstood and not consistently followed causing the three untimely and two incorrect calculations. In response to this finding, this campus has completed the following actions: In August of 2019 additional resources have been added to provide training and support to the processing staff. Procedures have now been updated as of 12/19/2019 to include additional regulatory information regarding the processing deadlines for the various student populations. In addition, the Compliance Officer at this campus has implemented additional quality review. The under-refunded amounts were returned to the Department of Education. For inquiries regarding this finding, please contact Patrick Register at (831) 459-4404 who is responsible for the corrective actions.

2019-003 – Enrollment Reporting

Three campuses are affected by this finding. At the first campus, the Registrar's Office electronically submitted the five untimely status changes to National Student Clearinghouse (NSC) before the required timeframe but after the original reporting of student status to NSC. However, in order to have these status changes made properly, NSC would need to be contacted directly and asked that the changes be made to manually update the NSLDS data. The Financial Aid and Scholarship Office will implement a process to start reviewing NSLDS data on a monthly basis by sampling a set of students with status changes to ensure timely corrections. The campus anticipates completing the implementation steps by March 31, 2020. For inquiries regarding this finding, please contact Nickolaus Lekovish at (858) 534-4951 who is responsible for the corrective actions.

While the enrollment and degree information was reported timely to NSC at the second campus, NSLDS did not receive the update for two instances because these students completed multiple majors and minors. This combination prevented these student from having their NSC enrollment status updated through the automated processes. Both students were updated manually on NSLDS. In response to this finding, this campus has completed the following actions: Beginning with January 2020 degree verify submissions, this campus has instated a process to determine the students whose degree completion status has been updated to NSC but have not had their enrollment history status updated in NSLDS. These records will be manually updated to ensure timely reporting. For inquiries regarding this finding, please contact Kate Jakway Kelly at (310) 206-4028 who is responsible for the corrective actions.

Typically all graduated students, regardless of their enrollment status, would be updated as graduated once the Registrar sends a Degree Verify file students to NSC. This file lists all graduated students that NSC uses to update the enrollment status from their current state to graduated. However, in this one unreported instance at the third campus the status of this student didn't change to graduated. In response to this finding, this campus has completed the following actions: To ensure all students with graduated status are reported to NSLDS, this campus has added a step to review the exception list in NSC for cases that did not receive the correct status and create a Graduates Only file to correct any exceptions beginning with March 2020 reporting. For inquiries regarding this finding, please contact Luke Lindquist at (805) 893-4174 who is responsible for the corrective actions.

2019-004 – Disbursements to and on Behalf of Students - Notifications

The affected campus implemented a new Student Aid Management system during the Fall 2018 quarter. During this system implementation, the right to cancel notifications for a batch of students' financial aid types were not correctly linked preventing these notices from going out for the summer. The program was corrected in December 2019. To ensure those notifications are sent within the required period of time beginning with the Summer 2020 quarter the Financial Aid and Scholarships Office will implement a process where a review of setup of batch notifications will be completed. This office will complete the review process for that batch by July 31, 2020. For inquiries regarding this finding, please contact Nickolaus Lekovish at (858) 534-4951 who is responsible for the corrective actions.



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