



1111 Franklin Street
Oakland, CA 94607-5200
Phone: (510) 987-9074
<http://www.ucop.edu>

February 27, 2020

CALIFORNIA CONGRESSIONAL DELEGATION

Dear Members of Congress:

As Congress begins work on the appropriations bills to fund the federal government for fiscal year (FY) 2021, the University of California (UC) urges your full support for federal programs and initiatives that are critical to our education, research enterprise, health care delivery, and public service missions.

As the largest public research university system in the world, UC is concerned about the Trump Administration's recently released FY 2021 budget proposal, which would make significant disinvestments in education, medical, scientific and technological programs.

UC urges Congress to set aside the White House's budget proposal and adopt a framework for funding FY 2021 that robustly funds all aspects of our government – from education and health care to defense and scientific advances.

In addition to our requests for FY2021, UC intends to submit an additional request for emergency supplemental funding to assist with our ongoing preparedness and response efforts.

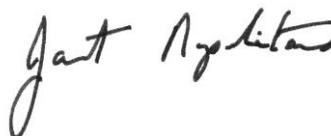
The attached document outlines the University's FY 2021 federal appropriations priorities, but there are a few areas of specific importance to which I would like to call your attention:

- **Student Financial Aid:** UC supports funding for the Pell Grant Program – through a combination of discretionary and mandatory funds – that will allow the program to adjust to inflation for the maximum FY 2021 award possible and continue to ensure that grants are available year-round. UC enrolls a higher percentage of Pell Grant recipients than any other top research university in the country, and four UC campuses each enroll more low-income students than the Ivy League institutions combined. Pell Grants and other campus-based financial aid programs, including the Federal Supplemental Educational Opportunity Grant (FSEOG) and Federal Work-Study (FWS) – which UC also strongly support – are integral to the financial aid packages UC offers to its students. Approximately 37 percent of UC students qualify for Pell Grants, and UC Pell Grant recipients graduate at comparable rates to non-Pell recipients.

- **Basic and Applied Research:** The University supports robust and sustained funding for research, including at the National Institutes of Health; the National Science Foundation; the Departments of Defense, Energy, and Agriculture; NASA; the National Oceanographic and Atmospheric Administration; and the National Endowments for the Arts and Humanities. UC researchers are well-positioned to compete for grants across the full spectrum of research programs – from precision medicine, artificial intelligence, quantum, and the Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative to agriculture, energy, the environment, national security, and advanced manufacturing.
- **Public Health Services:** With five nationally-ranked UC medical centers and 18 health science schools – collectively referred to as “UC Health” and currently serving as the fourth-largest health care delivery system in California – a strong federal partnership, including robust investment in health professions training and public health and prevention programs, is necessary to maintain the quality and magnitude of services that UC provides to Californians. Robust and sustained funding for these programs through the Health Resources and Services Administration, the Centers for Disease Control and Prevention, and the Agency for Healthcare Research and Quality, among others, allow UC to provide complex medical services, treat highly acute patients, and serve as a vital safety net provider to California’s most vulnerable patient populations.

Thank you for your continued support of the University of California. The priorities outlined in the attached document are listed by appropriations subcommittee for your consideration. If you have questions, please do not hesitate to contact me or UC Associate Vice President for Federal Governmental Relations Chris Harrington. He can be reached at (202) 974-6314, or by email at Chris.Harrington@ucdc.edu.

Yours very truly,



Janet Napolitano
President

Enclosure

cc: Chancellors
Provost and Executive Vice President Michael T. Brown
Senior Vice President Claire Holmes
Associate Vice President Chris Harrington

University of California Fiscal Year (FY) 2021 Appropriations Priorities

TABLE OF CONTENTS

Subcommittee on Agriculture, Rural Development, Food and Drug Administration, and Related Agencies
 Department of Agriculture
 National Institute of Food and Agriculture [1](#)

Subcommittee on Commerce, Justice, Science and Related Agencies
 National Aeronautics and Space Administration [2](#)
 National Science Foundation [4](#)
 Department of Commerce
 National Oceanographic and Atmospheric Administration [5](#)
 Economic Development Agency [7](#)

Subcommittee on Defense
 Department of Defense [7](#)

Subcommittee on Energy and Water Development, and Related Agencies
 Department of Energy [9](#)

Subcommittee on Homeland Security
 Department of Homeland Security [11](#)

Subcommittee on the Interior, Environment and Related Agencies
 Department of the Interior
 Bureau of Reclamation [11](#)
 U.S. Geological Survey [12](#)
 National Endowment for the Humanities [13](#)
 National Endowment for the Arts [13](#)
 Environmental Protection Agency [13](#)

Subcommittee on Labor, Health and Human Services, Education and Related Agencies
 Department of Education [14](#)
 Department of Health and Human Services
 National Institutes of Health [19](#)
 Health Resources and Services Administration [20](#)
 Centers for Disease Control and Prevention [21](#)
 Agency for Healthcare Research and Quality [22](#)

Subcommittee on State, Foreign Operations and Related Programs
 U.S. Agency for International Development [23](#)

Subcommittee on Transportation, Housing and Urban Development and Related Agencies
 Department of Transportation [24](#)

SUBCOMMITTEE ON AGRICULTURE, RURAL DEVELOPMENT, FOOD AND DRUG ADMINISTRATION, AND RELATED AGENCIES

Department of Agriculture (USDA), National Institute of Food and Agriculture (NIFA)

The University of California (UC) requests \$1.062 billion for NIFA Research, Education and Extension Programs that enable UC’s partnership with California’s agricultural producers and ensure a safe, secure and plentiful supply of food and energy, as well as clean and sustainable air, water and other natural resources. USDA funding also supports UC’s effective nutrition education efforts throughout California. Programs vital to UC include:

Agriculture and Food Research Initiative (AFRI)

- **Recommendation:** UC supports \$460 million for AFRI.

UC Request	FY 2020 Enacted	FY 2021 President’s Budget Request
\$460 million	\$425 million	\$600 million

UC supports \$460 million for the AFRI, which funds competitive research on human nutrition and health, agricultural productivity and sustainability, renewable energy and biofuels, water supply, and air and water quality. In the 2018-19 academic year, UC had 111 active AFRI projects, totaling \$49 million in competitively awarded funding to find cutting edge solutions for high-priority issues affecting California’s rural and urban communities.

USDA Capacity Grants programs – Hatch Act, Smith-Lever 3(b)-3(c) and McIntire-Stennis Cooperative Forestry

- **Recommendation:** UC supports \$280 million for Hatch Act, \$341 million for Smith-Lever 3(b)-3(c); and, \$39 million for McIntire-Stennis capacity grants program.

	UC Request	FY 2020 Enacted	FY 2021 President’s Budget Request
Hatch Act	\$280 million	\$259 million	\$243 million
Smith-Lever 3(b)-3(c)	\$341 million	\$315 million	\$299.4 million
McIntire-Stennis	\$39 million	\$36 million	\$28.8 million

UC supports the above requested funding levels for the Hatch, Smith-Lever 3(b)-3(c) and McIntire-Stennis capacity grant programs, which are crucial to UC’s agricultural research and extension work across every county in California. These programs enable UC to support California agricultural producers by improving varietal development, production efficiencies, cropping methods and conservation practices.

UC also supports \$30 million for the National Animal Health Lab Network, robust funding for the Crop Protection/Pest Management (CP/PM) Program, \$19 million for the Minor Crop Pest Management (IR-4) Program, \$3 million for the Veterinary Services Grant Program and \$2.5 million for the Food Avoidance Residue Databank.

Expanded Food and Nutrition Education Program (EFNEP)

- **Recommendation:** UC supports \$73.5 million for EFNEP.

UC Request	FY 2020 Enacted	FY 2021 President’s Budget Request
\$73.5 million	\$70 million	\$69 million

UC supports \$73.5 million for EFNEP, through which UC delivers hands-on, practical lessons on food, nutrition and healthy lifestyles to needy families. National studies show that for every \$1 invested in this Cooperative Extension program, approximately \$8 are saved in current and future health care costs for “at risk” populations.

Specialty Crop Research Initiative (SCRI)

UC supports full funding for the SCRI program, which provides critical funding for specialty crop research. UC also supports the inclusion in FY 2021 of language enacted in FY 2020, which allows the Secretary of Agriculture to waive the matching funds requirement under Section 412(g) of the Agricultural Research, Extension, and Education Reform Act of 1998 (7 U.S.C. 7632(g)). Allowing the Secretary of Agriculture to waive the matching funds requirement applicable to the SCRI program, is critical to allowing cutting edge specialty crops research to address diseases and challenges facing the specialty crop industry.

Citrus Disease Research

UC supports the highest possible level of funding to support critical research efforts to combat and further understand Huanglongbing, known as citrus greening disease, which continues to pose a critical threat to citrus crops. **UC also supports \$193 million for the Agriculture Research Service Building and Facilities**, including **\$1.025 million to for citrus screenhouses**, and **\$5.5 million to continue to fund the Citrus Multi-Agency Coordination program** in order to support growers’ and researchers’ abilities to quickly respond to citrus greening disease and Asian Citrus Psyllid.

Agriculture Advanced Research and Development Authority (AGARDA)

UC supports robust funding for AGARDA, which was authorized in the 2018 farm bill to leverage successful public-private partnerships to improve efficiency and accelerate research and development in pursuit of overcoming long-term and high-risk agricultural and food related science challenges.

SUBCOMMITTEE ON COMMERCE, JUSTICE, SCIENCE AND RELATED AGENCIES

National Aeronautics and Space Administration (NASA)

NASA Science Mission Directorate (SMD)

- **Recommendation:** UC supports \$7.25 billion for the NASA SMD.

UC Request	FY 2020 Enacted	FY 2021 President’s Budget Request
\$7.25 billion	\$7.138 billion	\$6.306 billion

UC supports \$7.25 billion for the NASA SMD, which funds research on the Earth, our solar system and the universe. UC researchers are highly successful in competing for NASA research awards, further enabling them to be international leaders in astronomy, earth and space sciences.

Within SMD, UC supports **\$2.02 billion for NASA Earth Science programs**, the mission of which is to “develop a scientific understanding of the Earth system and its response to natural and human-induced changes...[which] enables us to improve prediction of climate, weather, and natural hazards.”

UC also supports **\$505 million for continued development of the Wide Field Infrared Survey Telescope (WFIRST) mission** within the Astrophysics Exoplanet Exploration program, which NASA has referred to as “the highest-priority large mission in the National Research Council Decadal Survey (2010).”

UC supports \$780 million for the Heliophysics Division. This amount is needed to support missions under development within the Solar Terrestrial Probes and Heliophysics Explorer programs without jeopardizing the future of vital activities within the other elements of the Heliophysics Division. These include the Diversify, Realize, Integrate, Venture, Educate (DRIVE) Initiative, new technology development activities, the new Space Weather Science and Applications program, and missions under formulation within the Living with A Star program, including the Geospace Dynamics Constellation.

UC supports \$1 million for the establishment of at least 2, but not more than 5, university centers of excellence for Cubesat research and development, with up to \$500,000 for each center.

UC also supports \$10 million for technosignatures research under the Astronomy and Astrophysics portfolios. This funding will support research to search for and analyze technosignatures in order to meet the NASA objective to search for life’s origin, evolution, distribution and future in the universe. The funds are intended to support a mix of peer-reviewed scientific research, graduate fellowships, postdoctoral fellowships and any required observational infrastructure.

NASA Space Technology Programs

- **Recommendation:** UC supports \$1.578 billion for the NASA Space Technology Program.

UC Request	FY 2020 Enacted	FY 2021 President’s Budget Request
\$1.578 billion	\$1.1 billion	\$1.578 billion

UC supports \$1.578 billion for NASA Space Technology programs, including innovation initiatives such as the Space Technology Research Institutes (STRIs), Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs. Under these programs, UC and other academic institutions partner with NASA and other stakeholders to research and rapidly develop new space technologies. There are four NASA STRI’s and UC is home to two of them—the CUBES Institute at UC Berkeley and HOMES Institute at UC Davis.

Space Grant College and Fellowship Program

- **Recommendation:** UC supports \$50 million for the Space College and Fellowship Program.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$50 million	\$48 million	\$0

UC supports \$50 million for the Space Grant College and Fellowship Program, a national network that gives students practical hands-on training in support of NASA's aeronautics and space missions, and inspires them to pursue science, technology, engineering and mathematics (STEM) careers. Headquartered at UC San Diego, the California Space Grant Consortium engages 28 California affiliates, including nine UC campuses, 10 California State University campuses, three NASA centers and other universities.

National Science Foundation (NSF)

- **Recommendation:** UC supports \$9 billion for the NSF.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$9 billion	\$8.278 billion	\$7.741 billion

UC supports \$9 billion for NSF programs supporting merit-reviewed, fundamental research across all areas of science, engineering and education in NSF's seven research directorates and in cross-cutting research programs, including:

- Geosciences (GEO) – NSF's GEO research directorate addresses critical earth, oceans and atmospheric processes that impact our economic and national security;
- Social, Behavioral and Economics (SBE) – multidisciplinary research promoting understanding of people through the study of human behavior and societal questions and problems;
- Understanding the Brain (UtB) – cognitive and neuroscience research enabling understanding of brain complexity, developing tools to assist in this research and training future neuro-engineers;
- Advanced Manufacturing – cutting-edge tools and techniques that will transform the fields of bioengineering, cyber-manufacturing, nanosystems design and clean energy development; and
- Innovations at the Nexus of Food, Energy and Water Systems (INFEWS) – interdisciplinary research looking at the interconnections between these critical resource systems.

NSF sponsors about 20 percent of all merit-based university research across every discipline and helps to train and educate the next generation of the scientific and engineering workforce. California researchers compete extremely well for NSF funding. In FY 2018, UC researchers successfully competed for \$512 million in NSF funding across 2,243 grant awards. Historically, UC's NSF research funding represents more than half of the total for all California institutions.

UC supports a robust increase for the Convergence Accelerator, a new capability to accelerate use-inspired, convergence research in areas of national importance. UC encourages the program to consider research focused on addressing natural disasters and wildfires.

UC supports \$300 million for Mid-scale Infrastructure (MRI) projects. NSF, the National Science Board, Congress and the scientific community have all identified midscale research infrastructure as a critical need for NSF to bridge the gap between MRI and Major Research Equipment and Facilities Construction (MREFC). UC also supports a robust increase for the MREFC account to fund needed facility and equipment construction and instrumentation improvement programs. In addition, **UC supports \$40.75 million for the Vera C. Rubin Observatory Large Synoptic Survey Telescope (LSST) commissioning.** UC Davis, UC Santa Cruz and the Lawrence Livermore National Lab are major scientific partners for the LSST, which was ranked as the top large ground-based astronomy project by the National Research Council’s 2010 Decadal Survey.

NSF Education and Human Resources programs achieve excellence in STEM at all levels – including graduate and undergraduate education – contributing to a well-trained scientific workforce. Among them, the **Graduate Research Fellowship Program (GRFP)** provides critical support for the nation’s top graduate students’ research studies. In 2018, a significant number of UC graduate students from all 10 UC campuses earned prestigious GRFP fellowships – nearly 15 percent of the total awards for that year.

UC students and campuses are also strongly represented in the **Innovation Corps (I-Corps)** programs, whose purpose is to strengthen the national innovation ecosystem to carry fundamental research discoveries into technologies, products, processes and services that benefit society. UC also participates in and supports the **INCLUDES program** – an initiative to develop science and engineering talent across all sectors of society, including underrepresented groups.

UC also supports multidisciplinary public health research to better understand the nature, causes and consequences of violence, unintended injury and death involving firearms.

Department of Commerce, National Oceanographic and Atmospheric Administration (NOAA)

Office of Oceanic and Atmospheric Research (OAR)

- **Recommendation:** UC supports \$592 million for OAR.

UC Request	FY 2020 Enacted	FY 2021 President’s Budget Request
\$592 million	\$548.3 million	\$327 million

UC supports \$592 million for OAR research programs. UC researchers rely on NOAA competitive research funding for the collection of climate, weather and water data, including ocean observing for accurate weather forecasting, which is essential to California agriculture, energy and fisheries. UC also contributes to national priorities for world-class weather, atmospheric, water and drought research and observations that are vital for effective disaster preparedness, as well as the mission needs of the U.S. Navy, NASA and other federal agencies.

Within OAR, **UC supports robust funding for climate, weather and oceans research programs, including:**

- **\$41.5 million for the Regional Climate Data and Information Program;**
- **\$74 million for the Climate Laboratories and Cooperative Institutes;**
- **\$55 million for Sustained Ocean Observations and Monitoring; and,**
- **\$20 million for the Integrated Ocean Acidification Program.**

Historically, UC receives about 10 percent of OAR funding annually. This account also funds the **National Integrated Drought Information System (NIDIS)** and the **Regional Integrated Sciences and Assessments (RISA)** programs, which provide dynamic and accessible drought information for the nation, and support research teams that work with public and private users to build our capacity to prepare for and adapt to environmental variability and change.

National Sea Grant College Program, OAR

- **Recommendation:** UC supports \$93.5 million for the National Sea Grant College Program.

UC Request	FY 2020 Enacted	FY 2021 President’s Budget Request
\$93.5 million	\$74 million	--

UC supports \$93.5 million for the National Sea Grant College Program, a university-based coastal and marine research network, which facilitates knowledge transfer from researchers to the marine industry and the public. Based at the UC San Diego Scripps Institution of Oceanography, California’s Sea Grant Program sponsors research and extension activities involving public and private institutions throughout the state.

Office of Marine and Aviation Operations (OMAO), Aviation Operations and Aircraft Services, Operations, Research, and Facilities (ORF)

- **Recommendation:** UC supports \$39.25 million for OMAO ORF.

UC Request	FY 2020 Enacted	FY 2021 President’s Budget Request
\$39.25 million	\$37.75 million	--

UC supports \$39.25 million for the OMAO ORF, including \$3 million for Increased Western Winter Storm Observations. The location, timing and intensity of heavy precipitation events on the US West Coast are controlled largely by the characteristics of land-falling atmospheric rivers (ARs). There is a pressing need to improve prediction of ARs to support water management and flood control information needs – as revealed by the Oroville Dam Spillway event. Enhanced observations, modeling and data assimilation are critical to improving predictability of AR landfalls with lead times of weeks to months.

Regional Integrated Ocean Observing System (IOOS) in the National Ocean Service

- **Recommendation:** UC supports \$44.1 million for IOOS.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$44.1 million	\$39 million	--

UC supports \$44.1 million for IOOS. IOOS involves 17 federal agencies and a national network that provides new tools and forecasts for maritime commerce, fisheries, aquaculture, offshore energy, coastal communities, public health and other users' needs. UC is active in two systems, the Central and Northern California Ocean Observing System (CeNCOOS) and the Southern California Coastal Ocean Observing System (SCCOOS).

Department of Commerce, Economic Development Agency

Economic Development Agency (EDA), Regional Innovation Program

UC supports \$17 million for the EDA Regional Innovation Program for university-based incubators. UC encourages EDA to invest in university-based, high-tech business incubators to encourage entrepreneurship and promote technology commercialization through business startups. Furthermore, this program should support public-private partnerships for economic growth and job creation in areas with historically high unemployment and with a focus on Minority-Serving Institutions.

SUBCOMMITTEE ON DEFENSE

Department of Defense (DOD)

Basic Research (6.1)

- **Recommendation:** UC supports \$2.759 billion for Defense Basic Research (6.1).

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$2.759 billion	\$2.603 billion	\$2.319 billion

UC supports \$2.759 billion for Defense 6.1 Basic Research within a total request of \$17.037 billion for the Defense Science and Technology (6.1-6.3) research and development portfolio. This ratio will help to ensure a balanced research and development pipeline that is vital to our national security. Conducted by the Army, Navy, Air Force and the Office of the Secretary, Defense Basic (6.1) and Applied (6.2) research programs fund the largest share of DOD-sponsored university research, especially in the physical and computer sciences and engineering. The UC research partnership with DOD spans more than 50 years and has led to a wide range of technological innovations, including new advanced materials, communications and computing, and life-saving medical discoveries and technologies.

Within the Defense Science and Technology portfolio, **UC supports:**

- **\$3.665 billion for the Defense Advanced Research Projects Agency (DARPA)**, which invests in high-risk, high-reward research to develop breakthrough military capabilities.
- **\$134.794 million for Army University and Industry Research Centers** (PE 0601104A), including **\$4 million for the Army University Affiliated Research Center (UARC) – the Institute of Collaborative Biotechnologies** – at UC Santa Barbara.
- **\$145.9 million for Army Solder Lethality Technology** (PE 0602143A, Line 14), including an increase of \$2 million for a UC Santa Barbara partnership with Army to research synthetic biology-enabled functional materials.
- **\$148.016 million for Army Network C3I Technology** (PE 062146A, Line 15), including an increase of \$10 million for a UC Berkeley and UC Santa Barbara partnership with Army Research Laboratory to develop hierarchical agile resonate materials and \$3 million for a UC Santa Barbara and Army partnership for research on microbiological intelligence in the arctic regions.
- **\$491.6549 million for Navy Defense Research Science Programs** (PE 0601153N), which support scientific study and experimentation to increase knowledge and understanding in national security-related aspects of physical, engineering, environmental and life sciences.
- **\$177.921 million for Navy University Research Initiatives, including an increase of \$20 million for the Defense University Research Instrumentation Program (DURIP)** (PE 0601103N).
- **\$83.392 million for Ocean Warfighting Environment Applied Research, including an increase of \$10 million for Research at Sea in support of Task Force Ocean priorities and an increase of \$10 million for Naval Special Warfare Research and Development** (PE 0602435N).
- **\$377.473 million for Air Force Defense Research Sciences Programs** (PE 0601102F), which supports fundamental broad-based scientific and engineering research in areas critical to Air Force weapon, sensor and support systems.
- **\$26.64 million for Air Force Weather Service, including an increase of \$3 million for Enhanced Weather Prediction and Research on Atmospheric Rivers** (PE 0305111F).
- **\$40 million for the National Security Innovation Network** (PE 0603950D8Z) **for the National Security Academic Accelerator.**
- **\$5 million for the Smart Base initiative in the Emerging Environmental Program** (PE 0602131M) at SPAWAR (The Space and Naval Warfare Systems Command), which will create new opportunities for smart transportation and digital security technology research.
- **\$75.126 million for Basic Research Initiatives** (PE 060111D8Z), including **\$20 million for the Minerva Initiative**, which deepens our understanding of the cultural and political conditions in areas of the world of strategic importance to our national security.
- **\$1.712 billion for the DoD Congressionally Directed Medical Research Programs**, which fosters novel approaches to biomedical research. These programs fill research gaps by funding high impact, high risk and high gain projects that other agencies may not venture to fund.
- **\$16 million for the Defense Language and National Security Education Office within the DoD Human Resources Activity account (defense-wide)**, which is an important partnership with universities across the country that provides critical accredited training for service members and government officials in a number of languages and strategic cultures.

Defense Basic Research accounts also support education and training for students who will become DOD’s future scientific and technological workforce. UC supports the highest possible funding levels for the **National Defense Education Program and the National Defense Science and Engineering Graduate Fellowships program.**

SUBCOMMITTEE ON ENERGY AND WATER DEVELOPMENT, AND RELATED AGENCIES

Department of Energy (DOE)

Office of Science (OS)

- **Recommendation:** UC supports \$7.4 billion for the Department of Energy’s Office of Science.

UC Request	FY 2020 Enacted	FY 2021 President’s Budget Request
\$7.4 billion	\$7 billion	\$5.760 billion

UC supports \$7.4 billion for the DOE OS, the primary federal agency supporting basic physical sciences research, which are vitally important to our country’s economic and national security. OS research at UC includes: basic energy sciences, advanced clean energy sources, energy efficiency technologies, biological and environmental research, high performance scientific computing, new materials, engineering and STEM education and fellowship programs. UC researchers also collaborate at DOE’s 17 world-class national laboratories with access to the largest collection of major scientific user facilities in the world. Collectively, these facilities serve over 32,000 university researchers, students and industry scientists every year.

Within OS, **UC supports research programs and scientific infrastructure investments that are fundamental to U.S. innovation leadership**, including:

- Maintaining a healthy balance among core research programs and facilities construction and operations is critical. UC urges appropriators to ensure that core research programs are adequately funded to address this balance.
- **\$715 million for Fusion Energy Sciences.** UC and Lawrence Berkeley National Laboratory are performing leading-edge fusion research and training the next generation of researchers. **\$120 million for Berkeley Lab’s National Energy Research Scientific Computing Center and \$90 million for the Energy Sciences Network (ESnet)**, which play vital roles in the nation’s high-performance computing and advanced computing networking ecosystem (Advanced Scientific Computing Research); **\$5 million to establish a high-intensity laser-based center at a university**, which will provide researchers with access to cutting edge technology, train students and create a sustained workforce, and provide a platform for start-up companies in the region to test their ideas and engage with students in energy and national security-related issues.
- **\$75 million to keep the upgrade of the Lawrence Berkeley National Laboratory (Berkeley Lab) Advanced Light Source (ALS-U) on schedule** (Basic Energy Sciences (BES));
- In order to sustain world leadership in scientific user facilities, **UC supports \$546 million for operation of the department’s light sources, \$144.5 million for the Nanoscale Science Research Centers (NSRC), and \$20 million for the recapitalization of scientific equipment at the NNSRCs.**

- **Robust funding for the Energy Frontier Research Centers (EFRCs)**, which are partnerships focused on grand challenges and use-inspired basic research, **and for the Energy Innovation Hubs** – centers that combine basic and applied research with engineering to accelerate scientific discovery on critical energy issues. These programs support multidisciplinary collaborations that enable UC faculty and students to work with federal laboratories and industry scientists (BES).
- **\$788 million for Biological and Environmental Research**, including **\$25 million for the Joint BioEnergy Institute**, **\$80 million for the Joint Genome Institute**, and funding to support the following three initiatives led by the Berkeley Lab:
 - **\$7 million for Next Generation Ecosystem Experiments (NGEE) – Tropics**;
 - **\$6.8 million for the Watershed Function Scientific Focus Area (SFA)**; and
 - **\$5.1 million for the AmeriFLUX Long-Term Earth System Observations**.
- **\$53 million for the Biological and Environmental Program Integration Center (BioEPIC)**, a Science Laboratories Infrastructure construction project which will help bridge the biological sciences with earth and environmental sciences in novel and productive ways.
- **Funding to support additional critical Science Laboratories Infrastructure projects**, including **\$15 million for the Linear Assets Modernization Project** and **at least \$15 million for projects to better prepare Lawrence Berkeley National Laboratory for the PG&E public safety power shutdowns**.

UC supports robust funding for the Office of Energy Efficiency and Renewable Energy (EERE) at a level of at least \$2.790 billion. UC supports funding for programs within EERE that support UC and the UC-affiliated labs to research, develop, demonstrate and deploy clean energy technologies.

UC supports DOE’s efforts to address “energy-water nexus” issues related to the interconnections between our nation’s energy and water systems, **including \$25 million for the Energy-Water Desalination Hub under the Advanced Manufacturing Office**.

Advanced Research Projects Agency-Energy (ARPA-E)

- **Recommendation:** UC supports \$497 million for ARPA-E.

UC Request	FY 2020 Enacted	FY 2021 President’s Budget Request
\$497 million	\$425 million	\$0

UC supports \$497 million for ARPA-E, which funds technology concepts with potential to radically transform the energy sector but are too early in development to attract private-sector investments. In less than a decade, ARPA-E has invested in more than 400 projects, leading to the creation of new companies and attracting more than \$1.25 billion in follow-on private sector investment. UC researchers are among the most successful ARPA-E awardees.

Office of Environmental Management

UC supports \$35 million to complete the cleanup of the radiation contaminated parts of the Lawrence Berkeley National Laboratory Bayview Site using funding from the Non-Defense Environmental Cleanup. This funding will allow the Lab to meet its commitment to the Berkeley and Oakland communities that it will not build on greenfield sites.

SUBCOMMITTEE ON HOMELAND SECURITY

Department of Homeland Security (DHS)

Science and Technology (S&T) Directorate

- **Recommendation:** UC supports \$780 million for DHS S&T Directorate.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$780 million	\$737.275 million	\$643.729 million

UC supports \$780 million for the S&T Directorate, which funds basic and applied research to develop advanced technologies and methodologies to protect the nation's communities, ports, coasts, food supplies, borders and infrastructure. UC researchers have successfully competed for research grants on nuclear detection, food system protection, public health assessment and first responder safety. Within the S&T Directorate, **UC also supports an increase of \$5 million for the U.S. Coast Guard's Blue Technology Center of Expertise**, which will help identify and provide opportunities for rapid identification, evaluation and transition of new blue technologies into Coast Guard capabilities and mission sets.

University Programs, S&T Directorate

- **Recommendation:** UC supports \$45.5 million for University Programs.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$45.5 million	\$40.5 million	\$21.7 million

UC supports \$45.5 million for University Programs within the DHS S&T Directorate. University Programs support collaborative, multi-disciplinary research at universities across the country that contribute to the prevention and response to homeland security threats, as well as STEM education programs. UC also supports expanding the center of excellence program to align with industries of the future.

SUBCOMMITTEE ON THE INTERIOR, ENVIRONMENT AND RELATED AGENCIES

Department of Interior, Bureau of Reclamation

Bureau of Reclamation

UC supports \$2 million for projects that mitigate the Salton Sea's decline. These resources will support the multi-faceted approach that is key to making progress in protecting the health of local residents and the environment around the Salton Sea.

Department of Interior, U.S. Geological Survey (USGS)

USGS Earthquake Hazards Program (EHP)

- **Recommendation:** UC supports \$87.93 million for EHP.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$87.93 million	\$84.9 million	\$60.3 million

UC supports \$87.93 million for the USGS EHP. Within the EHP program, **UC requests \$22 million to fully develop and operate the West Coast earthquake early warning system.** UC scientists are also working to improve capabilities of the Central and Eastern United States Network (CEUSN). Effective earthquake preparedness and monitoring tools are critical to public safety in California and the nation. Researchers at UC and other California universities contribute greatly to the study and analysis of these natural disasters.

USGS State Water Resources Research Institutes (WRI), Water Resources Research Program

- **Recommendation:** UC supports \$11 million for the WRI program.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$11 million	\$10 million	\$0

UC supports \$11 million for the USGS WRI Program, which is the only federally supported, national network for applied water resource research, education, training and outreach. UC operates the California Institute for Water Resources (CIWR), which supports researchers in developing solutions to costly and difficult water problems in California. With ongoing drought and water management concerns, CIWR is actively engaged in providing information and resources to California producers, consumers, businesses, and state and local governments. CIWR maintains a [website](#) that is updated daily with flood- and drought-related information.

Department of Interior, Wildland Fire Management

Joint Fire Science Program

- **Recommendation:** UC supports \$16 million for the Joint Fire Science program.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$16 million	\$6 million	\$3 million

UC supports \$16 million for the Joint Fire Science Program. Wildfire is a rapidly growing threat to communities, ecosystems, and families across the nation, as fire seasons grow longer and increasingly severe. Now more than ever, our nation needs to increase investment in high-quality fire science delivery to support policymakers, managers and practitioners in addressing the complex challenges of wildfire.

National Endowment for the Humanities (NEH)

- **Recommendation:** UC supports \$170 million for the NEH.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$170 million	\$162.3 million	\$33 million

UC supports \$170 million for the NEH, which provides critical support to the only federal agency dedicated to promoting and enhancing research, education and public programs in the humanities. UC researchers and scholars compete for NEH funds to strengthen teaching and learning; create new knowledge through extensive, in-depth study; and preserve and protect cultural and educational treasures. The UC Humanities Network supports, stimulates and facilitates excellence in humanities research across all 10 UC campuses. The network allows for important academic discourse, while promoting knowledge, discovery and modes of understanding that are crucial to California and its local and global communities. The president's budget request eliminates the NEH and provides only sufficient funding to wind down the endowment's operations over two years.

National Endowment for the Arts (NEA)

- **Recommendation:** UC supports \$170 million for NEA.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$170 million	\$162.3 million	\$30 million

UC supports \$170 million for the NEA, which is dedicated to providing people across the country with opportunities to participate in and experience the arts. NEA funding supports arts partnerships, special initiatives, individual projects and research in all 50 states that contribute to the strength and success of America's neighborhoods, students, schools and cultural life. UC researchers and scholars compete for NEA funds, and successful NEA-funded projects benefit students and the public by providing access to art that would not otherwise be available in many California communities. The president's budget request eliminates the NEA and provides only sufficient funding to wind down the endowment's operations over two years.

Environmental Protection Agency (EPA)

EPA, Office of Science and Technology

- **Recommendation:** UC supports \$748 million for EPA S&T.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$748 million	\$716.4 million	\$484.7 million

UC supports \$748 million for EPA Science and Technology programs to protect human health and the environment. EPA's research programs – Air, Climate and Energy (ACE), Safe

and Sustainable Water Resources (SSWR), Sustainable and Healthy Communities (SHC) and Chemical Safety for Sustainability (CSS) – fund foundational science related to chemical safety, land restoration, air and water pollution prevention and national security. UC researchers have current EPA research grants on issues such as nutrient transport in groundwater, the future use of pesticides in warming environments and environmental risks to children’s health.

SUBCOMMITTEE ON LABOR, HEALTH AND HUMAN SERVICES, EDUCATION AND RELATED AGENCIES

Department of Education (ED)

Pell Grant Maximum Award

- **Recommendation:** UC supports raising the maximum annual Pell Grant to \$7,000, without further eroding funding from the Pell surplus.

UC Request	FY 2020 Enacted	FY 2021 President’s Budget Request
\$7,000	\$6,345	\$6,345

UC recommends increasing the maximum Pell Grant to \$7,000. Increasing the maximum Pell Grant protects recipients from inflationary pressures and makes higher education more affordable and attainable for students with limited means. This increase makes a down payment on the funding level necessary to sustain students’ basic needs—including housing and food security, health care and child care—and promote on-time graduation among the most vulnerable student populations.

Pell Grant Discretionary Appropriations

- **Recommendation:** UC supports the funding level necessary to reach a maximum award of \$7,000.

UC Request	FY 2020 Enacted	FY 2021 President’s Budget Request
Sums necessary to reach a maximum award of \$7,000	\$22.48 billion	\$22.48 billion

More than 82,000 UC undergraduate students currently receive Pell Grants, a critical foundation for the state and institutional aid UC students receive. Currently, California residents with family incomes of up to \$80,000 receive aid that covers their tuition, and nearly two-thirds of UC undergraduates receive grant assistance that allows them to cover part of the cost of food, housing and other expenses. All UC students are expected to contribute to their own cost of education with loans, earnings from work or savings. Without robust funding for Pell Grants, UC students would have to borrow more, work beyond what is considered manageable and may take longer to complete their degrees.

Supplemental Educational Opportunity Grant (SEOG)

- **Recommendation:** UC supports \$1.05 billion for SEOG.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$1.05 billion	\$865 million	\$0

SEOG provides students who have exceptional financial need with additional grant aid to help promote degree completion. These grants range from \$100-\$4,000, and at UC during the 2018-19 academic year, 16,626 students received an average award of \$919. Investing in this program is critical to ensuring that the students who are most financially vulnerable have the support they need to complete their academic studies. The president's budget request's proposed elimination of the program severely disadvantages UC's lowest-income students, potentially lengthening the time to degree or forcing students to drop out due to unexpected hardship. SEOG is targeted to the most financially vulnerable students at UC and is complementary to efforts to help students graduate on time—this aid should not be viewed as an alternative to the Pell Grant program, but as a *supplement*.

Federal Work-Study (FWS)

- **Recommendation:** UC supports \$ 1.467 billion for FWS.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$1.467 billion	\$1.18 billion	\$500 million

FWS supports students who elect to work during their academic studies and encourages community service and on-campus work. FWS funding makes up a portion of a student's earnings, and the remainder is provided by the employer, thereby encouraging employers to hire students who have earned FWS as part of their financial aid package. Many students gain valuable work experience through their FWS opportunity, often guiding them to a career path they want to pursue upon graduation. The president's budget request's proposed reduction in funds for FWS would reduce the amount of support that students can potentially earn as part of their financial aid package and reduces the overall aid available to students.

Student Loans

UC supports strong and sustained efforts to keep the cost of student loans manageable, and to ensure that the federal government provides borrowers with the essential services they need. UC also supports the restoration of federal loan subsidies for graduate students and maintaining the subsidy for low-income undergraduate students. Proposals that provide relief to needy students are the basis of the federal investment in federal student aid, and efforts to reform and streamline loan repayment plans and improve program effectiveness will benefit borrowers and the federal government.

TRIO Programs

- **Recommendation:** UC supports \$1.15 billion for TRIO programs.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$1.15 billion	\$1.09 billion	\$950 million

GEAR UP

- **Recommendation:** UC supports \$400 million for GEAR UP.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$400 million	\$365 million	\$0

UC supports \$1.15 billion and \$400 million for TRIO and GEAR UP programs, respectively. These complementary and demonstrably successful early intervention and academic preparation programs only reach a small fraction of eligible students and should be expanded to allow further participation. TRIO's Student Support Services program is specifically targeted to help low-income, first-generation students with undergraduate retention, transfer and completion success. At UC, 41 percent of undergraduate students are first-generation and 37 percent of undergraduate students qualify for Pell Grants. Reductions to TRIO programs in the president's budget request, and wholesale elimination of GEAR UP would undermine UC's efforts to support the pipeline from K-12 through higher education.

Aid for Hispanic-Serving Institutions (HSIs) – Title V

Part A – Strengthening Hispanic-Serving Institutions

- **Recommendation:** UC supports \$170 million for Title V Part A programs.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$170 million	\$143 million	\$0

Aid for Hispanic-Serving Institutions (HSIs) – Title V

Part B – Promoting Postbaccalaureate Opportunities for Hispanic Americans

- **Recommendation:** UC supports \$35 million for Title V Part B programs.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$35 million	\$12.8 million	\$0

UC supports \$170 million for Title V, Part A competitive grants to help HSIs expand and enhance their undergraduate academic programs, and \$35 million for Title V, Part B, which promotes postbaccalaureate opportunities for Hispanic Americans designed to help them succeed in graduate school. UC has several campuses that serve large numbers of Hispanic students and would be eligible to apply for these funds.

Teacher Preparation

- **Recommendation:** UC supports \$2.6 billion for teacher preparation grants.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$2.6 billion	\$2.131 billion	\$0

UC supports \$2.6 billion for Supporting Effective Instruction State Grants authorized in Title II of the reauthorized Elementary and Secondary Education Act. These funds improve teacher preparation programs and help recruit and train high-quality K-12 teachers, as well as reduce classroom sizes. The president's budget request eliminates these grants

Child Care Access Means Parents In Schools (CCAMPIS)

- **Recommendation:** UC supports \$150 million for CCAMPIS.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$150 million	\$53 million	\$15 million

UC supports \$150 million for CCAMPIS. CCAMPIS provides low-income student-parents with reliable and affordable access to campus-based child care services, allowing parents to pursue higher education while raising young children. Current funding levels only allow for a small number of student-parents to benefit from this assistance nationally; expansion of the program would both address basic needs issues prevalent on campuses across the country and provide safe, local educational opportunity for students' children.

Teacher Quality Programs

- **Recommendation:** UC supports \$80 million for Teacher Quality Partnership Grants.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$80 million	\$50 million	\$0

UC supports \$80 million for Teacher Quality Partnership Grants. UC supports robust funding for programs that promote teacher quality, spark improvements in computer science instruction, promote preparation of STEM education teachers, support school leadership training, enhance professional development and advance innovations in teaching and learning. These programs faced significant cuts—and in the case of Teacher Quality Partnership Grants, total elimination—in the president's budget request, undermining the university's ability to help address the growing shortage of high-quality educators.

Title VI International Education Programs

- **Recommendation:** UC supports \$106.1 million for Title VI programs.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$106.1 million	\$76 million	\$0

UC supports \$106.1 million for Title VI International Education programs. At UC, Title VI supports research and expertise through National Resource Centers, which are important tools in serving the nation's economic, diplomatic, defense and national security needs. Increased investments in Title VI programs are needed to support our nation's increasingly global economy and to ensure a steady pipeline of individuals with global understanding and language proficiency across professions. The increase in funding would support new National Resource Centers and Centers for International Business Education and Research (CIBER). Additional funding would also make Foreign Language and Area Studies (FLAS) fellowship stipends equal NSF graduate student stipends and increase the number of FLAS fellowships. UC opposes the elimination of Title VI programs, which are unique in their interdisciplinary mission.

Graduate Assistance in Areas of National Need (GAANN)

- **Recommendation:** UC supports \$28 million for GAANN.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$28 million	\$23 million	\$0

UC supports \$28 million for graduate education support in the Department of Education to drive excellence and innovation in business, science, academia and government. Graduate fellowship support, including GAANN, which awards fellowships to graduate students who contribute to federally-determined fields of national interest, is vitally important to the country and to the talented scholars who require this support to continue their work. A stronger federal commitment to graduate education is needed to sustain a pipeline of skilled workers in all sectors of the economy, as well as qualified professors who will mentor and train the teachers and students of tomorrow.

Institute of Education Sciences (IES)

- **Recommendation:** UC supports \$670 million for IES.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$670 million	\$623.4 million	\$565.4 million

UC supports \$670 million for IES programs. The university is a major innovator in educational research and is continuously working to increase the knowledgebase on teacher effectiveness and the science of learning, while working in K-12 schools to improve the quality of educational practice. UC researchers use competitive funds from IES to address the nation's most pressing education needs, from early childhood to adult education, including increasing

the number and quality of math and science teachers, improving teacher evaluations and the creation of successful professional development models.

UC requests an IES study to look at how regional costs of living and income levels affect a family’s ability to qualify for and access federal student grant aid. This would be very important information for our state, as a six-figure income household in certain regions of California is considered low income because of cost of living differentiations.

Department of Health and Human Services, National Institutes of Health (NIH)

NIH

- **Recommendation:** UC supports \$44.684 billion for NIH.

UC Request	FY 2020 Enacted	FY 2021 President’s Budget Request
\$44.684 billion	\$41.684 billion	\$38 billion

UC supports \$44.684 billion for NIH, which is needed to drive U.S. biomedical research progress with breakthrough discoveries in cancer, the brain and precision medicine, and to achieve life-saving cures and treatments for chronic illnesses and life-threatening diseases. This request includes support for the highest levels of funding for the multi-year 21st Century Cures Act, in addition to increased annual NIH funding. NIH research funding enables California’s biomedical research industry to remain a global innovation leader and supports hundreds of thousands of jobs and economic growth in California and across the nation. In FY 2019, UC researchers successfully competed for more than \$2.23 billion in NIH awards in support of biomedical research and training, receiving nearly half of the amount awarded to all California research institutions, and about two-and-one-half times as much NIH funding as the next highest institution.

UC also supports multidisciplinary public health research to better understand the nature, causes and consequences of violence, unintended injury and death involving firearms.

UC urges NIH to fund cannabis-related research. Across the UC System, researchers on multiple campuses are studying the public health and safety effects of cannabis use. The current classification of cannabis as a Schedule I drug is an impediment to biomedical research and poses a significant barrier for researchers wanting to conduct research. UC urges changes in federal law that will facilitate researchers being able to both cultivate and study the cannabis sold in dispensaries within the states that have legalized cannabis consumption.

Department of Health and Human Services, Health Resources and Services Administration (HRSA)

Title VII Health Professions Training

- **Recommendation:** UC supports \$512 million for Title VII Health Professions Training programs.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$512 million	\$424.5 million	\$167.3 million

UC supports \$512 million for the HRSA Title VII Health Professions Training programs.

Title VII programs provide grants to medical schools for primary care education and training activities, including residency, internships and other accredited professional training programs in family medicine, general internal medicine and pediatrics, and helps UC's medical school graduates defray their educational debt.

The Title VII medical education training and loan programs are critical sources of financial support for UC students and physician faculty, as they are designed to prepare providers practicing medicine in interdisciplinary settings to meet the needs of special and underserved populations, as well as increase minority representation in California's health care workforce. Programs under Title VII that reduce medical student debt in exchange for practicing in underserved areas are critical incentives that encourage new physicians to establish roots where their medical services are most needed. For example, data from HRSA shows that as many as 48 percent of National Health Service Corps (NHSC) recipients remain in the medical practice in which they fulfilled their Title VII funded work after their NHSC obligation is fulfilled

Title VIII Nursing Workforce Development

- **Recommendation:** UC supports \$278 million for Title VIII Nursing Workforce Development programs.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$278 million	\$259.9 million	\$83.1 million

UC supports \$278 million for the HRSA Title VIII Nursing Workforce Development programs,

which provide training for entry-level and advanced degree nurses to improve access to and quality of health care in underserved areas. Under these programs, nurses working in designated shortage areas have access to two student loan repayment programs. Primary care nurse practitioners, certified nurse midwives and psychiatric nurse specialists are eligible to apply to the National Health Service Corps Loan Repayment Program, while registered nurses, including nurse practitioners, are eligible to apply to the NURSE Corps Loan Repayment Program. Title VIII programs support more than 1,500 nursing students who study in nursing programs at four UC campuses (Davis, Irvine, Los Angeles and San Francisco).

Department of Health and Human Services, Centers for Disease Control and Prevention (CDC)

CDC

- **Recommendation:** UC supports \$8.3 billion in program level funding for the CDC.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$8.3 billion	\$7.974 billion	\$7.001 billion

UC supports \$8.3 billion in program level support for the CDC. UC's campuses are at the forefront of public health, and robust investment is needed to fulfill UC's tripartite mission of training the next generation of clinicians (including experts in public health), innovating biomedical discoveries and delivering high-quality patient care. With five academic medical centers that are serving on the frontlines of emerging global threats like COVID-19 (coronavirus), additional investment in the CDC to provide cutting-edge diagnostic tools and other resources to our institutions is critical for achieving national preparedness. In addition to funds received directly from CDC, the university also receives sub-awards from non-federal sponsors with CDC contracts.

UC also supports multidisciplinary public health research to better understand the nature, causes and consequences of violence, unintended injury and death involving firearms

National Institute for Occupational Safety and Health (NIOSH)

- **Recommendation:** UC supports \$354.8 million for NIOSH.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$354.8 million	\$ 342.8 million	\$190 million

UC supports \$354.8 million for NIOSH, which is the primary federal agency dedicated to occupational injury prevention and control. The programs funded by NIOSH include scientific research, training and education activities that support efforts to address occupational health and safety needs and improve working conditions. The president's budget request, which proposes a \$152.8 million cut to NIOSH over the FY 2020 enacted funding level, would severely reduce funding for critical workplace injury prevention and control efforts and eliminate funding for extramural research programs, including the NIOSH Education and Research Centers and the NIOSH Agriculture, Fisheries and Forestry Program. The proposed funding cut would also limit the effectiveness of the National Occupational Research Agenda.

NIOSH Education and Research Centers (ERCs)

- **Recommendation:** UC supports \$32 million for NIOSH ERCs.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$32 million	\$30 million	\$0

UC supports \$32 million for the NIOSH ERCs, which provide academic and research training programs in the occupational safety and health disciplines, as well as education and outreach programs to prevent workplace related injury and disease. UC operates two of the nation's 18 ERCs – the northern California ERC based at UCSF and UC Berkeley, and the southern California ERC based at UCLA and UC Irvine. The president's budget request would eliminate funding for extramural programs at NIOSH resulting in the elimination of the ERC program, which focuses on preventing workplace injuries.

NIOSH Agriculture, Forestry and Fishing (AFF) Program

- **Recommendation:** UC supports \$28.5 million for NIOSH AFF program.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$28.5 million	\$26.5 million	\$0

UC supports \$28.5 million for the NIOSH AFF program. The AFF program is the only substantive federal effort designed to prevent workplace injuries in the agricultural sector. UC operates one of nine regional NIOSH AFF Centers, the Center for Agricultural Disease and Injury Research, Education and Prevention located at UC Davis.

NIOSH Total Worker Health (TWH) Program

UC supports robust funding for the NIOSH TWH program, which funds several Total Worker Health Centers of Excellence throughout the United States. This program focuses on conducting research into occupational diseases and the prevention of workplace injuries. Additional funding provided to the TWH program could provide additional opportunities for universities, such as UC, to establish a center.

Department of Health and Human Services, Agency for Healthcare Research and Quality (AHRQ)

AHRQ

- **Recommendation:** UC supports \$338 million for AHRQ.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$471 million	\$338 million	\$257 million

UC supports \$471 million in discretionary funding for AHRQ, the singular federally-funded agency charged with improving the safety and quality of the U.S. health care delivery system. UC is a strong supporter of AHRQ funding along with the mandatorily funded Patient Centered Outcomes Research Institute's (PCORI) Patient Centered Outcomes Research (PCOR) Trust Fund. Together, PCORI and AHRQ promote advances in health care safety and quality that must be maintained. UC is a beneficiary of AHRQ grants. For example, AHRQ awarded funding to the UCLA Center for Health Policy Research to conduct the California Health Interview Survey (CHIS), the nation's largest state health survey and a critical source of data on Californians. CHIS provides representative data on all 58 counties in California, including a detailed picture of health and the health care needs of California's large and diverse population.

Instead of maintaining AHRQ as a standalone agency, the president’s budget request proposes to integrate AHRQ’s research into NIH as the National Institute for Research on Safety and Quality.

SUBCOMMITTEE ON STATE, FOREIGN OPERATIONS AND RELATED PROGRAMS

U.S. Agency for International Development (USAID)

Global Health Security Program

- **Recommendation:** UC supports \$150 million for the Global Health Security Program.

UC Request	FY 2020 Enacted	FY 2021 President’s Budget Request
\$150 million	\$150 million	\$115 million

Higher Education Institutional Capacity Development Partnerships

- **Recommendation:** UC supports \$40 million for Higher Education Institutional Capacity Development Partnerships.

UC Request	FY 2020 Enacted	FY 2021 President’s Budget Request
\$40 million	\$35 million	N/A

Feed the Future Food Security Innovation Labs

- **Recommendation:** UC supports \$60 million for the Feed the Future Food Security Innovation Labs.

UC Request	FY 2020 Enacted	FY 2021 President’s Budget Request
\$60 million	\$55 million	N/A

UC supports \$150 million for Global Health Security Programs; \$40 million for Higher Education Institutional Capacity Development Partnerships; and \$60 million for the Feed the Future Food Security Innovation Labs. UC also supports reinstating the PREDICT zoonotic disease surveillance and forecasting program, which since 2009, has led to the discovery of over 1000 new viruses, including coronaviruses similar to the COVID-19 virus causing the current outbreak. These USAID-university partnerships bring unparalleled research capabilities to the U.S. government’s global development and food security initiatives. UC leads six of the 24 Innovation Labs, a network of U.S. colleges and universities that partner with institutions in developing countries to conduct research and training in order to develop agricultural practices and technologies to improve safe and sustainable food production.

SUBCOMMITTEE ON TRANSPORTATION, HOUSING AND URBAN DEVELOPMENT, AND RELATED AGENCIES

Department of Transportation

University Transportation Center Program

- **Recommendation:** UC supports \$77.5 million for the University Transportation Center.

UC Request	FY 2020 Enacted	FY 2021 President's Budget Request
\$77.5 million	\$67.5 million	\$77.5 million

UC supports \$77.5 million for the University Transportation Center Program. While the Fixing America's Surface Transportation Act authorized \$77.5 million, the funding is insufficient. Additional funding should be appropriated to establish additional centers to promote better transportation, cultivate innovation, and address workforce issues that our transportation industry face.