

## **IRVINE CAMPUS**

### **2020-21 and 2021-22 Project Summaries**

#### **Capital Need with Funding**

##### **EDUCATION AND GENERAL PROJECTS**

###### **2020-21 Small Capital Improvements Program**

- \$6M
- Fund source(s): External Financing
- Provides funding for UCI's annual Small Capital Improvement Program, for new construction or renovation estimated to cost up to approximately \$1 million to accommodate new faculty hires, improve instructional space, or correct critical life-safety deficiencies
- 2020-21 projects include laboratory and office renovations to meet the needs of new faculty, classroom and class lab renovations to accommodate active learning and distance learning methodologies, and safety-related upgrades in research buildings

###### **Engineering Student Innovation Factory**

- \$30M
- Fund source(s): Gift Funds
- Provides approximately 35,000 ASF/55,000 GSF of open-access, light fabrication laboratory space for Engineering undergraduate students to design, build, and test required individual and team projects
- Existing laboratories are overcrowded, and as a result, students have spread out into areas not meant for this type of activity
- Supports campus goal to provide new facilities in support of instruction and research
- Consistent with the goals of the UCI Climate Action Plan, this project will strive to minimize greenhouse gas emissions by reducing energy demand and replacing fossil-fuel-based energy with low carbon energy; energy demand will be minimized by designing the building to outperform California Energy code by 50 percent

###### **Facilities Management/Campus Services Relocation**

- \$70M
- Fund source(s): External Financing
- Relocates and replaces over 100,000 ASF of space at UCI's North Campus, much of which is dilapidated space built in 1965 as staging space for construction of the main campus
- Estimated 84,000 ASF/102,000 GSF
- Allows for North Campus Redevelopment project by relocating Facilities Management and other campus support services
- Supports campus goal to renovate or replace obsolete facilities
- Will meet minimum of LEED™ Gold, with a bid alternate for Platinum, and consistent with the goals of the UCI Climate Action Plan, this project will strive to minimize greenhouse gas emissions by reducing energy demand and replacing fossil-fuel-based energy with low carbon energy; energy demand will be minimized by designing the building to outperform California Energy code by 50 percent

###### **Institute & Museum for California Art**

- \$70M
- Fund source(s): Gift Funding, Campus Funding
- Constructs 25,000 ASF/45,000 GSF for an art museum to house UCI's Institute & Museum for California Art
- Provides gallery space and associated support space and administrative office and support space to provide a showcase for UCI's art collection, as well as a center for scholarly discourse and study of California art

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- Supports campus goal to provide support facilities to accommodate all aspects of campus life
- Consistent with the goals of the UCI Climate Action Plan this project will strive to minimize greenhouse gas emissions by reducing energy demand and replacing fossil fuel-based energy with low-carbon energy; energy demand will be minimized by designing the building to outperform California Energy code by 50 percent
- Project will move forward when sufficient gift funding has been raised

#### **NatureScape/Botanical Garden**

- \$70M
- Fund source(s): Gift Funding
- Optimizes the use of UCI's open space areas through physical and land management improvements to serve teaching, research, community engagement, wellness, arts, and sustainability needs
- Projects would be implemented in phases based on funding availability
- Proposed elements would include:
  - Development of a botanical garden centered in Aldrich Park including themed plant collections, interpretive learning programs, event spaces, and pedestrian circulation improvements
  - Pedestrian and bicycle trail system improvements linking campus open space areas, including the North Campus and San Joaquin Marsh
  - Creation of field research sites to support interdisciplinary research
  - Establish outdoor learning spaces to support class instruction and field visits
  - Water resource improvements to address campuswide stormwater runoff, water quality, and watershed requirements and goals
  - Engage community partners to build connectivity between UCI NatureScape resources and regional systems and programs

#### **North Campus Gateway Site Improvements**

- \$25M
- Fund source(s): Campus Funding
- Provides site improvements to the North Campus eastern planning sector following demolition of obsolete facilities that could include buildings, roadways, and parking areas
- Site improvements may include:
  - A gateway architectural element near the corner of Jamboree Rd and Campus Dr
  - New access roadway or realignment of existing roadways
  - Reconfiguration of parking areas
  - Landscaping to support Naturescape vision
  - Joint use trails to support future connectivity to campus core and regional linkages
  - Support vehicle access to San Joaquin Marsh Reserve
  - San Joaquin Marsh support facilities
  - Field research plots

#### **Office Property Acquisition**

- \$12.2M
- Fund source(s): State Eligible
- Purchase of property near UCI's North Campus to provide additional office space
- Could also provide space to replace offices slated for demolition as a result of the redevelopment of the North Campus
- Future renovation or demolition of existing structures and construction of higher density office space would be proposed as a separate project

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- Project may be combined with the Property Acquisition for Facilities Management and Fleet Services project

#### **Property Acquisition for Facilities Management and Fleet Services**

- \$25M
- Fund source(s): Campus Funding
- Purchase of property to accommodate UCI some Facilities Management/Fleet Services activities
- Redevelopment of the North Campus necessitates relocation of existing facilities
- Depending on the property identified, this project may be combined with the Office Property Acquisition project

#### **Student Success Building**

- \$116M
- Fund source(s): State Funding, Gift Funding, Campus Funding, External Financing
- Constructs 79,200 ASF/116,500 GSF to address the need for space for additional student support functions
- Provides space for functions such as disability services, career center, counseling center, health education, student success initiatives, and other student and instructional support activities
- Creates campus resources that enable students to successfully achieve their academic goals
- Supports campus goal to provide facilities to accommodate all aspects of campus life
- Will meet minimum of LEED™ Gold, with a bid alternate for Platinum, and consistent with the goals of the UCI Climate Action Plan this project will strive to minimize greenhouse gas emissions by reducing energy demand and replacing fossil fuel based energy with low carbon energy

#### **Quantum Science Building**

- \$70M
- Fund source(s): Gift Funding
- Constructs 37,800 ASF/60,000 GSF to house the Eddleman Quantum Institute
- Provides dry research laboratory space, instructional space, and conference space to accommodate interdisciplinary research in chemistry, physics, and quantum-material science and become the global model for advancing quantum science
- Supports campus goal to provide new facilities in support of instruction and research
- Bid documents will require LEED™ Gold, with an alternate for Platinum
- Consistent with the goals of the UCI Climate Action Plan this project will strive to minimize greenhouse gas emissions by reducing energy demand and replacing fossil-fuel-based energy with low carbon energy; energy demand will be minimized by designing the building to outperform California Energy code by 50 percent

#### **Research Building Acquisition**

- \$10M
- Fund source(s): Campus Funding
- Buys out the remaining 10 years of a 40-year ground lease on a campus research building that was constructed as a public-private partnership with a private research company
- Provides 27,400 ASF/45,700 GSF of additional wet laboratory space to support research programs in the School of Medicine
- Accommodates new faculty and program development
- Supports campus goal to provide new facilities in support of instruction and research

# **IRVINE CAMPUS**

## **2020-21 and 2021-22 Project Summaries**

### **Capital Projects \$1M to \$5M (E&G)**

- \$90M
- Fund source(s): Campus Funding
- Includes utility and infrastructure improvements, technology upgrades, renovations of classrooms, laboratories, and administrative, and performance facilities Funding is for 2019-20 through 2024-25

### **AUXILIARY PROJECTS**

#### **ARC Field Expansion**

- \$8M
- Fund source(s): NSE
- Constructs ten acres of turf fields with bleachers, lights and a restroom building to support various club sports
- May also include the construction of a short golf course facility or an additional practice field
- Addresses the need for expansion and improvement of athletics facilities
- Project will move forward when sufficient gift funding has been raised

#### **Athletics Facilities Improvements**

- \$55M
- Fund source(s): Gift Funding
- Renovates 45,000 ASF/60,000 GSF of Crawford Hall athletics building to reconfigure Carlos Prietto Sports Medicine room, reconfigure Crawford stage and balcony, and add air conditioning to the building
- Expands Cicerone Field at Anteater Ballpark by providing a press box and concession building, enlarging spectator seating, and creating an identifiable ticket terrace entrance
- Creates a shade structure over the spectator stands at the Aquatics Stadium, creates a separate, identifiable entry, and a new restroom/ticketing area
- Renovates Anteater Stadium, including spectator seating, restrooms, team locker rooms, meeting rooms, and concession areas
- Reconfigures Vista Field and surrounding unimproved areas to create an artificial-turf training facility
- or expansion and improvement of athletics facilities, and consistent with the University of California Policy on Sustainable Practices, the Crawford Hall renovation will achieve a LEED™–ID+C Certified rating and register with the utility's Savings by Design program
- Project will move forward when sufficient gift funding has been raised

#### **Health Sciences Parking Garage**

- \$70M
- Fund source(s): External Financing
- Constructs a parking structure of up to 2,000 spaces and, 650,000 GSF in the Health Sciences district of the campus
- Addresses the growing demand for parking in this developing area
- Consistent with the goals of the UCI Climate Action Plan this project will strive to minimize greenhouse gas emissions by reducing energy demand and replacing fossil-fuel-based energy with low carbon energy ; energy demand will be minimized by designing the building to outperform California Energy code by 50 percent

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#### University Hills Area 12

- \$TBD
- Fund source(s): P3
- Amends the ground lease between the Regents and the Irvine Campus Housing Authority to add about 8.3 acres of campus land to accommodate the development of additional for-sale housing for faculty and staff
- Demolishes 100 faculty/staff apartment units built in 1982 and constructs up to 150 for-sale homes in University Hills, UCI's academic community-in-residence
- Supports UCI faculty/staff recruitment and retention efforts

#### Shellmaker Island Boathouse Replacement

- \$11M
- Fund source(s): NSE
- Constructs an 8,500 ASF/11,300 GSF new boathouse on Shellmaker Island (on land leased from the Department of Fish and Game) to replace the existing 40-year-old prefabricated structure, and addresses the need to accommodate growth in campus rowing programs and to provide facilities to accommodate recreational paddle-boarding and kayaking
- Supports campus goal to provide support facilities to accommodate all aspects of campus life and provides the university community with access to the ocean
- Consistent with the goals of the UCI Climate Action Plan this project will strive to minimize greenhouse gas emissions by reducing energy demand and replacing fossil-fuel-based energy with low carbon energy ; energy demand will be minimized by designing the building to outperform California Energy code by 50 percent

## EDUCATION AND HEALTH

#### Medical Education Building Renovations

- \$18M
- Fund source(s): Campus Funding
- Renovates 26,505 ASF/30,409 GSF in the Medical Education Building, including the basement, third floor, and fourth-floor shell space
- Renovates the basement and third floor to replace outmoded teaching labs and classrooms with state-of-the-art facilities
- Builds out the fourth-floor shell space to provide additional research, office, and student support space to address space shortages in the School of Medicine
- Supports campus goal to provide new and renovated facilities for instruction and research, and consistent with the University of California Policy on Sustainable Practices, this renovation will achieve a LEEDTM – ID+C Certified rating and register with the utility's Savings by Design program

#### Research Building Acquisition

- \$10M
- Fund source(s): Campus Funding
- Buys out the remaining 10 years of a 40-year ground lease on a campus research building that was constructed as a public-private partnership with a private research company
- Provides 27,400 ASF/45,700 GSF of additional wet laboratory space to support research programs in the School of Medicine
- Accommodates new faculty and program development
- Supports campus goal to provide new facilities in support of instruction and research

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## **2020-21 and 2021-22 Project Summaries**

### **Capital Need with Funding Not Identified**

#### **EDUCATION AND GENERAL PROJECTS**

##### **Aldrich Hall Seismic Improvements and Renewal**

- \$32M
- Fund source(s): State Eligible
- Provides seismic upgrades to Social Sciences Lecture Hall as required by Tier 2 evaluation currently underway
- Addresses deferred maintenance needs such as replacement of HVAC controls and system components, fire alarms, and roof

##### **Central Plant and Utility Distribution Renewal Phase 1**

- \$15M
- Fund source(s): State Eligible
- Addresses the aging of the campus's existing high-temperature hot water, chilled water, co-generation systems, and associated distribution infrastructure
- Responds to life-safety, environmental, and cost-efficiency issues posed by the continued use of obsolete equipment
- Replaces existing Central Plant chillers that are approximately 25 years old and reaching the end of their useful lives
- Supports campus goal to upgrade and expand infrastructure to support current and planned development
- Supports the goals of the UCI Climate Action Plan by replacing obsolete chillers with modern, energy-efficient equipment

##### **Hazardous Materials Abatement**

- \$30M
- Fund source(s): State Eligible
- Supplements campus hazardous materials plan that only targets spot abatement associated with renovation projects
- Addresses large-scale abatement needs such as piping replacement, floor, and roof mastic removal, fireproofing and insulation, and building and exterior envelopes that limit the ability to complete deferred maintenance projects

##### **Engineering Renovations**

- \$25M
- Fund source(s): State Eligible
- Addresses deficiencies in older Engineering buildings that can no longer support modern instruction and research activities due to deterioration of building systems and obsolete technologies
- Potential projects include Engineering Tower, Engineering Laboratory Facility, and Engineering Gateway
- Provides renovations to facilities to support modern research and teaching methods, and accommodates new faculty and program development
- Supports campus goal to renovate or replace obsolete facilities Consistent with the goals of the UCI Climate Action Plan this renovation will outperform the California Building Code by 20 percent

##### **Humanities Hall Seismic Improvements**

- \$39M
- Fund source(s): State Eligible

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- Provides seismic upgrades to Humanities Hall and the bridge that connects Humanities Hall and Krieger Hall
- Addresses deferred maintenance needs such as replacement of HVAC controls and system components, fire alarms, plumbing system components, etc

#### **Law Building**

- \$233M
- Fund source(s): State Eligible
- Constructs 143,000 ASF/220,000 GSF building to address the need to provide permanent, consolidated instruction and research space for the School of Law and replace temporary assignments made at the School's inception
- Provides classroom and instructional laboratories, law library, faculty and administrative office space, and other spaces required for a fully accredited law school
- Releases current temporary assignments in three buildings totaling approximately 66,000 ASF for reassignment to address other campus priorities such as bringing administrative units back from off-campus leased space
- Supports campus goal to provide new facilities in support of instruction and research
- Bid documents will require LEED™ Gold, with an alternate for Platinum Consistent with the goals of the UCI Climate Action Plan this project will strive to minimize greenhouse gas emissions by reducing energy demand and replacing fossil-fuel-based energy with low carbon energy; energy demand will be minimized by designing the building to outperform California Energy code by 50 percent

#### **Regional Water Quality Improvements**

- \$10M
- Fund source(s): State Eligible
- Constructs, in collaboration with regional partners, a large-scale water quality and water supply infrastructure project that would capture, treat, and reuse runoff from the UCI campus and other areas in the regional watershed
- Constructs improvements to collect runoff, remove pollutants from the runoff through constructed wetlands and natural bio-filtration systems, and deliver the treated water to benefit the sensitive habitat in the San Joaquin Marsh wetlands
- The project would result in significant regional water quality, environmental, recreational, and public education and engagement benefits
- Regional partners could include UCI, County of Orange, OC Parks, City of Irvine, and Irvine Ranch Water District

#### **Social Sciences Lecture Hall Seismic Improvements**

- \$3,577K
- Fund source(s): State Funding, Campus Funding
- Provides seismic upgrades to Social Sciences Lecture Hall as required by Tier 2 evaluation currently underway
- Addresses deferred maintenance needs such as replacement of HVAC controls and system components, fire alarms, and roof

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#### **Capital Projects \$5M to \$10M (E&G)**

- \$90M
- Fund source(s): State Eligible
- Includes utility and infrastructure improvements, technology upgrades, renovations of classrooms, laboratories, and administrative, and athletic and performance facilities

#### **Capital Renewal/Deferred Maintenance (E&G)**

- \$175, 172K
- Fund source(s): State Eligible
- Includes selective renewal or replacement of campus utility infrastructure, building systems, equipment, roofs, walls, and windows

#### **Environmental and Safety Improvements**

- \$15M
- Fund source(s): State Eligible
- Includes building and landscape/hardscape alterations or improvements required by State and Federal regulatory agencies such as Cal-OSHA, the Environmental Protection Agency, the Air Quality Management District, the Regional Water Quality Board, etc
- For example, Cal-OSHA is requiring that all buildings have roof davits and pedestals installed to facilitate window washing

#### **Energy-Saving Projects**

- \$50M
- Fund source(s): State Eligible
- Includes installation of advanced lighting controls and LED lighting upgrades and monitoring-based commissioning in buildings campuswide, and retrofit of laboratories to Smart Labs

#### **Landscape/Hardscape Renewal & Maintenance**

- \$71M
- Fund source(s): State Eligible
- Includes renewal or replacement of hardscape such as paving systems, roadways, pathways, sidewalks, etc; landscape infrastructure such as irrigation systems and erosion control; and other, non-recurring, exterior needs, such as accessibility barrier removal, roadway and plaza improvements, etc

#### **Non-Recurring Building Needs**

- \$76M
- Fund source(s): State Eligible
- Includes accessibility improvements and building improvements such as fire sprinklers, upgrades to fire-rated wall separations; installing battery-backup exit signs and egress lighting, hazardous material abatement, repair of deteriorated concrete building exteriors, etc

#### **Campus Security Improvements**

- \$30M
- Fund source(s): State Eligible
- Includes new keycard system, emergency phone upgrades, surveillance systems, etc



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### **AUXILIARY PROJECTS**

#### **Capital Projects \$5M to \$10M (AUX)**

- \$60M
- Fund source(s): NS
- Includes renovations of classrooms, administrative, student support, athletic facilities, housing, and food facilities

#### **Capital Renewal/Deferred Maintenance (AUX)**

- \$156,100K
- Fund source(s): NS
- Includes selective renewal or replacement of building systems, equipment, roofs, walls, and windows

### **EDUCATION – HEALTH SCIENCES**

#### **Seismic Replacement Laboratory Building**

- \$231M
- Fund source(s): State Eligible
- 120,000 ASF/200,000 GSF
- Provides wet research laboratory space for UCI's College of Health Sciences, which includes the School of Nursing Science, the Program in Public Health, the Department of Pharmaceutical Sciences, and the School of Medicine
- Addresses the severe shortage of wet laboratory space available to these units, which is negatively impacting faculty recruitment and retention
- Replaces over 100,000 GSF of obsolete and dilapidated research facilities that can no longer support modern laboratory research, including Med Surge 1 and 2, Air Pollution Lab 1 and 2, Faculty Research Facility, and Psychiatry Trailer Also replaces 22,000 GSF of leased laboratory space
- Supports campus goals to provide new facilities in support of instruction and research, and to renovate or replace obsolete facilities
- Consistent with the goals of the UCI Climate Action Plan this project will strive to minimize greenhouse gas emissions by reducing energy demand and replacing fossil fuel-based energy with low carbon energy; energy demand will be minimized by designing the building to outperform California Energy code by 50%