

DAVIS CAMPUS

2020-21 and 2021-22 Project Summaries

Capital Need with Funding

EDUCATION AND GENERAL PROJECTS

Computational and Data Sciences

- \$50M
- Fund sources: Gift Fund
- 30,000 ASF / 47,000 GSF
- Constructs new facility to be located in the Engineering Sciences District.
- Serves the College of Engineering and consolidates the Department of Computer Sciences, which is currently located in Kemper Hall and the Academic Surge Building.
- Includes research and administrative office space.
- High priority development initiative for the College of Engineering to address space constraints that have forced the unconnected location of related programs and support growth in the College.

Engineering Student Design Center

- \$22.178M
- Fund sources: Gift Fund
- Renovates approximately 10,760 square feet of the existing building and constructs an expansion to the north of approximately 11,850 square feet
- Renovates and expands Bainer Hall to provide instructional and fabrication lab and support space for the College of Engineering.
- The Engineering Fabrication Lab in Bainer Hall, which supports a number of required and elective courses, is currently undersized and oversubscribed. This space also supports nationally recognized competition teams, senior capstone projects, and other student learning enhancement.
- A new Engineering Student Startup Center will engage engineering and business students in an integrated and collaborative product design and business development process.
- Specialized classroom space will accommodate Computer-aided Design (CAD) and Computer-aided Manufacturing (CAM).
- Anticipated to be a gift-funded project, however, other interim funding options may be used while gift funds are pledged and realized.

Geotechnical Centrifuge Facility

- \$50M
- Fund source(s): Federal Grant
- 30,000 ASF / 45,000 GSF
- Constructs new world class centrifuge modeling facility to house three new centrifuges with ancillary equipment; renovation of existing geotech lab and removal of antiquated equipment from existing facility
- Delivers research, office, and storage space uses to support program. Integrates geotechnical laboratories for synergy across research activities

Laboratory for Energy-related Health Research (LEHR) Remediation

- \$15M
- Fund source(s): External Finance
- NA ASF / NA GSF
- Component of ongoing efforts to mitigate environmental impacts from the Old Campus landfills and associated waste units on the south campus
- In 1994, the United State Environmental Protection Agency (EPA) placed 25 acres on the south campus on the National Priorities List as a Superfund Site. The University is bound under Federal Administrative

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Order on Consent to clean-up the Site in accordance with the requirements of state and federal laws and regulations. Project may require relocation of existing uses on remediation site.

- Completes EPA-selected “Alternative #6” for addressing solid waste and groundwater remediation. Project timeline aligns with anticipated EPA report

Library Renovations

- \$50M
- Fund source(s): Gift Funds
- 46,500 ASF/66,500 GSF
- Renovates outdated University Library Space to meet modern student and faculty needs.
- Planning underway to determine scope of improvements.
- Integrates information resources and services to serve the library of the 21st Century. Increases collaboration and meeting space.
- Renovation projects may be phased to provide incremental improvement based on availability of funding. Phased projects may address all needs in a portion of the facility or most critical needs throughout the building. This budget may not achieve all necessary improvements.
- Anticipated to be a development effort; however, campus may deploy resources to develop momentum.

Multi-Disciplinary Research

- \$100M
- Fund source(s): External Funds
- TBD ASF / TBD GSF
- Supports UC Davis' commitment to STEM; includes support for research activities.
- Supports programs that involve multiple departments.
- Located proximate to other research and student programs and services.
- Includes technical core (imaging and characterization suites) and collaboration core (Lecture, seminar, and conference space), laboratories, office space for interdisciplinary projects, and administrative and other support space.

Wildlife Teaching Center

- \$50M
- Fund source(s): Gift Funds
- TBD ASF / TBD GSF
- Supports the outreach, research, and teaching goals of the UC Davis Museum of Wildlife and Fish Biology.
- Funding to be obtained via gift campaign.
- Project may be implemented in phases as funds are raised. Project will not advance if gifts are not available to cover project costs.

Social Sciences and Humanities Seismic Improvements

- \$33.4M
- Fund source(s): General Funds (State and AB94)
- 84,742 ASF / 172,655 GSF
- A component of the campus's AB94 funded proposal.
- Relocates various occupants internally to accommodate seismic work.
- Renovates corridors and restrooms.
- Improves seismic performance and renews the facility.
- Addresses critical deferred maintenance issues
- Improves accessibility issues, fire/life-safety systems, and mechanical, electrical, and plumbing systems as applicable.

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Sprocket Seismic Improvements

- \$12M
- Fund source(s): General Funds (State and AB94)
- 13,779 ASF / 19,829 GSF
- A component of the campus's AB 94 funded proposal.
- Relocates various occupants to other campus buildings to improve adjacencies.
- Renovates vacated space for research labs to be relocated from other campus buildings.
- Improves seismic performance and renews the facility.
- Addresses critical deferred maintenance issues.
- Improves accessibility issues, fire/life-safety systems, and mechanical, electrical, and plumbing systems as applicable.

Voorhies Seismic Improvements

- \$24.2M
- Fund source(s): General Funds (State and AB94)
- 13,779 ASF / 19,829 GSF
- A component of the campus's AB 94 funding proposal.
- Relocates various occupants internally to accommodate seismic work.
- Improves seismic performance and renews the facility.
- Addresses critical deferred maintenance issues.
- Improves accessibility issues, fire/life-safety systems, and mechanical, electrical, and plumbing systems as applicable.

Young Hall Seismic Improvements

- \$23.8M
- Fund source(s): General Funds (State and AB94)
- 53,685 ASF / 90,058 GSF
- A component of the campus's AB 94 funding proposal.
- Improves seismic performance, replaces obsolete building systems, and renews the facility.
- Renovates vacated space to teaching labs and teaching assistant support space. Also renovates existing teaching labs and classrooms, corridors, restrooms, and the thirds floor.
- Builds new animal support facility at Health Sciences District
- Improves accessibility issues, fire/life-safety systems, and mechanical, electrical, and plumbing systems as applicable.

Jungerman Seismic Improvements

- \$12.2M
- Fund source(s): General Funds (State and AB94)
- 22,126 ASF / 32,699 GSF
- A component of the campus's AB 94 funding proposal.
- Improves seismic performance.
- Improves accessibility issues, fire/life-safety systems, and mechanical, electrical, and plumbing systems as applicable.

Mann Lab Seismic Improvements

- \$5.8M
- Fund source(s): General Funds (State and AB94), Campus Funds

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- 11,460 ASF / 17,182 GSF
- A component of the campus's AB 94 funding proposal.
- Improves seismic performance, replaces obsolete building systems, and renews the facility.
- Improves accessibility issues, fire/life-safety systems, and mechanical, electrical, and plumbing systems as applicable.

Winery Expansion

- \$25M
- Fund source(s): Gift Funds
- 11,000 ASF/17,000 GSF
- Gift-funded expansion of the existing campus winery facilities.
- Supports innovative research and sustainable practices.

Animal Sciences Teaching Facility

- \$10M
- Fund source(s): External Funds
- 5,000 ASF/6,000 GSF

Research and Teaching Gift Funded Initiative

- \$50M
- Fund source(s): Gift Funds
- A dynamic, sophisticated new facility to enable multi-disciplinary discoveries that addresses the big ideas and global grand challenges. Integration of flexible space in the innovation zone to develop new human-technology partnerships and augment human performance. Pivotal facility for research on and solutions for machine learning and artificial intelligence in support of the advancement of plant science.

Hutchison Drive and State Route 113 Improvements

- \$12.3M
- Fund source(s): External Funds
- Provides transportation improvements to support the West Village Housing Expansion, delivers mitigation measures associated with the 2018 Long Range Development Plan (LRDP) Environmental Impact Report (EIR). The project improves bicycle and pedestrian safety at the Hutchison Drive—State Route 113 interchange and accommodates the additional vehicular traffic associated with the West Village expansion. The interchange is owned and operated by Caltrans therefore the project improvements and development procedures include Caltrans review. The Hutchison Drive and State Route 113 interchange project delivers new ramps, traffic signals and improves bicycle and pedestrian circulation.

Central Campus 12KV Electrical Distributions Improvements

- \$28,230M
- Fund source(s): External Funds
- Improves the campus electrical infrastructure
- Improves reliability and redundancy of electrical distribution

Capital Projects \$5M to \$10M

- \$65M
- Fund source(s): Campus Funds, External Funds
- NA ASF / NA GSF—Various Projects
- Major capital projects budgeted at a cost of less than \$10M.

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- Includes renovations, new construction, equipment installation, infrastructure, and other types of projects. Projects address near-term needs and many are in support of new faculty and research initiatives.
- Specific projects anticipated to advance in 2020-21 include C.N. Gorman Museum Relocation, Kemper Courtyard, PSEL Renovations, and the Buildout of Shelled Space - TLC.
- Projects are under study to prioritize those with the highest value for advancing the campus mission projects which include, but are not limited to, the following:
 - Neuroscience Renovations
 - Seismic Improvements
 - Welcome Center
 - Chemistry Renovations
 - Engineering Renovations
 - HARCS Renovations
 - CAES Renovations
 - Bainer Renovations
 - Kemper Hall Renovations
 - Roessler Hall Renovations
 - Various Building Demolitions
 - Biological Sciences Renovations
 - Social Sciences and Humanities Renovations
 - School of Education Renovations
 - School of Law Renovations
 - School of Veterinary Medicine Renovations
 - Cowell Hall Renovations
 - Academic Surge Renovations
 - Briggs Hall Renovations
 - Hutchison Renovations
 - Meyer Hall Renovations
 - Animal Sciences Teaching Facility

Deferred Maintenance

- \$30M
- Fund source(s): External Funds
- Addresses high priority deferred maintenance across the campus that improves quality of campus space, promotes stewardship of existing facilities, and reinvests to repair and modernize assets.
- Opportunities to coordinate deferred maintenance and capital projects will be coordinated where appropriate.

Seismic (Corrections) Improvements

- \$10M
- Fund source(s): Campus Funds
- TBD ASF/TBD GSF
- Improves seismic performance for select campus structures.
- Will include the buildings based on priority, timing, types of occupancy, other project schedules, and critical functional needs.
- Anticipated identification of specific structures pending outcome of current structural and risk analysis under current methodologies and code impacts due to renovation projects.

Infrastructure Improvements

- \$25M
- Fund source(s): External Funds
- NA ASF/GSF
- Addresses the highest priority campus need for infrastructure renewal and/or expansion to support growth. Priorities will be driven by capacity analysis and likelihood for potential failure with the intent of using limited resources to support the core teaching and research mission and related ancillary functions to the greatest extent possible.
- Not all projects will be moved forward within this budget.
- High priorities for 2020-21: addressing the campus's aging steam infrastructure, boilers, and heat generation at the main Central Plant and electrical improvements.

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- Campus is conducting assessments to prioritize projects with the highest value for advancing the campus mission and address the most critical infrastructure needs.
- Campus infrastructure priorities may evolve over the six-year implementation period of this plan, and the Campus will continue to re-evaluate priority needs. It is anticipated that this list will grow over time.
- Current potential infrastructure renewal projects include, but are not limited to, the following:

Smart Lighting Initiative (future phases)	Utility Water Well Replacement
Utility Water Well Pipe Improvements	Boiler #1 and #2 Replacement
Electrical Improvements	Steam System Renewal
Campus Wastewater Treatment Plant Improvement	Hot Water Distribution
Storm Water Improvements Phase 1 (Detention)	Chilled Water System Improvements Tank Addition
Domestic Water Wells Replacement	Dom. Water System Improvements
IT Infrastructure Phase 1 & 2	Central Plant Boiler Replacement
Substation Transformers Integration	Transformer Replacements
Lighting Improvements	CNPRC Central Plant Improvements
Barryessa Water Treatment Plant	Campus Water Source Improvements
Campus Waste Management Improvement	West Campus Connectivity Improvements
Orchard Park Connectivity Improvements	Traffic and Safety Improvements
Garrod and La Rue Realignment	Bike and Pedestrian Improvements
Sanitary Sewer Lift Station & Pump Improvements	Natural Gas System Improvements

Aggie Square Phase 1

- TBD
- Fund source(s): Public Private Partnerships
- 1,650,000 ASF/ 2,400,000 GSF
- New mixed-use innovation district located on the Sacramento campus.
- Delivers high technology innovation, research and development, and community-services spaces on approximately 11 acres.
- Development to be delivered via a public-private partnership.
- Developer to deliver approximately 200 to 300 multi-family apartments in support of the Aggie Square Development.

Aggie Square Tenant Improvements

- \$200M
- Fund source(s): Campus Funds
- Tenant improvements within the Aggie Square Development in support of campus needs
- Builds out the campus leased space within the Laboratory East, Laboratory West, Living Learning Laboratory, and the Community Buildings
- The tenant improvements support two state-of-the-art laboratory buildings, a facility containing co-working space, an incubator/accelerator, classrooms, and other learning spaces, and a public-facing community building.

AUXILIARY PROJECTS

Orchard Park Redevelopment

- TBD
- Fund source(s): Public Private Partnerships
- 560,000 ASF/ 630,000 GSF
- Redevelops the Orchard Park apartment community.

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- Constructs new apartments for student housing. Constructs higher density housing on the site.
- Project anticipated to be delivered via a public-private partnership.
- The project will replace the previous student housing apartments and explore options to densify development on the site to provide additional housing for students and university affiliates. Affordability is a primary driver, which is likely to be accomplished through a multimodal approach to the student housing portfolio.)

Airport Renovations

- \$11.2M
- Fund source(s): Federal Grant, Other Grant, Campus Funds
- Improves the campus' ability to maintain and operate the Airport safely and efficiently and under specified conditions including maintenance and operational
- Projects may be delivered incrementally to align with available grant funding, phasing to support continued facility use, and recognizing the diverse scope and scale of work necessary at the University Airport. Projects will be developed in accordance with the approved Airport Layout Plan (ALP)

Auxiliary Projects< < \$10M

- \$40M
- Fund source(s): Auxiliary Reserves, External Finance, Gift Funds
- TBD ASF/TBD GSF
- Addresses various renewal efforts in Student Affairs, including energy efficiency, deferred maintenance, space reconfigurations resulting from Division-wide reorganizations, and cost-cutting upgrades.
- Comprises several bundled projects for Student Housing and Dining to accomplish deferred maintenance and building upgrades and corrections.
- Captures the major gift-driven initiative targets established by Intercollegiate Athletics.
- Addresses the objectives of donor-development programs.
- Includes capital improvement projects 2020-21 through the planning period 2025-26.
- Projects include, but are not limited to the following: window coverings, fire panels, and sprinkler heads improvements, access/security upgrades, chiller pump, and piping installation, flooring repairs and replacements, AV and IT upgrades, signage improvements, bike storage enhancements, restroom upgrades, lighting replacements, and demolition projects.

Capital Need with Funding Not Identified

EDUCATION AND HEALTH PROJECTS

Veterinary Medical Center

- \$488,535M
- Fund source(s): External Finance, Gift Funds
- Approximately 400,000 GSF new or renovated
- The existing Vet Med Teaching Hospital (VMTH) is the oldest Veterinary Medicine Teaching Hospital in the country; the existing facility is more than 40 years old and faces obsolescence.
- Phased series of projects deliver the vision for the Veterinary Medical Center (VMC) by construction a replacement Veterinary Medical Center and renewing the existing facility.
- Provides new equine performance and clinical facilities, livestock medical facilities, small animal care facilities, large animal support facilities, a visioning center, renewal of the existing community practice (CCAH), and renovation of the existing Vet Med Teaching Hospital to be repurposed for related uses. Includes necessary utility improvements in the projects to complete the vision.

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- Central campus to fund \$25 million infrastructure improvements in support of development efforts and improvements in the Health Sciences District, including the previously approved VMC SUP Primary Electrical Feeders.
- Projects will be phased and approved based on availability of gift funds.
- Projects would continue to address the backlog in deferred maintenance and capital renewal at the UCSF campus sites, including fire and life safety upgrades, environmental regulatory requirement upgrades, and building and infrastructure reliability improvements

EDUCATION AND GENERAL PROJECTS

Electrical Infrastructure Improvements

- \$20
- Fund source(s): State-Eligible
- Improvements to the campus electrical infrastructure including substation transformer integration and S-9 Switch Additions (connect existing Trans to G & H)
- Transformer replacements
- Smart Lighting Initiative 3 and Interior Lighting Projects
- Exterior Lighting Improvement

AUXILIARY PROJECTS

Fleet Services & PO&M Relocation

- \$12M
- Fund source(s): Non-State Eligible
- 35,000 ASF/45,000 GSF
- Relocation of fleet services and PO&M shop into a leased space near the Sacramento Campus.
- Project in preparation for reorganizing location of services in support of the future Aggie Square Development
- Exterior Lighting Improvement