



UNIVERSITY
of ALASKA

Many Traditions One Alaska

Proposed
FY2019 Capital Budget and
10-Year Capital Improvement Plan

Board of Regents
November 9-10, 2017
Fairbanks, Alaska

Prepared by: University of Alaska
Statewide Office of Planning and Budget
907.450.8191

<http://www.alaska.edu/swbir/>

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University of Alaska
Proposed FY2019 Capital Budget Request and
10-Year Capital Improvement Plan
Introduction

Presented within are the proposed FY2019 Capital Budget Request and the 10-Year Capital Improvement Plan. The goal of the Board of Regents' University of Alaska FY2019-FY2028 Capital Improvement Plan (CIP) is to guide decision making that ensures the necessary facilities, equipment, and infrastructure are in place to support the academic direction of the university system, support a continuous improvement philosophy, and permit consideration of the associated future annual operating costs that may be incurred.

The capital budget presents the top priority projects for FY2019 and the short-, mid-, and long-term capital investment goals consistent with the Campus Master Plans. A state investment of \$50 million for Deferred Maintenance (DM)/ Renewal and Repurposing (R&R) is proposed for FY2019. Priority new construction projects that have already received some approval are included in the 10-year capital improvement plan for consideration in future capital budget requests.

University of Alaska
Proposed FY2019 Capital Budget Summary
(in thousands of \$)

	Unrestricted General Funds (UGF)	Designated, Federal and Other Funds	Total Funds
<hr/>			
Facilities Deferred Maintenance (DM) / Renewal & Repurposing (R&R)	50,000.0		50,000.0
<i>UAA Main Campus</i>	<i>12,825.0</i>		<i>12,825.0</i>
<i>UAA Community Campuses</i>	<i>2,968.0</i>		<i>2,968.0</i>
<i>UAF Main Campus</i>	<i>28,107.0</i>		<i>28,107.0</i>
<i>UAF Community Campuses</i>	<i>2,058.0</i>		<i>2,058.0</i>
<i>UAS Main & Community Campuses</i>	<i>2,551.0</i>		<i>2,551.0</i>
<i>SW Statewide</i>	<i>1,491.0</i>		<i>1,491.0</i>
FY2019 Capital Budget Total	50,000.0	0.0	50,000.0
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University of Alaska Proposed 10-Year Capital Improvement Plan (in thousands)

	FY2019		State Appropriations			
	Unrestricted General Fund (UGF)	Designated, Federal, and Other Funds	Total Funds	Short-Term FY20-FY21	Mid-Term FY22-FY23	Long-Term FY24-FY28
Deferred Maintenance (DM)/Renewal & Replacement (R&R)						
Facilities Deferred Maintenance/Renewal & Repurposing	50,000.0		50,000.0	100,000.0	100,000.0	250,000.0
<i>Major Maintenance & Renewal Projects</i>						
<i>UAA Campuses</i>						
Social Sciences Building Renewal				7,130.6	19,869.4	
Fine Arts Building Renewal						35,000.0
Professional Studies Building Renewal						14,605.6
<i>UAF Campuses</i>						
Moore-Bartlett Infrastructure				10,000.0	10,000.0	
Engineering Program Modernization: Duckering				7,000.0		
West Ridge Research Facilities: Elvey Annex (Phase 1) & Exterior (Phase 2)					13,000.0	80,000.0
Arctic Health Facility Upgrade						64,000.0
Fine Arts Program: Salisbury Theater/Multi-Use Instructional Space						25,000.0
Patty Center NCAA Compliance: Men & Women Locker Room Upgrades				2,300.0		
<i>UAS Campuses</i>						
Auke Bay Marine Station (ABMS) / Physical Science Building - Remodel / Replace (\$10.4M Non-state)						
New Construction						
<i>Academic Facilities</i>						
<i>UAA Main Campus</i>						
Health Sciences Phase II Building And Parking Structure				141,500.0		
Cuddy Hall Expansion & Renewal				2,200.0	21,000.0	
Alaska Native Art and Culture Building (\$3.6M Non-state)						
Aviation Complex Expansion						47,500.0
<i>UAA Community Campus</i>						
PWSC Vocational Technology Center					8,000.0	
KPC Kachemak Bay Campus Technical Career Center						7,200.0
<i>UAF Main Campus</i>						
CTC/Fairbanks Campus Fire and Emergency Services Training and Education Facility				38,400.0		
Troth Yeddha /Indigenous Studies Center: Park & Building (Add'l \$25.0M Non-state)					5,000.0	10,000.0

University of Alaska Proposed 10-Year Capital Improvement Plan (in thousands)

	FY2019		State Appropriations			
	Unrestricted General Fund (UGF)	Designated, Federal, and Other Funds	Total Funds	Short-Term FY20-FY21	Mid-Term FY22-FY23	Long-Term FY24-FY28
<i>UAF Community Campus</i>						
Community & Technical College (CTC) Aviation/Hangar Addition						13,000.0
Kuskokwim Campus Consortium Learning Center						7,200.0
<i>UAS Main Campus</i>						
Egan Library/Cyril George Indigenous Knowledge Center (\$2.25M Non-state)						
Welding Lab Replacement				1,800.0		
Lakeside Access Improvements - Phase 1 - Lakeside Classroom (\$2.15M Non-state)						
Center for Mine Training Portal						1,500.0
<u>Research Facilities</u>						
<i>UAF Main Campus</i>						
Toolik Research Field Station: Classroom (\$3.0M Non-state)						
Science, Teaching & Research Building (West Ridge Research Building #2)						100,000.0
<u>Student Life (Housing), Support, and Other Facilities</u>						
<i>UAA Main Campus</i>						
Student Support Services and Student Union Building					79,000.0	93,000.0
Administration, Alumni Relations and Visitor Center						33,000.0
Community Arena and Recreational Facility						70,000.0
<i>UAA Community Campus</i>						
Mat-Su Student Housing						12,000.0
<i>UAF Main Campus</i>						
Student Recreation Center Expansion					500.0	11,500.0
Campus (Undergraduate & Graduate) Housing Project					6,500.0	65,000.0
Athletics & Recreation: Patty Center Complex Connector						20,000.0
<i>UAS Main Campus</i>						
Student Union (Add'l \$10.0M Non-state)				10,000.0		
Facility Services Building Replacement - Juneau				500.0	8,500.0	
Egan Library - Enhancements					1,600.0	
Banfield Hall Conversion (Add'l \$1.25M Non-state)				500.0	500.0	250.0
Auke Lake Student Study Spaces					500.0	500.0

University of Alaska Proposed 10-Year Capital Improvement Plan (in thousands)

	FY2019		State Appropriations			
	Unrestricted General Fund (UGF)	Designated, Federal, and Other Funds	Total Funds	Short-Term FY20-FY21	Mid-Term FY22-FY23	Long-Term FY24-FY28
Lakeside Access Improvements Phase 2 - Floating Trail and Dock (\$2.1M Non-state)						
Auke Lake Cultural Center						26,000.0
Auke Lake Field House						11,000.0
Infrastructure						
<i>UAA Main Campus</i>						
Master Plan Circulation Improvements				5,500.0		
<i>UAA Community Campus</i>						
MAPTS Kenai Ground Water Contamination Mitigation				2,020.0	20.0	50.0
Kodiak Entrance Road Realignment and Exterior Lighting				6,000.0		
Mat-Su Roads, Circulation, & Parking Improvements					2,000.0	
<i>UAF Main Campus</i>						
Coal Ash Disposal Site (CHP)				1,000.0		
Core Campus Parking Garage (Add'l \$4.0M Non-state)						4,350.0
<i>UAS Main Campus</i>						
Juneau Campus Pavement Replacement					500.0	700.0
Land, Property, and Facilities Acquisitions						
<i>UAA Main Campus</i>						
Adjacent Land and Property Acquisitions (\$2.0M Non-state)						
<i>UAA Community Campus</i>						
Kodiak CTC Skills Warehouse Acquisition (\$2.4M Non-state)						
KPC Kachemak Bay Campus Property Acquisition (\$1.8M Non-state)						
Kenai River Campus Property Acquisition (\$2.2M Non-state)						
<i>UAF Main Campus</i>						
Early Childhood Education and Childcare Center (\$850k Non-state)						
<i>UAS Main Campus</i>						
Natural Science Research Facility - Sale Preparation (\$0.5M Non-state)						
Research for Alaska						
<i>UAF Main Campus</i>						
Sustaining USArray Capabilities in Alaska (Add'l \$12.5M Non-state)				5,000.0		
Alaska Operating Environment Data Center (Add'l \$350k Non-state)				750.0		
Revitalizing Alaska Native Languages (RANL) (Add'l \$250k Non-state)				250.0		

University of Alaska Proposed 10-Year Capital Improvement Plan (in thousands)

	FY2019		State Appropriations			
	Unrestricted General Fund (UGF)	Designated, Federal, and Other Funds	Total Funds	Short-Term FY20-FY21	Mid-Term FY22-FY23	Long-Term FY24-FY28
Academic Equipment						
<i>UAA Main Campus</i>						
College of Engineering Materials Testing Lab Upgrades				350.0		
Consortium Library - Library Materials for UA				800.0	300.0	
<i>UAF Main Campus</i>						
e-Learning Recording Capabilities, ADA Accessibility & Instructional Classroom Technology					2,000.0	
<i>UAS Main Campus</i>						
Smart Classrooms Juneau Campus					100.0	
Total	50,000.0		50,000.0	343,000.6	278,889.4	1,002,355.6

University of Alaska
FY2019 Priority Deferred Maintenance (DM) and Renewal and Repurposing (R&R) Projects
State Appropriations (in thousands of \$)

Project Name	DM & R&R
UAA Main Campus	
Campus Building Envelope & Roof System Renewal	1,000.0
Campus Building Interior & Systems Renewal	1,000.0
Campus Exterior Infrastructure and Signage Renewal	900.0
EM1 & EM2 Mechanical	525.0
Consortium Library Old Core Mechanical Upgrades	4,900.0
Campus Access/Security Modernization Phase 1	2,000.0
Campus Space Reallocation/Consolidation Phase 1 (DSS/ISER)	2,500.0
UAA Main Campus Project Total	12,825.0
UAA Community Campuses	
Kenai Peninsula College Campus Renewal	934.3
Kodiak College Campus Renewal	279.8
Prince William Sound College Campus Renewal	55.1
Matanuska-Susitna College Campus Renewal	1,076.6
Kenai Peninsula - Kachemak Bay Campus Renewal	72.2
Prince William Sound College Multipurpose Training Room Reconfiguration	150.0
Kenai Peninsula - Kachemak Bay Library/Computer Classroom Renovation	150.0
Kodiak College Infrastructure Standby Generator	250.0
UAA Community Campuses Subtotal	2,968.0
UAA DM and R&R Total	15,793.0
UAF Main Campus	
Building Envelope & Roof Systems Renewal	5,355.0
Fairbanks Campus Building Interior & Systems Renewal	13,090.0
Campus Infrastructure and Signage Renewal	6,852.0
Regulatory Compliance - ADA, Title IX & Transgender	2,810.0
UAF Main Campus Subtotal	28,107.0
UAF Community Campus	
Rural & Community Campus Renewal	2,058.0
UAF Community Campus Subtotal	2,058.0
UAF DM and R&R Total	30,165.0
UAS Main & Community Campuses	
Auke Lake Pedestrian Guardrail Replacement	300.0
Replace Fire Alarm Panel	75.0
Demolish Soboleff Annex and Landscape	75.0
Technical Education Center Overpass Power Wash and DOT Maintenance List	50.0
Sitka Campus Hangar Replace/Repair Atrium Skylight	100.0
Technical Education Center Boiler Replacement	500.0
Sitka Campus Hangar Back-up Generator and UPS	500.0

University of Alaska
FY2019 Priority Deferred Maintenance (DM) and Renewal and Repurposing (R&R) Projects
State Appropriations *(in thousands of \$)*

Project Name	DM & R&R
UAS Main & Community Campuses (continued)	
Egan Library Replace Penthouse Siding	175.0
Housing Fuel Tank Replacements	240.0
Sitka Campus Hangar Doors Replacement	50.0
Novatney Roof Replacement	285.0
Facilities Replace Fuel Shed & Tanks	201.0
UAS Campuses Total	2,551.0
Statewide	
Butrovich Lighting Upgrades	810.0
Butrovich Building Repairs	606.0
University House Repairs	75.0
Statewide DM and R&R Total	1,491.0
UA FY2019 DM and R&R Total	
	50,000.0
Additional DM and R&R	
UAA Main Campus	268,392.9
UAA Community Campuses	19,086.0
UAF Main Campus	687,951.3
UAF Community Campuses	27,487.1
UAS Main & Community Campuses	6,077.8
Statewide	2,261.5
Additional DM and R&R Total	1,011,256.6
UA DM and R&R Total	1,061,256.6

FY19 Priority Deferred Maintenance (DM) and Renewal & Repurposing (R&R) Project Descriptions

Facilities Deferred Maintenance (DM) and Renewal and Repurposing (R&R)

(GF: \$50,000.0, NGF: \$0.0, Total: \$50,000.0)

The University of Alaska (UA) is responsible for maintaining facilities and infrastructure across the state. UA continues to be good stewards of these valuable assets, while exploring ways to reduce its facilities footprint and long-term operating costs. UA has over 400 facilities, with an average age of 33 years, an inflation-adjusted value of \$3.8 billion, and a deferred maintenance/renewal & repurposing (DM/R&R) backlog in excess of \$1 billion. UA requests \$50 million in FY2019 for deferred maintenance/renewal & repurposing funding.

UAA Main Campus

UAA Campus Building Envelope & Roof Systems Renewal

(GF: \$1,000.0, NGF: \$0.0, Total: \$1,000.0)

This project addresses campus-wide deferred maintenance and renewal and replacement requirements for building envelope and roof systems. It includes roof repair and replacement, and repair or systematic replacement of exterior doors, windows, vapor barriers, siding, weatherization, insulation, and correction of other building envelope issues necessary to maintain the integrity of the building shell. This allocation also addresses immediate code compliance or life safety issues identified with building envelope or roof projects.

UAA Campus Building Interior & Systems Renewal

(GF: \$1,000.0, NGF: \$0.0, Total: \$1,000.0)

Many of the original buildings on the UAA campus were constructed in the early- to mid-1970s and the building systems are beginning to fail. Many systems are no longer adequate for the current demands and require replacement or upgrading. The mechanical, electrical and HVAC systems in particular fall into this category. Replacement parts for many of these systems are no longer available. The older systems are very expensive to operate due to their low efficiencies. Replacement of these systems will improve energy efficiencies and provide better environmental control throughout the building. This project will replace associated failing piping, boilers, fans, deficient VAV boxes and upgrade the building automation system controls. Increased use of newer technology requires replacement of inadequate electrical systems and inefficient lighting. This project also repairs or replaces interior doors, wall partitions, ceilings as needed and addresses immediate code compliance or life safety issues identified with building interiors or support systems.

UAA Campus Exterior Infrastructure and Signage Renewal

(GF: \$900.0, NGF: \$0.0, Total: \$900.0)

The UAA campus is almost 50 years old and many of the roads, trails, sidewalks, parking areas, curbs and gutters are part of the original construction or have been impacted by construction, repair and renovation projects over the years. This results in uneven surfaces, lack of adequate sidewalks and other deficiencies posing a safety hazard or are increasingly susceptible to additional damage. This funding addresses the need to upgrade and repair these surfaces in order to maintain a safe and effective environment as students, staff and the public move around campus. Subsurface infrastructure such as storm drain, sewer, water, natural gas and electrical lines also require repair and replacement due to corrosion and decay. Updates to exterior wayfinding signage are required due to weather exposure and campus churn and reorganization.

FY19 Priority Deferred Maintenance (DM) and Renewal & Repurposing (R&R) Project Descriptions

UAA EM1 & EM2 Mechanical

(GF: \$525.0, NGF: \$0.0, Total: \$525.0)

The energy modules (EM1, EM2) were constructed in 1977 and provide stand-alone heating and cooling services for a number of campus facilities. The energy module boilers, pumps and piping systems are over 30 years old and have been failing due to age, corrosion and fatigue. Many of these failures have occurred during the critical winter months when additional stresses are placed on the systems due to increased heating demands and environmental impacts. These failures affect service and further impact other systems driving up associated costs. Emergency repairs are very expensive, time consuming, and have a severe impact on students, faculty and staff working in the buildings served by the modules. The total cost to complete this project is \$5.8 million. Deferred maintenance funding of \$1.5 million to date, along with FY19 funding of \$525 thousand is about half of the funding needed to complete this project.

UAA Consortium Library Old Core Mechanical Upgrades

(GF: \$4,900.0, NGF: \$0.0, Total: \$4,900.0)

The original HVAC systems consist, for the most part, of equipment over 45 years old located within the four central building cores. The boilers, main supply/exhaust fan units, heating/cooling coils, galvanized piping and humidification systems have all reached the end of their useful life. Major component parts are no longer available for repairs on these units. Control systems are no longer able to properly regulate airflow resulting in irregular temperatures and conditions within the building. The 2004 library addition contains newer HVAC systems with different control and delivery systems and technology that have resulted in incompatibilities between the two systems and have affected the efficiencies of both systems. Total cost to complete this project is estimated at \$16.2 million. Deferred maintenance funding of \$4.9 million in FY18, along with this request of \$4.9 million in FY19 will bring the campus to about half of the total funds and work needed for full completion.

UAA Campus Access/Security Modernization Phase 1

(GF: \$2,000.0, NGF: \$0.0, Total: \$2,000.0)

Concerns raised by faculty and staff based on the rise of “active shooter” incidents nationwide, prompted a review of the ability to secure buildings, classrooms, and other facilities - manually or automatically - in the event of any incident requiring persons to shelter-in-place. Initial review of the level of effort involved to upgrade all room entrances with appropriate locking mechanisms and automation revealed that this will be a multi-year, multimillion dollar effort. The facilities have a wide mix of access control procedures, lock mechanisms, and automation controls that do not integrate well or at all. This project is developed to fully assess the level of effort needed, design an action plan, and implement the first increments of access control security related measures for the highest priority campus facilities and/or spaces. Future phases and estimated costs will be identified based on the outcome of this initial phase.

UAA Campus Space Reallocation/Consolidation Phase 1 (Disability Support Services/Institute of Social and Economic Research)

(GF: \$2,500.0, NGF: \$0.0, Total: \$2,500.0)

As the State’s budget challenges have unfolded, the University has undertaken programmatic and administrative reviews to reduce costs. One obvious way to save costs is to reduce the physical footprint of campus facilities from which we operate. Reducing occupied square footage trims the maintenance, repair, custodial and utility costs, as well as eliminating deferred maintenance backlog. In the event of emptying a

FY19 Priority Deferred Maintenance (DM) and Renewal & Repurposing (R&R) Project Descriptions

full facility, we are relieved of lease obligations for rented space or future life cycle cost for owned assets. Internally, UAA has initiated a space assessment to determine where reallocation, consolidation, and compaction could occur. Some vacant space currently exists, but can only truly be recaptured for use by restacking organizations into contiguous spaces and reassigning off-campus departments to the recovered defragmented spaces. This project will plan and move the first increment of organizations internally to Main Campus, providing space to absorb other entities and functions currently residing in leased spaces and off-campus. Work includes not only the physical movement of occupant or organizational contents between spaces, but planning and managing the restacking process, posting new signage and wayfinding for relocated entities, refreshing building interiors as needed, and ancillary costs related to systematic relocation. Relocating Disability Support Services to a larger space to meet regulatory mandates and associated dislocations is one initial critical need. Consolidating space within the College of Business and Public Policy and returning the Institute of Social and Economic Research to Main Campus will free 8,500 SQ FT of space off-campus for other needs or disposal.

UAA Community Campuses

Kenai Peninsula College Campus Renewal

(GF: \$934.3, NGF: \$0.0, Total: \$934.3)

This project will address campus-wide deferred maintenance issues and renewal and replacement requirements for building envelope and roof systems, building interiors and systems, exterior infrastructure and signage, and code compliance and life safety issues.

Kodiak College Campus Renewal

(GF: \$279.8, NGF: \$0.0, Total: \$279.8)

The buildings on the Kodiak Campus were constructed in the early to mid-1970's. The original windows suffer from worn seals that cause air infiltration. The mechanical and electrical systems are in need of renewal to meet the increased student demand and increased use of new technology. Roofing repairs are required, specifically for the campus center. Parking lot lighting repair and upgrades are required until the Kodiak Road Realignment and Exterior Lighting project is completed. Improvements to layout and design will increase space efficiency and allow for replacement of worn and outdated fixed equipment. This project will address campus-wide deferred maintenance issues and renewal and replacement requirements for building envelope and roof systems, building interiors and systems, exterior infrastructure and signage, and code compliance and life safety issues.

Prince William Sound College Campus Renewal

(GF: \$55.1, NGF: \$0.0, Total: \$55.1)

The Growden-Harrison building was originally build shortly after the 1964 earthquake as an elementary school and was added onto in a piecemeal fashion in the following years. Recent re-siding of this building has helped improve the performance of the building envelope, however, aging mechanical, electrical, HVAC systems are currently undersized for the facility and have included the use of asbestos containing materials. The entire parking lot requires regrading and repaving due to the severe freeze-thaw cycle in Valdez and subsurface drainage issues. This project will address campus-wide deferred maintenance issues and renewal and replacement requirements for other building envelope and roof system issues, building interiors and systems, exterior infrastructure and signage, and code compliance and life safety issues.

Matanuska-Susitna College Campus Renewal

(GF: \$1,076.6, NGF: \$0.0, Total: \$1,076.6)

This project will address campus-wide deferred maintenance issues and renewal and replacement requirements for building envelope and roof system issues, building interiors and systems, exterior infrastructure and signage, and code compliance and life safety issues.

Kenai Peninsula College - Kachemak Bay Campus Renewal

(GF: \$72.2, NGF: \$0.0, Total: \$72.2)

A significant portion of the Pioneer Hall campus building (KB101, 7,200 SQFT.) was originally built in 1988 as a post office. The roof and mechanical/electrical systems are original and require replacement. This project will address campus-wide deferred maintenance issues and renewal and replacement requirements for other building envelope and roof system issues, building interiors and systems, exterior infrastructure and signage, and code compliance and life safety issues.

Prince William Sound College Multipurpose Training Room Reconfiguration

(GF: \$150.0, NGF: \$0.0, Total: \$150.0)

Funding will provide a large flexible training space for lecture, conference, or hands-on training. The Prince William Sound College GE Instruction and Vocational Technology / Workforce Development Training programs continue to expand and explore instruction and vocational training opportunities in areas such as the rural health care fields, industry, and other work force development needs in line with the UA and State of Alaska workforce development objectives. The current facility does not have any space that can accommodate groups of 20 or more people. This additional space would be used year-round for instruction, training, student success support and campus events. This is a phased project with a total cost of \$900k.

Kenai Peninsula College - Kachemak Bay Campus Library/Computer Classroom Renovation

(GF: \$150.0, NGF: \$0.0, Total: \$150.0)

This project will reconfigure and renovate approximately 1,850 sf of classroom and study space within Pioneer Hall on the Kenai Peninsula College - Kachemak Bay campus. Scope of work includes converting the existing library to a classroom and reapportioning and converting a smaller classroom and computer lab to a larger library and appropriate-sized multifunction computer classroom lab. This is a phased project with a total project cost of \$600k.

Kodiak College Infrastructure Standby Generator

(GF: \$250.0, NGF: \$0.0, Total: \$250.0)

Kodiak College reports loss of power 5-6 times a year, sometimes for several hours. These outages are a safety and security concern for staff and students; additionally, it can cause permanent damage to the building infrastructure. Additionally, the city emergency management office asks that the college be prepared to provide distribution services for emergency supplies, act as temporary medical clinic, or support other recovery site functions other than a public shelter. This would require backup power to support facilities in the event the power supply fails. Preliminary planning and design was developed in August 2006, but will need to be revalidated before proceeding with full design and installation. This project replaces a 250kw standby power generator and above-ground storage tank with automatic transfer switch and distribution to campus critical power requirements. Work also includes installing a generator shelter, concrete pads, security fencing,

FY19 Priority Deferred Maintenance (DM) and Renewal & Repurposing (R&R) Project Descriptions

lighting, driveway access, and other features necessary to integrate and operate the standby power generation system with campus facilities. This is a phased project with total project cost of \$500k.

UAF Main Campus

UAF Building Envelope & Roof Systems Renewal

(GF: \$5,355.0, NGF: \$0.0, Total: \$5,355.0)

Projects within this category will address deferred maintenance, renewal and renovation requirements for buildings' envelopes and roof systems. They include roof repairs and replacements, doors, windows, vapor barriers, painting, siding, weatherization, insulation, foundations, and other building envelope issues.

The building envelope elements for the selected buildings are in the worst condition needing re-roofing, windows replacements, and storefront upgrades. The roofing projects are an ongoing replacement of roofs that have reached the end of their useful and protective life. The buildings' windows and storefronts are mostly original to the building with older building technology and poor insulation values or have deteriorated from constant high volume use.

A systematic buildings envelope replacement and improvement is needed to prevent leaks, failures, and disruptive damage to other building assets and occupants. This allows uninterrupted buildings' programmatic functions from emergency repairs, lowers maintenance cost from costly short-term repairs, increase energy-efficiency with up-to-date insulation, improve thermal and moisture protection with contemporary tighter construction. The improved buildings' exterior envelopes also have better performance and an added aesthetic value to the campus.

This request includes roof replacements at two of the Cutler Apartment Complex buildings, installation of card swipes on exterior doors, storefront replacements in the core of campus and window replacements on older buildings.

UAF Fairbanks Campus Building Interior & Systems Renewal

(GF: \$13,090.0, NGF: \$0.0, Total: \$13,090.0)

The interior systems projects address the buildings' mechanical, electrical and HVAC systems. These projects will replace failing piping, inadequate electrical systems, inefficient lighting, damaged finishes, fans, deficient VAV boxes and upgrade the buildings automation system controls. This category also includes efforts to remove asbestos containing material (ACM) in particular building areas.

Many of the buildings in the UAF system were constructed in the 1960s and 1970s and the building interiors and systems are in very poor shape and beginning to fail; they are no longer adequate for the current demands and require replacement or upgrading. Replacement parts for many of these systems are no longer available. Many of the systems are expensive to operate due to their low efficiencies. Replacement of these systems will allow for increased energy efficiencies, more attractive interiors, and better environmental control throughout UAF's facilities.

Besides improving buildings' functionality, more comfortable working environment and creating the right aesthetic impressions for current and future students and the public, the improvements will reduce maintenance costs. The projects lower operational costs by upgrading or replacing old building technology systems with current up-to-date technology where there is greater payback.

FY19 Priority Deferred Maintenance (DM) and Renewal & Repurposing (R&R) Project Descriptions

This request includes upgrading interior locks on classrooms and offices to improve safety, annual restroom renovations, elevator renewals, and HVAC upgrades of older equipment.

UAF Campus Infrastructure and Signage Renewal

(GF: \$6,852.0, NGF: \$0.0, Total: \$6,852.0)

The exterior infrastructure projects address the campus roadways, trails, parking, sidewalks, plazas, outdoor lighting, and utility systems. This also includes wayfinding improvements.

The severe Fairbanks climate takes a toll on the many roads, trails, sidewalks, parking areas, curbs and gutters across our campus creating uneven surfaces. Lack of adequate sidewalks and other deficiencies pose a safety hazard or are increasingly susceptible to additional damage. The exterior lighting in the selected buildings is original to the building and needs to be replaced with more energy efficiency LED lights.

Repairing and upgrading the exterior infrastructure surfaces are required in order to maintain a safe, accessible, and effective environment for students, staff and the public. Adequate exterior wayfinding signage is critical to creating a safe and accessible campus. Improved lighting is needed to increase safety, security, and lower energy consumption by using energy efficient LED's. The utilities projects that include sewer and storm drainage projects are continued efforts to upgrade old and damaged pipes or deteriorated wood stave pipes with modern insulated pipes. The new lines will prevent unanticipated failures.

This request includes upgrading exterior lighting of parking lots and walkways to energy efficient LED technology, storm drainage issues between the Eielson and Gruening building, a study to improve the chilled water system in the campus core, and upgrading single walled fuel tanks to double walled.

UAF Regulatory Compliance - ADA, Title IX, & Transgender

(GF: \$2,810.0, NGF: \$0.0, Total: \$2,810.0)

Complying with regulations including building and life safety codes, the Americans with Disabilities Act and Title IX, and accommodating transgender students, staff and faculty is a top priority at UAF. Remaining in compliance requires an on-going effort to modify and upgrade exterior hardscapes, elevators, building passageways, toilet and locker rooms, signage and security infrastructure.

The UAF Facilities Services maintenance staff tracks all maintenance requests from the campus community. Certain repair requests such as exit doors and broken hardware repairs in this category receive disproportionate number of repair requests. Other project needs are to create ADA and gender-inclusive restrooms in buildings where there are none.

This category has requests that typically require quick response for life safety and general regulatory compliance. Timely and proactive response provides improved life-fire-safety, security, code compliance, and reduces maintenance cost. Besides the projects' regulatory requirements, these projects benefit the diverse campus communities.

This request includes renovations to come of the athletic team locker rooms for NCAA/GNAC compliance, a code correction study for both egress path exiting within the Duckering building, and Patty Center shower room renovations to increase privacy and security of facility users.

FY19 Priority Deferred Maintenance (DM) and Renewal & Repurposing (R&R) Project Descriptions

UAF Community Campus

Rural & Community Campus Renewal

(GF: \$2,058.0, NGF: \$0.0, Total: \$2,058.0)

The UAF Rural projects include aggregated general scopes for all categories of building envelopes, exterior infrastructure, and interior systems with a top priority for renewal and regulatory compliance requirements projects. These projects include College of Rural and Community Development (CRCDD) facilities at Bristol Bay Campus, Chukchi Campus, Kuskokwim Campus, Northwest Campus, Interior Alaska Campus, and Brooks Building.

The distant locations of the CRCDD campuses requires UAF to prioritize regulatory compliance, distance education, energy efficiency and conservation projects. Energy costs in rural Alaska are much higher than in urban areas like Anchorage and Fairbanks.

Systematic building improvement, energy efficiency, increase in higher-grade and durable construction material will reduce operational and maintenance costs. This also reduces the frequency of building system failures that are costly because of emergency shipping for both labor and material.

The largest project at the rural campuses is to replace the failing HVAC system within the Maggie Lind Building of the Kuskokwim Campus building. Other projects to be completed include upgrades to fire alarm systems, replacement of inefficient light fixtures, and code upgrades to fuel oil tanks.

UAS Main & Community Campuses

UAS Auke Lake Pedestrian Guardrail Replacement

(GF: \$300.0, NGF: \$0.0, Total: \$300.0)

Existing pedestrian guardrails are made from wood, are expensive to paint, have a large flat top that is always covered in bird droppings, and the openings do not meet current building codes. This project will construct a new railing made of more durable materials which will lower maintenance costs.

UAS Replace Fire Alarm Panel

(GF: \$75.0, NGF: \$0.0, Total: \$75.0)

Existing fire alarm panel in the Technical Education Center is no longer supported by the manufacturer and is showing signs of failure. This project will replace the fire alarm panel and supporting devices.

UAS Demolish Soboleff Annex and Landscape

(GF: \$75.0, NGF: \$0.0, Total: \$75.0)

The Soboleff Annex building is a double wide trailer intended for temporary use. The UAS Master Plan recommends removing this building and replacing with an open area. The building has exceeded its useful life, requiring more maintenance than it's worth and does not fit the character of campus. This project will remove the structure and replace it with a hard scape and landscape area for use by UAS staff and students.

UAS Technical Education Center Overpass Power Wash and DOT Maintenance List

(GF: \$50.0, NGF: \$0.0, Total: \$50.0)

UAS owns and operates the pedestrian highway overpass between the Juneau Douglas High school and the UAS Technical Education Center. Department of Transportation and Public Facilities bridge department inspects the overpass and provides a list of maintenance that UAS needs to have completed. This project will complete these required maintenance tasks.

Sitka Campus Hangar Replace/Repair Atrium Skylight

(GF: \$100.0, NGF: \$0.0, Total: \$100.0)

The skylight in the Sitka Campus building has been leaking for several years. Facility maintenance has re-caulked the window several times with limited success. This project will replace the skylight with a modern skylight design that does not rely on caulking for moisture protection.

UAS Technical Education Center Boiler Replacement

(GF: \$500.0, NGF: \$0.0, Total: \$500.0)

The existing boilers date from the 1983 construction of the Technical Education Center and have reached the end of their service lives. Replace the two boilers with oil-fired boilers, reconfigure piping to primary-secondary with new primary pumps and lead-lag variable speed secondary pumps. Includes direct digital control changes and new graphics. Investigate feasibility of using an air source heat pump or water source heat pump to reduce energy costs.

Sitka Campus Hangar Back-up Generator and UPS

(GF: \$500.0, NGF: \$0.0, Total: \$500.0)

Sitka does not currently have a backup generator for power failure. The campus houses important research material in deep freeze freezers. A prolonged power failure could cause irreplaceable damage to research materials. This project would install a backup generator that is capable of supporting these freezers, basic mechanical systems, emergency lighting and critical IT and communication services so the campus can provide basic services during a utility power failure.

UAS Egan Library Replace Penthouse Siding

(GF: \$175.0, NGF: \$0.0, Total: \$175.0)

The siding on the Egan Library is made from a western cedar that has been painted. The siding on the mechanical room penthouse has started to deteriorate exposing the underlying building moisture membrane. This project will replace all the siding on the penthouse.

UAS Housing Fuel Tank Replacements

(GF: \$240.0, NGF: \$0.0, Total: \$240.0)

Existing underground fuel tanks at the UAS housing facility are more than 20 years old, and have reached the end of their useful life. The financial and environmental consequences of a leaky underground fuel tank are substantial. This project will look at the feasibility of heating the housing units with air source heat pumps instead of oil. If air source heat pumps will not work for this facility, the existing single fuel tanks will be replaced with double walled fuel tanks with leak detection monitoring.

Sitka Campus Hangar Doors Replacement

(GF: \$50.0, NGF: \$0.0, Total: \$50.0)

Exterior doors in the Sitka Campus building are more than 20 years old, are worn out and no longer operate smoothly or provide a clean seal. This project will replace all the exterior doors with new metal doors, frames, hardware and electronic locking systems.

UAS Novatney Roof Replacement

(GF: \$285.0, NGF: \$0.0, Total: \$285.0)

The existing roof on the UAS Novatney building is more than 25 years old, exceeding its warranty date. This project will replace the roofing system.

UAS Facilities Replace Fuel Shed & Tanks

(GF: \$201.0, NGF: \$0.0, Total: \$201.0)

The UAS facility fuel shed and tanks are more than 20 years old and have exceeded their useful life. This project will replace the fuel shed and fuel tanks.

Statewide

Statewide Butrovich Lighting Upgrades

(GF: \$810.0, NGF: \$0.0, Total: \$810.0)

In 2010 a lighting study was conducted for the Butrovich Building to evaluate the efficiency and condition of the existing fixtures and controls. Based on the findings of this survey, there were 7 recommendations made to increase the energy efficiency of the building and reduce the operating costs for maintaining the building's lighting systems. During the summer of 2014, a "Daylight Harvesting" project was completed on the north side of the building to correct issues with an earlier system that had been installed but failed to work properly, which addressed part of one of the recommendations from the report. That project has proven to be successful and is working as designed. This project will complete the rest of the recommendations from the 2010 Study.

Statewide Butrovich Building Repairs

(GF: \$606.0, NGF: \$0.0, Total: \$606.0)

The Butrovich building was constructed in 1988 and is at a point where many of its building components are reaching their life cycle end. Over the next five to ten years, many of the main mechanical systems will come due for replacement or refurbishing.

Statewide University House Repairs

(GF: \$75.0, NGF: \$0.0, Total: \$75.0)

The University house is over 20 years old and has reached a point where systems and components will need to be repaired or replaced as they are at the end of their useful life. The building envelope needs to be maintained to ensure that the structure remains sound. Replacement of the roof should be completed within the next 3-7 years and exterior surfaces need to be inspected, repaired or replaced and refinished.

References

FY19-FY28 Capital Budget Request Project Descriptions

Facilities Deferred Maintenance (DM) and Renewal and Repurposing (R&R)

FY19 (GF: \$50,000.0, NGF: \$0.0, Total: \$50,000.0)

FY20-FY28 (GF: \$450,000.0, NGF: \$0.0, Total: \$450,000.0)

The University of Alaska (UA) is responsible for maintaining facilities and infrastructure across the state. UA continues to be good stewards of these valuable assets, while exploring ways to reduce its facilities footprint and long-term operating costs. UA has over 400 facilities, with an average age of 33 years, an inflation-adjusted value of \$3.8 billion, and a deferred maintenance/renewal & repurposing (DM/R&R) backlog in excess of \$1 billion. UA requests \$50 million in FY2019 for deferred maintenance/renewal & repurposing funding.

Major Maintenance and Renewal Projects

UAA Social Sciences Building Renewal

FY20-FY21 (GF: \$7,130.6, NGF: \$0.0, Total: \$7,130.6)

FY22-FY23 (GF: \$19,869.4, NGF: \$0.0, Total: \$19,869.4)

The Social Sciences Building (SSB) was built in 1974 and used extensively for office, classroom and lab space, as well as the central information systems control center (IT Services). It was originally built with a relocatable wall system that is no longer functional. The backup generator has failed and cannot be replaced because of current code requirements; now relying on portable generator for backup. Deferred Maintenance backlog on this building is nearly \$18M with \$2M projected in the next few years. This building will require extensive renovations to meet current operational, energy efficiency, code, and safety requirements. Architectural, structural, mechanical, electrical and networking systems are all in need of extensive repairs, upgrades or replacement. This project will include lighting upgrades, ceiling grid replacement, carpet replacement, office upgrades, classroom reconfiguration, interior painting, and replacement of select classroom and office furniture. The 40-year old roof would also be replaced. IT back-up systems, cooling systems, and layout will be assessed and upgraded or replaced as necessary.

UAA Fine Arts Building Renewal

FY24-FY28 (GF: \$35,000, NGF: \$0.0, Total: \$35,000)

UAA's Fine Arts Building was built in 1986. The building is heavily used by the University and the Anchorage community. Over the years the finishes have become outdated and worn, and the building systems have begun to fail. The major mechanical systems of the Fine Arts Building are no longer providing adequate ventilation, heating and cooling of the classroom labs, shops, studios and offices. Critical needs are to provide a properly controlled storage environment for educational materials, furnishings, musical instruments and equipment. This project will completely renovate the existing 139,520 GSF Fine Arts Building to provide offices, classrooms, instructional labs and modernized restrooms. The project scope involves the refurbishment/ replacement of the mechanical systems (HVAC). The electrical systems will be upgraded throughout the building to ensure code compliance, improve lighting in all areas, upgrade fire systems and increase available power to meet the needs of the users. Interior finishes including restroom plumbing and fixtures, carpets and floor coverings, and the elevators will be renewed or upgraded. The building envelope will be renewed to increase thermal efficiency and correct weatherization issues. This project has been deferred long enough that the two projects must be combined due to the criticality of replacing aging building systems and the complexity of upgrading or replacing independent systems reliant on each other.

FY19-FY28 Capital Budget Request Project Descriptions

UAA Professional Studies Building Renewal

FY24-FY28 (GF: \$14,605.6, NGF: \$0.0, Total: \$14,605.6)

In 1973, the Professional Studies Building (PSB) was built adjacent to the five buildings constructed as the foundation of West Campus in 1970. The PSB was expanded shortly thereafter in 1975 with a classroom/studio wing to the west and the construction of the Wendy Williamson Auditorium to the east. This project renovates the entire 87,351 GSF facility. The primary purpose of the renovation is to remove the deferred maintenance backlog, improve energy efficiencies, and mitigate code related compliance issues. An outcome of the renovation, will be improved space utilization through review of current program uses and corresponding space consolidations as well as creation of flexible use classrooms. Renewal includes the replacement and updating exterior envelope, elevators, mechanical, electrical, plumbing, HVAC, fire protection/suppression, telecommunications, architectural finishes, and building automation systems.

UAF Moore-Bartlett Infrastructure

FY20-FY21 (GF: \$10,000.0, NGF: \$0.0, Total: \$10,000.0)

FY22-FY23 (GF: \$10,000.0, NGF: \$0.0, Total: \$10,000.0)

The plumbing infrastructure in the Moore and Bartlett dormitories is near the end of its life. The copper piping has corroded to the point of failure in some areas. This project will replace the plumbing and reconfigure the restrooms to comply with modern dorm restroom expectations.

UAF Engineering Program Modernization: Duckering

FY20-FY21 (GF: \$7,000.0, NGF: \$0.0, Total: \$7,000.0)

This project will renovate and modernize teaching lab space in the Duckering building once the new engineering facility is complete. The engineering program has grown to the point that both the new building and a modernized "old" building are required to support the program.

UAF West Ridge Research Facilities: Elvey Annex (Phase 1) & Exterior (Phase 2)

FY22-FY23 (GF: \$13,000.0, NGF: \$0.0, Total: \$13,000.0)

FY24-FY28 (GF: \$80,000.0, NGF: \$0.0, Total: \$80,000.0)

Phase 1 includes code corrections, a new roof, ventilation, electrical and seismic upgrades of the Elvey Annex. Phase 2 is a major renovation of the Elvey tower to abate the asbestos, bring the seismic resistance up to code, upgrade the electrical and mechanical systems and re-skin the building to significantly decrease the energy use. Functional obsolescence will be addressed with efficient office and lab layouts.

UAF Arctic Health Facility Upgrade

FY24-FY28 (GF: \$64,000.0, NGF: \$0.0, Total: \$64,000.0)

Major facility upgrade to the Arctic Building including code corrections, renovation of functionally obsolete space and equipment, and building mechanical and electrical systems.

UAF Fine Arts Program: Salisbury Theater/Multi-Use Instructional Space

FY24-FY28 (GF: \$25,000.0, NGF: \$0.0, Total: \$25,000.0)

The project is a major renovation of the Salisbury Theater. It will address major code deficiencies, create new, smaller learning spaces appropriate for today's teaching methods and replace worn out mechanical and electrical equipment. The resulting variety of smaller learning and convening spaces will serve all of UAF and not just the Theater Department and College of Liberal Arts (CLA). The remodel will create a nominal 200 to

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250-seat smart auditorium, and three 1,000 SF to 2,000 SF open, level-floor rooms useful for meeting, classroom or movement activities.

UAF Patty Center NCAA Compliance: Men & Women Locker Room Upgrades

FY20-FY21 (GF: \$2,300.0, NGF: \$0.0, Total: \$2,300.0)

The existing women's and men's general-use locker rooms have unsupervised entrances from the main corridor, and the Women's Volleyball Team locker room is undersized and inadequate. This project will relocate the volleyball team locker room to a larger space, and create a single access control point for the two public locker rooms and for direct access to the pool deck.

UAS Auke Bay Marine Station (ABMS) / Physical Science Building - Remodel / Replace

FY20-FY21 (GF: \$0.0, NGF: \$10,400.0, Total: \$10,400.0)

Re-purposing the Auke Bay Marine Station (ABMS) property adjacent to the UAS Anderson Building will provide UAS with the opportunity to spatially co-locate academic programs in the natural sciences and promote the development of interdisciplinary program convergence on the Juneau Campus. The existing building is 60 years old and needs a major renovation or replacement.

Academic Facilities

UAA Health Sciences Phase II Building and Parking Structure

FY20-FY21 (GF: \$141,500.0, NGF: \$0.0, Total: \$141,500.0)

UAA is uniquely situated, surrounded by two of the largest hospital complexes in Alaska. As the U-Med district grows, partnerships with neighboring institutions continue to emerge. For the past decade, the university has been in discussion with neighboring institutions about partnering for joint-use health care training facilities. In addition, the demand for health care professionals throughout the state has resulted in a call for increased course and program offerings that UAA is unable to meet because of a lack of facilities. The UAA Health Sciences Sub-district Plan consists of nine acres of prime road-front real estate on Providence Drive and is contiguous with the main campus. The plan was approved by the BOR in February 2009 as an amendment to the 2004 UAA Campus Master Plan and reaffirmed in the 2013 UAA Campus Master Plan. In FY09, the Alaska state legislature appropriated \$46M for the construction of the HSB I, a 65,000 GSF building located on the land parcel UAA received in the 2005 land trade with Providence Hospital. During programming for this building and for the College of Health programs, it was determined that this facility would become Phase I and would only be able to house the Nursing and WWAMI programs with some functions remaining in existing space on the West Campus. It was determined that approximately 99,500 additional GSF of space would be needed in Phase II to accommodate the additional programmatic needs of the Allied Health programs and other health science programs, as well as classroom and administrative space. It calls for several high profile buildings to be located on this site that will require a high volume of parking. In accordance with the UAA Campus Master Plan, all future parking should be consolidated in parking structures on the perimeter of campus to reduce the impact on developable land, provide better traffic control on the campus, and reduce the negative visual impact of surface parking.

UAA Cuddy Hall Expansion & Renewal

FY20-FY21 (GF: \$2,200.0, NGF: \$0.0, Total: \$2,200.0)

FY22-FY23 (GF: \$21,000.0, NGF: \$0.0, Total: \$21,000.0)

Lucy Cuddy Hall is a single story building that is home to the university's culinary arts and hospitality programs and is also the main food service for the West Campus. In addition, Cuddy Hall acts as a community

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center that hosts a variety of activities, ranging from student study to conferences and weddings. Cuddy Hall was built in 1972 and has had additions constructed in 1977 and 2008 in attempts to address the growth of the programs and increased demands on the facility. Funding for the 2008 addition was only able to address a very small portion of the many needs outlined at the time, leaving a large amount of the program to wait for future funding. UAA Facilities Planning and Construction has reviewed the facility again and initial concept planning in 2015 shows Cuddy Hall can successfully be expanded and renovated to address the remaining program needs. Program needs include: the creation of an office suite providing clear identity to the programs, increase instructional space to serve the programs, and make improvements to the layout of commercial kitchen elements of the culinary arts program. Other areas of the building that need to be addressed include: a full renovation of the food service area improving the ability to produce quality and relevant food, make it visible to the public, improve traffic flow, prevent theft, increase the size of the main dining room for student study space, add flexibility to the main dining room by providing dividers for multiple size events, and install audio/visual equipment to improve service for conferences. Additionally, since this building is one of the original five facilities built at the inception of the Anchorage Community College, this project also incorporates a full building renewal. The project will renovate and/or replace the building's mechanical, electrical, plumbing, and fire protection systems; replace the roofing system; replace exterior doors & windows as necessary; renew restrooms and all interior and exterior building finishes, including landscaping; and renovate the loading dock and service parking area.

UAA Alaska Native Art and Culture Building

FY20-FY21 (GF: \$0.0, NGF: \$3,600.0, Total: \$3,600.0)

Alaska native art courses currently are held in a portable structure situated in a mid-campus parking lot. The portable structure is not large enough to meet the growing demands of students interested in taking Alaska native art courses, its infrastructure is inadequate to provide a full range of native art form instruction, and does not have indoor restrooms. Construction of a new Alaska Native Art and Culture Building will correct these deficiencies and will provide a dedicated, culturally-appropriate space for our Alaska native community. The building will include an open studio for general art creation, several smaller areas for creation of specialized art work, a gallery area to display the art, a gathering space/classroom for Alaska native students and elders to share indigenous knowledge among themselves and with the non-Alaska native community alike. This capital request is for receipt authority in the amount of \$3.6M to design and construct about 6,000 GSF of art studio, gallery, multifunction classroom, and supporting administrative spaces. The program is currently seeking funding from local sources and potential benefactors. The project was previously titled Anchorage Native Arts Program Building, but maintains the same CBR 440 and UAA project id #10-0090.

UAA Aviation Complex Expansion

FY24-FY28 (GF: \$47,500.0, NGF: \$0.0, Total: \$47,500.0)

Aviation is a center of excellence program for UAA. UAA offers programs in aviation maintenance, piloting, aviation administration and air traffic control, and conducts significant aviation industry research to meet the needs of the state of Alaska. This project will address immediate building occupancy issues in the former ERA Aviation facility, now the Transportation Research Center (TRC), and the Aviation Technology Center at Merrill Field, and will address the growing demand for UAA's programs in the field of aviation. UAA acquired the former ERA hanger & office building adjacent to our aviation complex at Merrill Field in the spring of 2005. This building was originally built before 1966. As part of the lease agreement with the Municipality of Anchorage, approximately \$400,000 was initially applied to addressing code compliance deficiencies to the facility. In FY07, a \$1.5M dollar appropriation was applied to further address methane gas

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monitoring as well as safety and code compliance issues in the facility. The purpose of this project is to remove the deferred maintenance backlog and expand the facility to meet current program requirements. The new program requirements include 90,000 GSF of research hangars, classrooms, briefing rooms, simulator space, and weather shelters. For the existing building, the project will remove code and regulatory compliance issues and improve energy efficiencies by replacing the building envelope, providing new HVAC system, and provide lighting upgrades.

UAA PWSC Vocational Technology Center

FY22-FY23 (GF: \$8,000.0, NGF: \$0.0, Total: \$8,000.0)

Prince William Sound College has an ongoing and expanding Vocational Technology training program and is currently renting space to run this program. Long-term lease for the current millwright shop has strong potential to not be renewed by the owner, therefore, the college must identify alternative space to continue and expand industry-supporting vocational programs. The PWSC millwright program has existed since 2009. Development of the welding, refrigeration & HVAC, and construction trade fields to be offered as programs rotated on a cyclic basis would provide Valdez and the surrounding communities with education and training in skills supporting the local maritime and mining industries. Some preliminary discussions have taken place presenting two options for vocational space. The first option would be dual use of the Warehouse Facility and expansion/infill between the warehouse and student housing units based on program needs. The second option would be to develop a collaborative, joint venture solution with the local school district to build a shared facility with Valdez High School. As funding is provided for this programmatic need, the administration will assess the best option available to suit the college and community's needs. This project will expand the PWSC Warehouse Facility and build a 6,000 GSF facility with lab and classroom space for vocational training or share in the planning, design, and construction of a joint facility of similar size and amenities with the local school system to meet the workforce development needs of the local community.

UAA KPC Kachemak Bay Campus Technical Career Center

FY24-FY28 (GF: \$7,200.0, NGF: \$0.0, Total: \$7,200.0)

In 2010, the Kenai Peninsula College master plan identified the need for a technical career training facility on the Kachemak Bay Campus. This building would provide training to local students in high demand technical jobs supporting the maritime industry and construction trades. This project would construct a 10,000 GSF building with classrooms, high ceiling instructional laboratories with exterior roll-up doors, support service areas, and offices for faculty and staff.

UAF CTC/Fairbanks Campus Fire and Emergency Services Training and Education Facility

FY20-FY21 (GF: \$38,400.0, NGF: \$0.0, Total: \$38,400.0)

The proposed CTC/Fairbanks Campus Fire and Emergency Services Training & Education Facility will provide space to meet the current demand and future growth of the emergency services programs and continue to fulfill the university's missions and goals. The current facility is over 50 years old, is significantly undersized, and does not meet modern earthquake construction codes. The replacement facility is envisioned as a living laboratory for student emergency responders; attending classes and labs adjacent to an actual operating emergency services department. The facility space program allows for apparatus bays and support spaces for fire and EMS, firefighter/medic living quarters for on duty members, and training labs and classrooms for emergency services.

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UAF Troth Yeddha /Indigenous Studies Center: Park & Building

FY22-FY23 (GF: \$5,000.0, NGF: \$5,000.0, Total: \$10,000.0)

FY24-FY28 (GF: \$10,000.0, NGF: \$20,000.0, Total: \$30,000.0)

For many years, a place to commemorate and acknowledge Native Alaskan peoples has been envisioned at the University of Alaska Fairbanks (UAF). Moreover, the university is attended by increasing numbers of native students who have continually expressed interest in having a touchstone place on campus that is reflective of their peoples' culture and traditions. The College of Rural and Community Development, as well as the Interior Alaska Campus has steadily backed the concept of a location for gathering, reflection and cultural expression. Troth Yeddha' is that place. The project will build an International Center for Indigenous Studies on the Troth Yeddha' land east of the UAF Museum of the North.

UAF Community & Technical College (CTC) Aviation/Hangar Addition

FY24-FY28 (GF: \$13,000.0, NGF: \$0.0, Total: \$13,000.0)

Construct an 18,000 square foot addition to the CTC Hangar to support the growing aviation program.

UAF Kuskokwim Campus Consortium Learning Center

FY24-FY28 (GF: \$7,200.0, NGF: \$0.0, Total: \$7,200.0)

Kuskokwim Campus (KUC) envisions a 3,246 square foot expansion onto the front of this facility. Half would be a library expansion and the remaining half would be for a gift shop, offices, and conference room. This expansion would promote the university consortium collection.

UAS Egan Library / Cyril George Indigenous Knowledge Center (CGiKC)

FY22-FY23 (GF: \$0.0, NGF: \$2,250.0, Total: \$2,250.0)

Indigenous languages of Southeast Alaska – Tlingit, Haida and Tsimshian are critically endangered with fewer than 200 fluent speakers. This project aims to create an Indigenous Knowledge Center 1) to centralize and promote the quality and value of Alaska Native/Indigenous knowledge, 2) Develop an Elders and Indigenous Scholars in Residence program; 3) Enhance access and delivery of hybrid courses in AK Native Languages to preserve the continuity of endangered indigenous languages.

UAS Welding Lab Replacement

FY20-FY21 (GF: \$1,800.0, NGF: \$0.0, Total: \$1,800.0)

The Welding Lab was purchased and remodeled in 1980. The roof was replace in 1994, but other systems and components have not been upgraded and have reached the end of their service lives. The building should be replaced, as the cost of required upgrades to major building systems would significantly exceed the cost of relocating programs or constructing a new facility.

UAS Lakeside Access Improvements – Phase 1 – Lakeside Classroom

FY20-FY21 (GF: \$0.0, NGF: \$850.0, Total: \$850.0)

FY24-FY28 (GF: \$0.0, NGF: \$1,300.0, Total: \$1,300.0)

The purpose of this project is to create a strong connection between Auke Lake and the Juneau campus by improving visual, physical, and educational connections with Auke Lake. The need for this project is to take advantage of the excellent resources Auke Lake offers for educational engagement, cultural knowledge, recreational, activities, and marketing opportunities. Elements of Phase 1 include a lakeside classroom to support lakeside educational venues as well as year round recreational opportunities and social space for UAS students, staff and the community and an ADA accessible pathway

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UAS Center for Mine Training Portal

FY24-FY28 (GF: \$1,500.0, NGF: \$0.0, Total: \$1,500.0)

A new hands-on mine training portal in Juneau will complement existing facilities at the UAS Center for Mine Training, located at the UAS Technical Education Center in downtown Juneau. The proposed portal site, evaluated favorably by DOWL Engineers, is an existing quarry near Lemon Creek on lands owned by the City and Borough of Juneau. It has easy year-round access on an industrial road and yet it is in close proximity to available city resources. Lemon Creek Portal: The site will have a tunnel drilled approximately 750 feet into the rock face and have a protective covering extending out 40 feet from the rock face. This access point will be a replication of current mine portal entries. The lemon Creek portal will not be a functional mine it will be used exclusively for mine training and mine teaching.

Research Facilities

UAF Toolik Research Field Station: Classroom

FY22-FY23 (GF: \$0.0, NGF: \$3,000.0, Total: \$3,000.0)

Toolik Field Station (TFS) is a world renowned research facility with hundreds of scientific researchers in residence during the busy summer season. None of the existing facilities are suitable for use as a classroom and the addition of a classroom will allow seminars, small conferences and undergraduate field classes at TFS. This will add educational elements to the TFS mission and strengthen both the graduate and undergraduate research programs at UAF.

UAF Science, Teaching & Research Building

FY24-FY28 (GF: \$100,000.0, NGF: \$0.0, Total: \$100,000.0)

This project will construct approximately 100,000 square feet of new research and academic space to fill the critical needs of Fisheries and Ocean Sciences, Natural Resources and Museum Research. The facility will be constructed with labs, offices, classrooms and required infrastructure.

Student Life (Housing), Support, and Other Facilities

UAA Student Support Services and Student Union Building

FY22-FY23 (GF: \$79,000.0, NGF: \$0.0, Total: \$79,000.0)

FY24-FY28 (GF: \$93,000.0, NGF: \$0.0, Total: \$93,000.0)

The Student Administration and Student Services functions are currently dispersed on- and off-campus. Student advising, financial aid and enrollment services were moved off campus to the University Center in 2003 and is approximately 2.5 miles from the main campus. Other student services are offered from 2-3 locations on main campus. The current 45,000 GSF Student Union, constructed in 1977, was designed to support the Anchorage Community College, which had less than a half of the current UAA enrollment of over 10,000 students. This project will redesign much of the campus core to best support student activities and services provided to ensure student success. The initial phase will include the demolition of the Wells Fargo Sports Center. The cleared footprint will allow for the construction of a 73,000 GSF building for the relocation of the Student Support and Services "one-stop" offices from the University Center and for student administration and governance offices from the existing student union in the second phase. The third phase will renovate the existing 50,000 GSF of the Student Union building and construct an additional 65,000 GSF, doubling its space to approximately to accommodate student study areas, small group study and conference rooms, a larger conference center, commuter student lounge, multiple food service vendor spaces, dining facility with common dining room, and other student activity support offices and spaces identified as deficit, all to support a peak population of 15,000-18,000 students. The final phase will be to renovate or repurpose

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backfilled spaces in the Rasmuson Hall for further use. Disposition for University Center space vacated is not determined at this time, therefore backfill plan and cost is undefined.

UAA Administration, Alumni Relations and Visitor Center

FY24-FY28 (GF: \$33,000.0, NGF: \$0.0, Total: \$33,000.0)

The Administration, University Advancement, Alumni and visitor information functions are currently dispersed on- and off-campus and, in many cases, occupy prime academic space in the core of the campus. In order to better meet the needs of prospective, new and existing students, and the community, these offices should be consolidated into one facility that is conveniently located near a gateway to the campus that is easily identifiable to those coming to campus. This building is identified in the 2013 UAA Campus Master Plan and will allow space in the Administration/Humanities Building to be returned for academic programs. This project will construct a 50,000 GSF building on the southwest campus which will allow for the relocation of the Administration offices and the addition of offices for Alumni Relations, University Advancement, visitor information center and select campus services. This building should serve as a gateway to the campus for prospective and new students and visitors.

UAA Community Arena and Recreational Facility

FY24-FY28 (GF: \$70,000.0, NGF: \$0.0, Total: \$70,000.0)

Although the majority of UAA athletic programs have relocated to the new Alaska Airlines Center (AAC) in 2014, the UAA hockey team locker rooms and practice ice rink remain in the Wells Fargo Sports Center (WFSC) at the core of the UAA campus. The WFSC facility is designated for replacement by a new building accommodating student support services and an expanded student union in the 2013 Campus Master Plan. A new facility will be required to support the UAA hockey team prior to the demolition of the WFSC facility. The scope of this project will include a 4000-seat competition ice arena, as well as locker rooms, offices, and all support facilities necessary to support the UAA hockey and visiting teams. Provides appropriate student recreation amenities remaining in the WFSC not yet accommodated in the AAC. This project will also provide a 1000-car parking structure to support patrons attending the new arena and replenish displaced parking capacity currently supporting the Alaska Airlines Center due to construction footprint of this project.

UAA Mat-Su Student Housing

FY24-FY28 (GF: \$12,000.0, NGF: \$0.0, Total: \$12,000.0)

There is a need and demand for such housing at the campus. Mat-Su College offers certificate programs that are not available anywhere else in Alaska, thus creating the potential to attract students to these high demand job programs. However, without on-campus housing, these students are unable to pursue their college goals in Alaska. Housing helps to ease the transition of local high school students to college. Student housing opens up the opportunity for prospective students who want to stay in the Mat-Su region to attend college. The college can also serve as an intermediate step in the transition from the village to the larger institution at UAA. This project would construct a 35,000 GSF facility providing space for 96 student beds and living space for three resident assistants. The 24 units will consist of four-person apartments with shared kitchen, living room and two students each sharing a bathroom. The facility will have office space for the three resident assistants, a residence housing coordinator and an administrative assistant. Student amenities include two lounges, computer room, laundry room, mailroom, and storage. The attached commons area will provide a fitness room and seating for 100 where various student activities can be held.

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UAF Student Recreation Center Expansion

FY22-FY23 (GF: \$500.0, NGF: \$0.0, Total: \$500.0)

FY24-FY28 (GF: \$11,500.0, NGF: \$0.0, Total: \$11,500.0)

This project will begin to alleviate the overcrowding and scheduling issues in the too small student recreation center. The expanded facility will provide interior recreation for Fairbanks students, staff, faculty and the community.

UAF Campus (Undergraduate & Graduate) Housing Project

FY22-FY23 (GF: \$6,500.0, NGF: \$0.0, Total: \$6,500.0)

FY24-FY28 (GF: \$65,000.0, NGF: \$0.0, Total: \$65,000.0)

Adequate upperclassmen/graduate housing on the UAF campus is minimal. Students frequently move off campus in search of better accommodations. Some leave UAF altogether. New housing aimed at keeping students on campus may result in higher retention rates. As part of the "Student Life: Transforming the UAF Experience" project, UAF proposes to develop new student housing units. This initial housing project will be the first phase in a plan to increase the overall quality and quantity of student living options (Fairbanks Campus housing stock). Procurement method is yet to be determined but may include exploring a Public Private Partnership option.

UAF Athletics & Recreation: Patty Center Complex Connector

FY24-FY28 (GF: \$20,000.0, NGF: \$0.0, Total: \$20,000.0)

This project is the first step to connect the Patty Center, the ice arena and the student recreation center with an indoor, usable common space for student gathering and instruction.

UAS Student Union

FY20-FY21 (GF: \$10,000.0, NGF: \$10,000.0, Total: \$20,000.0)

A new UAS Student Union will significantly improve the Juneau Auke Lake Campus environment and enable the university to continue improvements in student recruitment, retention, and completion. It will include a new food service facility, a multipurpose assembly and meeting space, and space for student support services. It will provide expanded space and a warm, inviting atmosphere for the UAS Native and Rural Student Center. The Student Union will help fulfill the goals of the UAS Campus Master Plan (2012) which seeks to support and enhance community engagement and provide venues for music, dance, theatrical, and other cultural and artistic performances.

UAS Facility Services Building Replacement - Juneau

FY20-FY21 (GF: \$500.0, NGF: \$0.0, Total: \$500.0)

FY22-FY23 (GF: \$8,500.0, NGF: \$0.0, Total: \$8,500.0)

The existing Facilities site in Juneau began as a converted residential building and has been supplemented with temporary and marginal improvements for the last thirty years. This project would demolish a portion of the Facilities complex and construct replacement shop, storage and office space on the current site.

UAS Egan Library Enhancements

FY22-FY23 (GF: \$1,600.0, NGF: \$0.0, Total: \$1,600.0)

As a result of the UAS 2012 Campus Masterplan a study of the space use and opportunities for better utilization of the Egan Library was conducted. A concurrent trend relates to the way today's students absorb and retain information differently than those of previous generations. Many prefer more collaborative and

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hands on learning styles. These two phenomenon have a large impact on the function and space utilization of University Libraries, and many institutions are changing their library culture to create learning commons to best serve their students. This project represents a series of changes in the physical space of the Egan Library that were recommended by this study.

UAS Banfield Hall Conversion

FY20-FY21 (GF: \$500.0, NGF: \$500.0, Total: \$1,000.0)

FY22-FY23 (GF: \$500.0, NGF: \$500.0, Total: \$1,000.0)

FY24-FY28 (GF: \$250.0, NGF: \$250.0, Total: \$500.0)

With the completion of a new freshman dorm in 2014, Banfield Hall has been repurposed as second year student housing. These improvements will be needed to renew the existing facility so that necessary features are replaced by the end of their useful life. Anticipated improvements include toilet room finishes and fixtures. A faculty-in-residence suite will be added. Kitchens will be upgraded and expanded. Room fixtures will be refurnished and necessary technology and lighting upgrades will take place. New plumbing cases will be constructed vertically through the three resident floors.

UAS Auke Lake Student Study Spaces

FY22-FY23 (GF: \$500.0, NGF: \$0.0, Total: \$500.0)

FY24-FY28 (GF: \$500.0, NGF: \$0.0, Total: \$500.0)

The original five academic building on the Auke Lake Campus were built with little consideration of the need for student social spaces. Additionally, the five buildings, despite being close together, were only connected by exterior sidewalks and decks. Enclosing the spaces between buildings renders circulation more pleasant and the connections themselves can serve not just as corridors but as social meeting areas.

UAS Lakeside Access Improvements - Phase 2 - Floating Trail & Dock

FY22-FY23 (GF: \$0.0, NGF: \$800.0, Total: \$800.0)

FY24-FY28 (GF: \$0.0, NGF: \$1,300.0, Total: \$1,300.0)

The purpose of this project is to create a strong connection between Auke Lake and the Juneau campus by improving visual, physical, and educational connections with Auke Lake. This project will take advantage of the excellent resources Auke Lake offers for educational engagement, cultural knowledge, recreational activities, and marketing opportunities. Elements of Phase 2 include: a floating trail from the existing dock to the Phase 1 dock, and a stairway from the campus corridor to the dock.

UAS Auke Lake Cultural Center

FY24-FY28 (GF: \$26,000.0, NGF: \$0.0, Total: \$26,000.0)

Cultural experience is a vital part of student life at UAS but the Juneau campus has few venues for the presentation and performance of cultural events. This facility will promote the arts and cultures of all peoples and cultures through education, cultural preservation, creative expression and economic development. Currently, the UAS campus has no dedicated space for performances or large lectures or presentations. The largest lecture or performance seating capacity is currently the Egan Lecture Hall, which seats only 150 people.

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UAS Auke Lake Field House

FY24-FY28 (GF: \$11,000.0, NGF: \$0.0, Total: \$11,000.0)

The UAS 2012 Campus Master Plan found that the greatest current and future space deficiency for the Juneau campus is the lack of recreational opportunity. This project would construct a 30,000 square foot indoor recreational surface for student life and physical education classes.

Infrastructure

UAA Master Plan Circulation Improvements

FY20-FY21 (GF: \$5,500.0, NGF: \$0.0, Total: \$5,500.0)

One of the primary results of the 2013 Campus Master Plan investigation was identifying the need for improved vehicular, bicycle, and pedestrian access, egress, and circulation around the perimeter and within the UAA main campus. Several UAA, Municipality of Anchorage (MOA), and AKDOT&PF projects either in planning or under construction will impact traffic patterns at UAA and within the U-MED district. It will be to UAA's benefit to construct road and pedestrian improvements in conjunction with these traffic projects in order to improve circulation within UAA and the U-MED district, and to concurrently secure MOA approval for the projects. This project will improve vehicle, bicycle and pedestrian access, egress, and circulation within the campus and provide a safer environment for the students, staff, faculty, and community members. Each of these road and trail improvements will be constructed to MOA standards and will include all appropriate curbs, gutters, sidewalks, landscaping, lighting, traffic markings, signs, and other controls as necessary.

UAA MAPTS Kenai Ground Water Contamination Mitigation

FY20-FY21 (GF: \$2,020.0, NGF: \$0.0, Total: \$2,020.0)

FY22-FY23 (GF: \$20.0, NGF: \$0.0, Total: \$20.0)

FY24-FY28 (GF: \$50.0, NGF: \$0.0, Total: \$50.0)

The Kenai Mining and Petroleum Training Services (MAPTS) site, approximately 0.75 miles from the KPC Kenai River Campus, was used for fire training from approximately 1980 to 1988. The fire suppressants used during training at the site included aqueous film forming foams, which contain PFOA and PFOS. These are emerging contaminants that Alaska Department of Environmental Conservation (ADEC) became aware of in 2012 while remediation work was being conducted by UAA at the MAPTS site for diesel contaminants. At the request of ADEC, initial water samples were collected from the remediation site on May 20, 2013. The PFOS concentration in the water samples from the excavation exceeded the ADEC cleanup criterion. Based on these results, new monitoring wells have been drilled and samples collected and tested from the new and existing wells from September 2013 to present. Although the scope of this project will continue to be refined as investigations continue, the projected costs currently include: funding required to establish additional monitoring wells to delineate the plume; annual costs for monitoring and testing each well for the next five years; and mitigation measures which could include extension of city water lines to affected neighboring properties.

UAA Kodiak Entrance Road Realignment and Exterior Lighting

FY20-FY21 (GF: \$6,000.0, NGF: \$0.0, Total: \$6,000.0)

The Kodiak Campus is comprised of three main buildings and a couple of small outbuildings. The original Benny Benson Building and the Vocational Technology Building are connected and have been expanded through a series of additions. They were located on the south side of the current entrance road and parking lot. In 1982, the Adult Learning Center (now Campus Center) was built and placed on the north side of the road

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across from the Benny Benson Building. As the student population has increased, so has the traffic entering the campus, creating a hazard for students crossing between the buildings divided north and south of the campus. This project will redesign the entrance on Benny Benson Drive and relocate the circulation road to the exterior of the buildings allowing the center of campus to be reclaimed as a common green space, pedestrian crossing and as a possible future building site. This project will include renewal of exterior lighting for campus entryways, parking lots and buildings, addition of security cameras, and repaving of parking lots.

UAA Mat-Su Roads, Circulation, & Parking Improvements

FY22-FY23 (GF: \$2,000.0, NGF: \$0.0, Total: \$2,000.0)

This project will build a road with pedestrian sidewalk from the southern Snodgrass Hall SE parking lot, northeast across a ravine, and connect to the existing parking and circulation to the east of the Glenn Massay Theater. This loop will provide better flow around campus and emergency vehicle ingress/egress. The Matanuska-Susitna Borough (MSB) has potential plans to develop connecting local roads to the north between the water tower, Trunk Road access, the south entrance to the borough landfill, and neighborhood streets. This requirement should be reassessed should MSB take that action first. Additionally, with the construction of the Glenn Massay Theater, this project will assess parking utilization before, during and after class hours to determine the optimal quantity of parking necessary, and develop and construct this parking requirement. Also, this project would provide any necessary walkways, curbing, signage, lighting, security gates and cameras, etc. to improve and complete vehicular and pedestrian circulation to and around the campus.

UAF Coal Ash Disposal Site (CHP)

FY20-FY21 (GF: \$1,000.0, NGF: \$0.0, Total: \$1,000.0)

Currently, UAF generates approximately 20 cubic yards of coal ash daily and disposes of the ash from its coal-fired, combined heat and power plant in an ADEC-approved site on campus. The permit for this site expires 30 June 2019 and UAF is actively planning for a new disposal or beneficial use site. Options include contracting with other organizations to receive the coal ash, approval of a beneficial use site on or off UA lands, and/or developing a holding or permitted landfill site on UA lands. With more stringent coal ash regulations taking effect in 2018, a new site may have to be lined and monitored.

UAF Core Campus Parking Garage

FY24-FY28 (GF: \$4,350.0, NGF: \$4,000.0, Total: \$8,350.0)

The construction of a parking garage on campus will provide consolidated parking, open up valuable land for future buildings, improve the appearance of the lower campus entry, and provide convenient, short-term parking for visitors and part-time students.

UAS Juneau Campus Pavement Replacement

FY22-FY23 (GF: \$500.0, NGF: \$0.0, Total: \$500.0)

FY24-FY28 (GF: \$700.0, NGF: \$0.0, Total: \$700.0)

Constructed in the mid-1980's, many of the paved surfaces around the University of Alaska Southeast (UAS) Juneau campus are either beginning to fail, or nearing the end of their useful lives. In order to set priorities for repairing the numerous pavement and drainage deficiencies, UAS contracted DOWL HKM and performed a preliminary investigation of the entire campus. Based on this analysis most of those areas identified as "immediate" needs were repaired during the 2015 construction season. This request will address, in two

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phases, those areas identified as needing replacement based on priorities established in the 2015 condition report.

Land, Property, and Facilities Acquisitions

UAA Adjacent Land and Property Acquisitions

FY20-FY21 (GF: \$0.0, NGF: \$2,000.0, Total: \$2,000.0)

In the 2013 UAA Campus Master Plan, section 3.5, it is proposed that the university seek to acquire parcels of property that are currently for sale and/or contiguous with the current campus for future university development.

UAA Kodiak CTC Skills Warehouse Acquisition

FY20-FY21 (GF: \$0.0, NGF: \$2,400.0, Total: \$2,400.0)

Kodiak College developed plans and pursued construction of a capital project to renew and expand the Vocational Technology Building on KOC main campus to a 24,180 GSF career and technical education center for an estimated cost of \$24,300,000. This project was conceived and presented early on as three phases, but in FY14 because of mounting need was consolidated into one project. Concurrently, the college pursued a leasing option to meet the immediate need in FY16. They obtained an industrial space on the outskirts of town, 3,000 NSF of approximately 7,500 GSF metal building. The space was minimally remodeled to support a classroom, restroom and welding lab space, along with code and safety requirements. The welding program is a huge success and local industry clamors for other programs supporting the maritime and construction industries like millwright, refrigeration/HVAC, carpentry and electrical skills. The owner may be amenable to selling the building and KOC would coordinate phase out of other tenant operations and phase in approved technical programs, rotating cyclically based on local population and job skills demand. Purchase of this facility will replace requirement for constructing the CBR #UAA00231 Kodiak Career & Technical Center on the main campus.

UAA KPC Kachemak Bay Campus Property Acquisition

FY20-FY21 (GF: \$0.0, NGF: \$1,800.0, Total: \$1,800.0)

KPC Kachemak Bay Campus has extremely limited real estate assets. Future campus facilities and infrastructure needs will be severely hampered by the limited real estate holding. Any and all adjoining parcels should be considered for acquisition as they become available or sooner. The adjacent property directly to the east is a restaurant and motel with historical fire hazard concerns that is less than 10 FT from the property line and less than 20 FT between buildings. As the structures on these parcels are of limited value or present a possible liability to the university, their removal by the current owners should be considered a part of the purchase agreement. Due to decreased property values because of the recession, purchasing surrounding parcels in the near future is recommended.

UAA Kenai River Campus Property Acquisition

FY20-FY21 (GF: \$0.0, NGF: \$2,235.0, Total: \$2,235.0)

Kenai Peninsula Campus is quickly becoming landlocked with fewer immediate opportunities to expand contiguously from the existing campus. The Kenai River forms the eastern boundary. Kalifonsky Beach (K-Beach) elementary school bounds to the west of the new student housing facility. There are open parcels to the north for acquisition.

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UAF Early Childhood Education and Childcare Center

FY22-FY23 (GF: \$0.0, NGF: \$850.0, Total: \$850.0)

The lab school is licensed by the State of Alaska Department of Health and Social Services to serve 30 children, ages 36 months through six years. The program participates with several agencies, including Alaska Native corporations that fund childcare for some of the families enrolled. In cooperation with the Early Childhood Education program at UAF CTC, the lab school provides university students with observation and practicum experiences. The primary purpose of the lab school is to provide rich observation and practicum experiences for university students studying early childhood education.

UAS Natural Science Research Facility - Sale Preparation

FY20-FY21 (GF: \$0.0, NGF: \$500.0, Total: \$500.0)

UAS acquired what had been the Alaska Department of Environmental Conservation laboratory in 2004. The property has inadequate parking to meet current zoning codes. UAS currently leases parking spaces on nearby private property, which will expire in 2020. This project will purchase adjacent land to provide all of the zoning required parking for the property. UAS is planning to sell this property once programs are moved into the newly acquired Auke Bay Marine Station property. This project will be required before the property can be sold.

Research for Alaska

UAF Sustaining USArray Capabilities in Alaska

FY20-FY21 (GF: \$5,000.0, NGF: \$12,500.0, Total: \$17,500.0)

This initiative will fundamentally change Alaska's ability to assess and prepare for earthquakes, including those that cause tsunamis. In September 2017, the National Science Foundation completed installation of the \$50 million USArray network of seismic monitoring stations. The Alaska Earthquake Center (AEC) is integrating USArray with the state's existing seismic network to provide high accuracy earthquake assessments across all of mainland Alaska including for the first time: the North Slope, Western Alaska, and Southeast. Data and products served by the center help determine building codes, insurance rates, tsunami evacuation zones, emergency response plans, and the design of every major infrastructure project in Alaska. A variety of instrumentation now piggybacking on USArray stations has improved abilities to monitor weather patterns, forest fire conditions, flying conditions, and global nuclear tests.

The USArray project will end in 2019 and the network is scheduled to be removed for use elsewhere. At that time, all of these capabilities will stop.

A vigorous campaign is underway to secure federal support to retain and integrate 80 of the 193 new USArray sites for long-term use at a cost of \$3.5 million per year (detailed scope and budget at <http://earthquake.alaska.edu/usarray-sustainability>). Federal agencies are currently in discussion about specific objectives and costs. University capital funding in the first few years will catalyze long-term federal support and ensure a lead role for the state and university. This will be achieved by (i) characterizing the behavior of faults and estimating ground shaking for industry and community stakeholders, and (ii) owning a strategic subset of the field stations and piggybacked instrumentation.

UAF Alaska Operating Environment Data Center

FY20-FY21 (GF: \$750.0, NGF: \$350.0, Total: \$1,000.0)

UAF proposes to meet the needs of the state of Alaska in providing a long-term stable infrastructure to archive a wide array of field and laboratory data. As scientific urgency drives our research endeavors to collect more observations at greater frequencies and increased numbers of sites, we are compelled to develop

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new techniques to analyze these massive data sets. Additionally, the realization of the value of well-documented data for application in new and different analyses places utmost priority upon data preservation, stewardship and access. This not only places great responsibility upon individual scientists and agencies, it elevates the collective responsibility of all engaged in research to strive to garner the greatest value from our investments into observations and monitoring. Our university system needs an Integrated Data Archive to provide the archiving capability and the tools needed to meet these national priorities. The wide range of expertise at UAF provide many opportunities for a "value added" function through fusion and synthesis of the archived products. Most recently, there have been efforts to focus on data integration, collection, and archival. The U.S. Arctic Research Plan (2013) charged all agencies to immediately "demonstrate new and updated cyberinfrastructure tools to enhance data integration and application and identify opportunities for sharing of technology and tools among interagency partners". Our university needs the archiving capacity to ensure our data is preserved for future applications and analyses to meet the needs of the State and our nation.

UAF Revitalizing Alaska Native Languages (RANL)

FY20-FY21 (GF: \$250.0, NGF: \$250.0, Total: \$500.0)

Alaska's twenty Native languages, spoken nowhere else in the world, face a difficult battle for future survival and represent a unique cultural heritage for Alaska. The knowledge embedded in Alaska Native languages spans a broad spectrum of human experience, helping indigenous peoples to understand the changing environment and how to adapt to those changes. In 2012 the Alaska Legislature established the Alaska Native Language Preservation and Advisory Council (ANLPAC), and its first report issued in 2014 includes recommendations for statewide language revitalization efforts. Leaders of language revitalization initiatives across Alaska welcomed this formal recognition and acknowledgement of the long-standing need to increase support. This request follows the ANLPAC framework and will fund a conference focused on indigenous language revitalization to establish needs and plan future action. This effort will emphasize language immersion education by providing seed funding for planning "language nests" (pre-school programs), language immersion schools, in addition to funding a proposal process through which language communities can start specific projects. Additionally, this will allow the Alaska Native Language Center and the Alaska Native Language Archive at UAF to further organize and increase access to teaching materials and other existing resources to benefit regional language programs.

Academic Equipment

UAA College of Engineering Materials Testing Lab Upgrades

FY20-FY21 (GF: \$350.0, NGF: \$0.0, Total: \$350.0)

The College of Engineering - Engineering and Industry Building was constructed in 2014/2015 and first floor was developed as a series of easily accessible, mutually supporting laboratories for the mechanical, electrical and civil engineering curriculums. Some equipment was relocated from the older engineering building (now the Engineering and Computation Building (ECB)), however we allocated space for state-of-the-art lab equipment that was not owned by the university previously and identified as a requirement for program accreditation. The material properties lab requires two testing machines: one (1) single axis and one (1) multi-axial testing machine to perform tension, compression, shear, and bending tests applicable to materials used in construction and manufacturing today.

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UAA Consortium Library - Library Materials for UA

FY20-FY21 (GF: \$800.0, NGF: \$0.0, Total: \$800.0)

FY22-FY23 (GF: \$300.0, NGF: \$0.0, Total: \$300.0)

With the reduction in the Consortium Library's general funds of \$1,050,853 between FY15 and FY16, the library's capacity to acquire and share print and electronic books is diminishing. The Library is also faced with a 3-5% annual inflationary fixed cost increase in the price of scholarly monographic materials, which currently average about \$93.00 per title. The inflationary increases further erode the Library's capacity to acquire and share the latest scholarly publications.

UAF e-Learning Recording Capabilities, ADA Accessibility & Instructional Classroom Technology

FY22-FY23 (GF: \$2,000.0, NGF: \$0.0, Total: \$2,000.0)

eLearning Recording Capability, Video "One-Button" Studio & Accessibility Stations: \$425,000

This request will reduce barriers for students and instructors as part of the online learning experience. As the demand for online programs and connectivity continues to grow, investment in this area is a strategy to help bolster student enrollment and retention.

- Sound Isolation Booth (3): \$75,000
A sound isolation booth reduces barriers for students and instructors to develop and record quality audio content. These retro-fit sound booths will also allow students and instructors to conveniently host and fully participate in online synchronous sessions.
- One Button Studios (5): \$250,000
The "one button studio" allows instructors and students to produce quality video media content on their own with the click of a button. These walk up stations reduce barriers of access and reduce turnaround time between planning and publication thereby increasing instructor presence, student participation and engagement.
- Accessibility (ADA) Stations (5): \$100,000
Accessibility stations serve users with diverse abilities and inform content creators about diverse and alternative modes of access and can address compliance issues. Station hardware and software provides braille, alternate document formatting and magnification, keyboard/mouse alternatives, speech-input software, and more.

Instructional Classroom Technology Upgrades: \$1,575.0

As the need for personalized learning increases and the pervasiveness of mobile devices continues to escalate; a clear transformation that integrates instructional and learning technologies is required to provide a real-world context for student success. UAF is striving to provide current, simple to use, technology enriched learning spaces to enable faculty to engage students and their personal mobile devices with a media-rich learning experience. Keeping these learning spaces functional and up-to-date to deliver a consistent, frustration-free experience for instructors, will encourage technology enhanced teaching practices that more fully engage today's students and drive student success.

This request will create or upgrade 30-40 digital learning classrooms throughout the UAF campuses.

Instructional and digital learning technologies include presentation and distance delivery, video conferencing, lecture capture, streaming and mobile technologies.

Video conferencing is proven to be a highly effective instructional technology at UAF and facilitates learning and teaching throughout the state and in rural communities. Video conferencing provides a close

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approximation of the human one-to-one experience and is essential in UAF degree programs utilizing collaborative teaching across campuses. With the increase in collaborative teaching the demand for video conferencing enabled learning spaces has eclipsed the existing capacity. Creating additional video conference enabled classrooms will ease the tension for access to these high-demand learning spaces.

UAS Smart Classrooms Juneau Campus

FY22-FY23 (GF: \$100.0, NGF: \$0.0, Total: \$100.0)

Smart / Flex classrooms give professors more options for engaging with students in the classroom and on-line.

University of Alaska
FY2019 Deferred Maintenance (DM) and Renewal & Repurposing (R&R)

Distribution Methodology
(Based on Age and Value of Facilities)

	Location	# of Bldgs	Average Age (years)	Weighted Avg. Age (years)	Gross Area (sq. feet)	Adjusted Value (thousands)	Index (Age and Adjusted Value)	Dist. % *	DM Model
Anchorage Campus	<i>Anc.</i>	69	25.7	18.7	3,204,421	1,182,062.7	22.5	25.7%	12,825.0
UAA Community Campuses		30	23.3	23.1	449,500	223,916.2	5.2	5.9%	2,968.0
<i>Kenai Peninsula College</i>	<i>Soldotna</i>	8	26.8	22.7	158,446	76,904.1			
<i>Kachemak Bay</i>	<i>Homer</i>	3	17.0	29.7	25,897	12,580.0			
<i>Kodiak College</i>	<i>Kodiak</i>	5	39.8	40.5	45,049	23,120.9			
<i>Matanuska-Susitna College</i>	<i>Palmer</i>	8	23.9	23.0	152,781	78,169.7			
<i>Prince Wm. Sound College</i>	<i>Valdez</i>	6	7.5	10.3	67,327	33,141.5			
	UAA Total	99	24.9	19.2	3,653,921	1,405,978.9	27.7	31.6%	15,793.0
Fairbanks Campus	<i>Fbks.</i>	246	36.9	34.9	3,245,648	1,561,089.3	48.7	55.4%	28,107.0
UAF Community Campuses (CRCD)		35	32.1	27.6	381,183	162,822.3	4.3	4.9%	2,058.0
<i>Bristol Bay Campus</i>	<i>Dillingham</i>	3	15.0	23.2	20,217	14,050.0			
<i>Chukchi Campus</i>	<i>Kotzebue</i>	1	40.0	40.0	10,362	9,273.5			
<i>Community & Technical College</i>	<i>Fbks.</i>	4	38.5	26.2	226,053	41,154.7			
<i>Interior Alaska Campus</i>	<i>Various</i>	5	28.2	35.2	29,111	21,915.6			
<i>Kuskokwim Campus</i>	<i>Bethel</i>	7	32.3	31.0	51,774	43,296.6			
<i>Northwest Campus</i>	<i>Nome</i>	14	35.9	37.8	20,758	18,310.9			
<i>Rural College</i>	<i>Fbks.</i>	1	13.0	13.0	22,908	14,821.0			
	UAF Total	281	36.3	34.1	3,626,831	1,723,911.6	53.0	60.3%	30,165.0
Southeast Campus	<i>Juneau</i>	32	25.5	20.0	449,877	188,780.1	4.0		
UAS Community Campuses		5	13.4	8.2	115,908	49,471.8	0.5		
<i>Ketchikan Campus</i>	<i>Ketchikan</i>	4	15.8	14.1	47,850	25,946.2			
<i>Sitka Campus</i>	<i>Sitka</i>	1	4.0	4.0	68,058	23,525.5			
	UAS Total	37	23.9	17.6	565,785	238,251.9	4.5	5.1%	2,551.0
Statewide	<i>Various</i>	9	37.7	35.6	220,050	82,974.8	2.6	3.0%	1,491.0
	SW Total	9	37.7	35.6	220,050	82,974.8	2.6	3.0%	1,491.0
	UA Total	426	32.6	26.2	8,066,587	3,451,117.2	87.8	100.0%	50,000.0

Facility data from 2016 Facilities Inventory

*This distribution is based on the individual building age and adjusted value by campus.

University of Alaska
 Capital Budget Request vs. State Appropriation
 FY2009-FY2018
 (in thousands of \$)

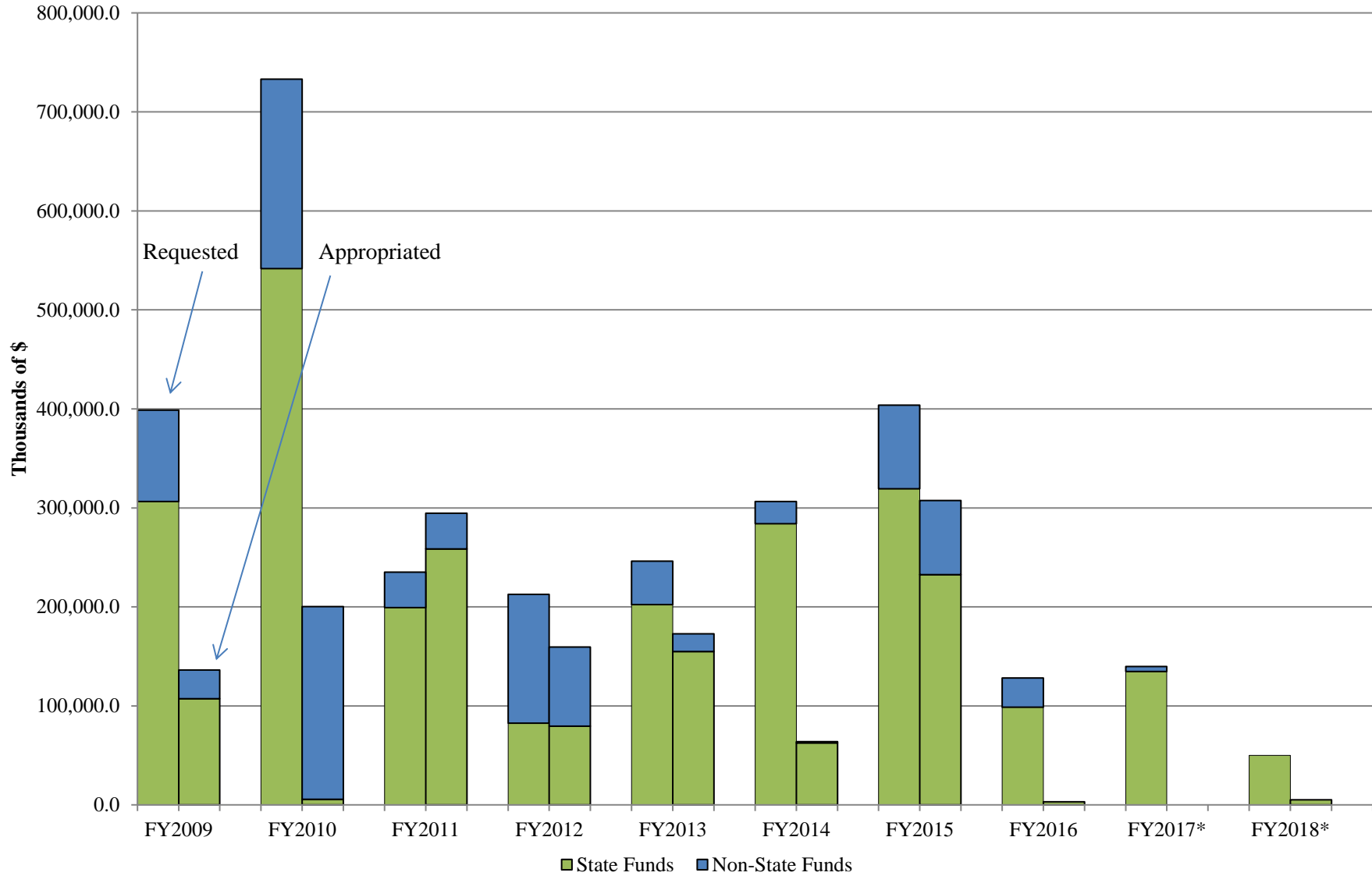
Request	Renewal and Repurposing	Add/Expand	New Facilities	Equipment	Other¹	Total
FY2009	114,000.0	2,000.0	163,870.0	26,000.0	550.0	306,420.0
FY2010	204,130.0		194,495.0	90,000.0	53,150.0	541,775.0
FY2011	100,000.0		99,375.0			199,375.0
FY2012	70,433.0				12,092.5	82,525.5
FY2013	187,500.0				14,700.0	202,200.0
FY2014	162,500.0		108,900.0		12,500.0	283,900.0
FY2015	37,500.0		273,900.0		7,900.0	319,300.0
FY2016	50,000.0		35,550.0		13,000.0	98,550.0
FY2017	100,000.0		34,800.0			134,800.0
FY2018	50,000.0					50,000.0
Total	1,076,063.0	2,000.0	910,890.0	116,000.0	113,892.5	2,218,845.5
10 yr. Avg.	107,606.3	200.0	91,089.0	11,600.0	11,389.3	221,884.6

Approp.	Renewal and Repurposing²	Add/Expand	New Facilities	Equipment	Other¹	Total
FY2009	45,822.6		61,300.0		125.0	107,247.6
FY2010	3,200.0		2,500.0			5,700.0
FY2011	43,694.7		213,896.7	400.0	558.5	258,550.0
FY2012	39,500.0	2,000.0	35,800.0		2,204.0	79,504.0
FY2013	37,950.0		108,900.0		8,040.0	154,890.0
FY2014	30,000.0		30,000.0		2,588.7	62,588.7
FY2015	19,273.0		212,600.0	120.0	450.0	232,443.0
FY2016	3,000.0					3,000.0
FY2017						
FY2018	5,000.0					5,000.0
Total	227,440.3	2,000.0	664,996.7	520.0	13,966.2	908,923.3
10 yr. Avg.	22,744.0	200.0	66,499.7	52.0	1,396.6	90,892.3

¹ Includes research and other capital funding requests or appropriations

² Funds reallocated from the state appropriated portion of the operating budget for: Strategic Investments (SI): FY17 - \$10.0 million; FY18 - \$5.0 million, and non-state; Natural Resource Funds (NRF): FY17 - \$269.3 thousand; FY18 - \$300.4 thousand.

**University of Alaska
Capital Request and Appropriation Summary
FY2009-FY2018**



*Funds reallocated from the state appropriated portion of the operating budget for: Strategic Investments (SI): FY17 - \$10.0 million; FY18 - \$5.0 million, and non-state; Natural Resource Funds (NRF): FY17 - \$269.3 thousand; FY18 - \$300.4 thousand.

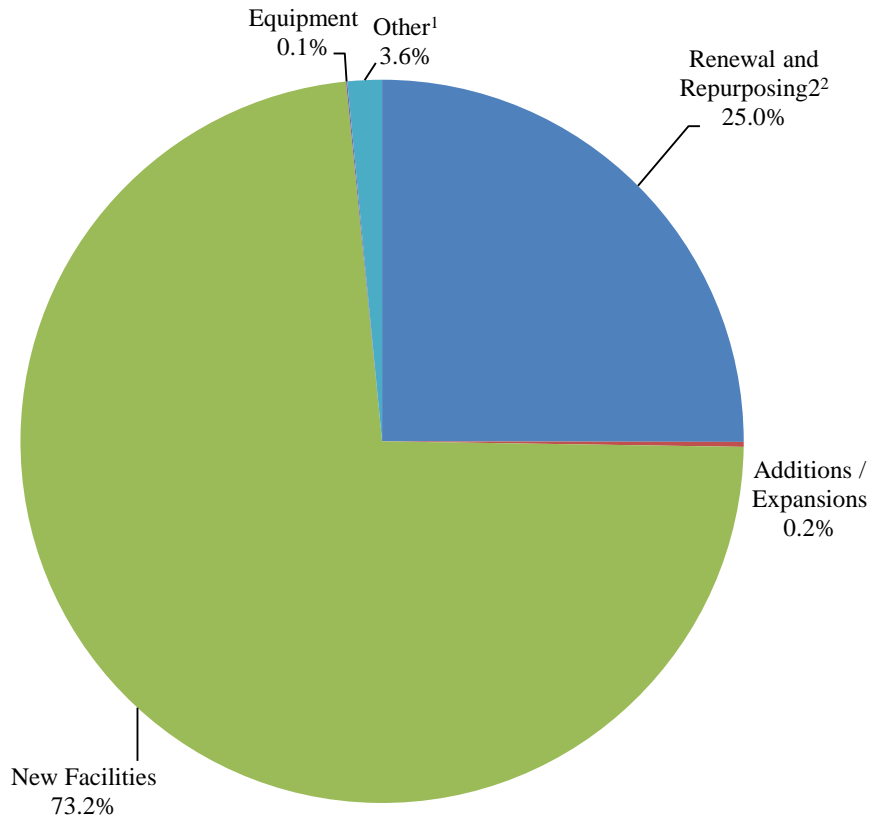
University of Alaska
State Appropriation Summary by Category
FY2009-FY2018
(in thousands of \$)

Campus	Location	Renewal and Repurposing ²	23.5%	Additions / Expansions	New Facilities	41.8%	Equipment	Other ¹	17.2%	Total	36.7%
Anchorage Campus	Anchorage	53,400.1	23.5%		278,200.0	41.8%		2,400.0	17.2%	334,000.1	36.7%
Kenai Peninsula College	Soldotna	4,216.6	}	8.1%	32,300.0	}	8.8%	50.0	}	36,566.6	}
	Kachemak Bay Homer	795.8			2,750.0			100.0		3,645.8	
Kodiak College	Kodiak	2,192.4	}	8.1%	23,500.0	}	8.8%		}	27,485.6	}
Matanuska-Susitna College	Palmer	3,985.6			300.0			7,507.9			
Prince Wm. Sound College	Valdez	7,207.9									
UAA		71,798.5	31.6%		337,050.0	50.7%		2,550.0	18.3%	411,398.5	45.3%
Fairbanks Campus	Fairbanks	104,257.3	}	46.0%	323,946.7	}	48.7%	10,728.3	}	438,932.3	}
Fairbanks Campus	Juneau										
Fairbanks Campus	Palmer	300.0								300.0	
Fairbanks Campus	Seward										
Bristol Bay Campus	Dillingham	193.0						16.8		209.8	
Chukchi Campus	Kotzebue										
Community & Technical College	Fairbanks	12,863.1						44.9		12,908.1	
Interior Alaska Campus	Tok	140.0								140.0	
Interior Alaska Campus	Fort Yukon	7.3	}	9.2%		}	1.0%		}	7.3	}
Interior Alaska Campus	Fairbanks	47.7			11.4			59.1			
Kuskokwim Campus	Bethel	3,042.5						12.9		3,055.4	
Northwest Campus	Nome	4,433.0						5.1		4,438.1	
Rural College	Various	169.0						53.5		222.5	
UAF		125,453.0	55.2%		323,946.7	48.7%		10,872.8	77.9%	460,272.5	50.6%
Juneau Campus	Juneau	23,870.9	10.5%	2,000.0	100.0%	4,000.0	0.6%	520.0	100.0%	394.0	2.8%
Ketchikan Campus	Ketchikan	2,099.8	}	1.4%		}	0.4%	30.4	}	2,130.2	}
Sitka Campus	Sitka	1,040.2			30.4			1,070.6			
UAS		27,010.9	11.9%	2,000.0	100.0%	4,000.0	0.6%	520.0	100.0%	454.7	3.3%
Statewide	Fairbanks	3,178.0	}	1.4%		}	0.4%	88.7	}	3,266.7	}
Systemwide	Systemwide										
SW		3,178.0	1.4%					88.7	0.6%	3,266.7	0.4%
UA Grand Total		227,440.3	100.0%	2,000.0	100.0%	664,996.7	100.0%	520.0	100.0%	13,966.2	100.0%
% of Total			25.0%		0.2%		73.2%		0.1%		1.5%

¹ Includes research and other capital appropriations

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State Appropriation Summary by Category FY2009 - FY2018



New Facilities and Major Expansions

UAA

- Kachemak Bay Campus New Facility (Reappropriation FY10, FY11) \$2,750.0
- Health Sciences Building (FY09) \$46,000.0
- Engineering Building (FY11, FY13, FY14, FY15) \$123,200.0
- Kenai Peninsula College Campus Student Housing (FY11, FY12) \$17,800.0
- Kenai Peninsula College Campus Career & Technical Education Center (FY11) \$14,500.0
- Matanuska-Susitna Campus Valley Center for Art & Learning (FY11) \$23,500.0
- Alaska Airlines Center (FY09, FY11, FY12) \$109,000.0

UAF

- Engineering Building (FY11, FY13, FY14, FY15) \$73,946.7
- Life Sciences Classroom and Laboratory Facility (FY11) \$88,000.0
- Heat & Power Plant Major Upgrade (FY15) \$162,000.0

UAS

- Banfield Hall Dormitory Addition (FY12, FY13) Total: \$6,000.0

¹ Includes research and other capital appropriations.

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