

(\$ in thousands)

| Project Title   | Priority Ranking | Funding Source | Project Requests for State Funds |             |             |
|---|------------------|----------------|----------------------------------|-------------|-------------|
|   |                  |                | 2024                             | 2026        | 2028        |
| Higher Education Asset Preservation and Replacement (HEAPR)   | 1                | GO             | \$ 300,000                       | \$ 0        | \$ 0        |
| Agricultural Research and Education Complex (FAARM) - Phase 1 | 2                | GO             | \$ 60,000                        | \$ 0        | \$ 0        |
| Academic Health Sciences - Design                             | 3                | GO             | \$ 15,000                        | \$ 0        | \$ 0        |
| Food Science and Nutrition Renovation                         | 4                | GO             | \$ 44,000                        | \$ 0        | \$ 0        |
| Heating Plant and Critical Utility Infrastructure             | 5                | GO             | \$ 4,000                         | \$ 0        | \$ 0        |
| Multi-Ethnic Resource Center Improvements                     | 6                | GO             | \$ 4,000                         | \$ 0        | \$ 0        |
| <b>Total Project Requests</b>                                 |                  |                | <b>\$ 427,000</b>                | <b>\$ 0</b> | <b>\$ 0</b> |
| <b>General Obligation Bonds (GO) Total</b>                    |                  |                | <b>\$ 427,000</b>                | <b>\$ 0</b> | <b>\$ 0</b> |

Higher Education Asset Preservation and Replacement (HEAPR)

**AT A GLANCE**

|                             |  |
|-----------------------------|--|
| <b>2024 Request Amount:</b> | \$300,000  |
| <b>Priority Ranking:</b>    | 1  |
| <b>Project Summary:</b>     | This request is for funds to renew existing campus facilities and infrastructure in accordance with Minnesota Statutes, section 135A.046 Asset Preservation and Replacement. |

**Project Description**

The purpose and use of Higher Education Asset Preservation and Replacement (HEAPR) funds is defined in statute 135A.046 Asset Preservation and Replacement. Funds are intended to preserve and renew existing campus facilities by supporting five categories of projects: Accessibility, Health and Safety (e.g. hazardous material abatement, building code compliance), Building Systems (e.g. exterior envelope, mechanical, and electrical systems), Energy Efficiency, and Infrastructure. HEAPR funds are used throughout the University of Minnesota system. Funds are allocated to campuses and research stations based on facility need and overall quantity of space. The University regularly reports on the status of its HEAPR funding to Minnesota Management and Budget and the Legislature.

**Project Rationale**

HEAPR funds are essential in supporting the University of Minnesota’s mission of teaching and learning, research and discovery, and outreach and public service. This mission will be compromised without continued, sustained reinvestment in buildings and infrastructure to extend and maximize useful life while ensuring the health, safety, and well-being of facility occupants and visitors.

Rigorous process ensures every HEAPR dollar supports the most urgent and impactful needs. Individual projects are identified and prioritized through the University’s Facility Condition Assessment (FCA). The FCA is a comprehensive systemwide evaluation of the condition of campus facilities and infrastructure portfolio. FCA data is used to triage existing buildings into those that need long-term investments, those that need short-term investments, and those where no investment is required, in alignment with academic priorities.

HEAPR funds are used throughout the University of Minnesota system and are allocated to campuses and research stations based on facility need and overall space. Funds keep people safe and make the campuses accessible for all Minnesotans. Funds leverage the State’s past investment in buildings and infrastructure by extending the functionality and useful life of those assets. HEAPR projects are green, since renewing an existing facility and maximizing useful life is always more sustainable than new construction. HEAPR dollars are flexible, allowing the University to respond quickly to emergencies and to respond to unique opportunities. Regulatory compliance items, e.g. elevators, storm water and building code compliance are funded with HEAPR allocations. HEAPR projects move faster, put people to work quicker, and provide different firms an opportunity to participate in design and

construction at the University of Minnesota.

**Project Timeline**

NA - project timelines vary by individual project.

**Other Considerations**

None

**Impact on Agency Operating Budgets**

No anticipated impact on operating budget.

**Description of Previous Appropriations**

The University includes HEAPR in each capital request. Over the previous 10 year period, the University received \$43.35 million in 2023, \$38.495 million in 2020, no appropriation in 2019, \$45 million in 2018, \$20.6 million in 2017, no appropriation in 2016, no appropriation in 2015, \$42.5 million in 2014, and no appropriation in 2013.

**Project Contact Person**

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**Agricultural Research and Education Complex (FAARM) - Phase 1****AT A GLANCE****2024 Request Amount:** \$60,000**Priority Ranking:** 2**Project Summary:** This request is for funds to develop an integrated advanced agricultural research and education complex. Funding will be used to acquire land, as well as predesign, design and construct the first phase of the new facilities and infrastructure.**Project Description**

The FAARM initiative (Future of Animal Agricultural Research in Minnesota) centers around developing an integrated and advanced agricultural research and education complex. The complex will house animals (dairy cows, beef cattle, poultry, and swine), raise crops, support laboratory analysis, and provide immersive education for K-12, technical, baccalaureate, graduate, and public learners. The University's feasibility study proposes a value of \$220 million to address all costs, including land acquisition, related to developing this complex. The request to the State of Minnesota is for \$60 million to be matched by \$60 million of pledged fundraising to launch the first phase of this initiative. The funding plan for the remaining \$100 million (estimated) of work to complete the subsequent phases of the overall vision is yet to be determined, but will likely include a mix of state, University, and private funds.

**Project Rationale**

The University's Systemwide Strategic Plan (MPact 2025) calls for developing and deploying new techniques and partnerships for smart farming and sustainable food supplies, as well as expanding, developing, and retaining agricultural and food system talent in rural communities and agribusiness. The University's existing animal agriculture facilities are obsolete. The current facilities, located around the state, were not built for an era of agriculture focused on data analytics, robotics, and precision agriculture advancements. Likewise the herd sizes required for modern research don't fit in current facilities. A new consolidated location allows for modern facilities built at the appropriate scale and allows for better partnerships with both industry and Minnesota State's Riverland Community College.

**Project Timeline**

To be determined

**Other Considerations****Impact on Agency Operating Budgets**

Operating budget impacts will be determined during formal design.

## **Description of Previous Appropriations**

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Academic Health Sciences - Design

**AT A GLANCE**

**2024 Request Amount:** \$15,000

**Priority Ranking:** 3

**Project Summary:** This request is for funds for predesign, design, site planning and acquisition, and preconstruction services for a new University of Minnesota academic health facility to be located in the Duluth Medical District. The center will provide students an interprofessional education and practice in medicine and pharmacy, in collaboration with the two Duluth health care centers, Essentia Health Systems and St. Luke’s Health System.

**Project Description**

The University is proposing to predesign and design a new facility for the College of Pharmacy and the Medical School to be co-located in the emerging Medical District in downtown Duluth. The approximately 180,000 square-foot facility will support teaching, clinical practice, and research at this location. A new building would accommodate both pharmacy and medical school students, providers, and researchers embedded as key participants in the emerging district. Teaching spaces, clinical care, and clinical research spaces will be designed and built based on the needs of the University community and be fully integrated with the amenities and features available in the broader Medical District.

**Project Rationale**

The University’s Systemwide Strategic Plan (MPact 2025) calls for driving innovation in next-generation health by increasing collaborations in health education, clinical training, and new models of care. When completed, the new Academic Health Sciences facility will expand regional teaching and research space in Duluth, allowing medical and pharmacy programs to meet the growing demand for healthcare professionals in the region. The collaboration between University of Minnesota Duluth and two Duluth health care centers, Essentia Health Systems and St. Luke’s Health System, will prepare and build a health care workforce for the future. The project’s both local and interconnected approach will advance health equity and better address the health care needs for Duluth, local Indigenous populations, and Greater Minnesota.

**Project Timeline**

To be determined

**Other Considerations**

**Impact on Agency Operating Budgets**

Operating budget impacts will be determined during formal design.

### **Description of Previous Appropriations**

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**Food Science and Nutrition Renovation**

**AT A GLANCE**

**2024 Request Amount:** \$44,000

**Priority Ranking:** 4

**Project Summary:** This request is for funds to predesign, design and renovate the Food Science and Nutrition facility to create a modern teaching and research facility on the Twin Cities campus in St. Paul.

**Project Description**

The Food Science and Nutrition facility was constructed in 1956 and is the primary home of the Department of Food Science and Nutrition, with 24 faculty, 350 undergraduate, and 100 graduate students. The multi-story, 91,000 square-foot building serves various classroom, laboratory, and research functions. Building systems and components throughout the building are mostly original and well beyond their useful life, and no longer reliable or sustainable. This project will replace aged infrastructure and provide much needed mechanical, electrical, and plumbing upgrades. Scope also includes extensive code and life-safety improvements, including the addition of a building-wide fire sprinkler system and accessible restrooms.

**Project Rationale**

The Department of Food Science and Nutrition’s innumerable accomplishments and contributions to the fields of food and health have made it an internationally recognized institution known for revolutionizing the study of nutrition, food, and dietetics. The building houses research labs, classrooms, and the J.J. Warthesen Food Processing “Pilot Plant”, which is an integral part of the department and, where Minnesota food companies like General Mills, Cargill and Ecolab partner with the University to develop new products and technologies. The food processing pilot plant is a true multi-use space where students collaborate with instructors and staff through coursework and as part-time workers. Faculty use the pilot plant for their research, such as extrusion, protein processing and extracting, dairy products development, cereal processing, and the encapsulation of flavors and bioactives. Companies partner with the University to utilize the pilot plant during startup, and in the development of ingredients. The lack of electrical capacity precludes the installation of modern analytics and plant equipment. Additionally, the pilot plant and majority of labs do not have cooling which is detrimental to sensitive analytical equipment and reagents. The lack of basic temperature control negatively affects the quality of data from sensitive analyses and when manufacturing research products, particularly in summer months.

**Project Timeline**

Design: 18 months (including program and occupant displacement)

Construction: To be determined during formal design



## **Other Considerations**

The Department of Food Science and Nutrition is affiliated with a number of research centers and initiatives across the University of Minnesota. The Midwest Dairy Foods Research Center, housed in the department, is jointly funded by Dairy Management Inc. and the Midwest Dairy Association. The center was established in 1987 and ongoing research projects of the Center support numerous graduate students annually.

Food Science and Nutrition also hosts the Sensory Center and the Plant Protein Innovation Center (PPIC). The PPIC was launched in 2018 and has quickly become the principal hub for research into plant protein extraction, purification, processing and nutrition in North America. At this stage, more than 40 companies from Minnesota, the US, and throughout the world are partners in this highly successful initiative.

Food Science and Nutrition faculty join other University experts to form the multidisciplinary team advancing the Forever Green Initiative (FGI), a critical state-funded initiative directed towards developing and improving winter-hardy annual and perennial crops that protect soil and water while driving new economic opportunities for growers, industry, and communities across Minnesota. Funding for this initiative was increased by the 2023 agricultural omnibus bill, building on prior legislative support.

The department is closely affiliated with the Healthy Foods, Healthy Lives Institute, which since 2008 has supported interdisciplinary research related to food, agriculture, and health throughout Minnesota, bridging diverse cultures and communities across the State.

The Center for Animal Health and Food Safety was established in October 2001, bringing together faculty across the University from human and veterinary medicine, public health, agriculture, nutrition, economics, engineering, and business to focus on the food system from farm to consumer.

## **Impact on Agency Operating Budgets**

No anticipated impact on operating budget.

## **Description of Previous Appropriations**

### **Project Contact Person**

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**Heating Plant and Critical Utility Infrastructure**

**AT A GLANCE**

**2024 Request Amount:** \$4,000

**Priority Ranking:** 5

**Project Summary:** This request is for funds to replace deteriorated equipment inside the University of Minnesota Crookston campus’ heating plant, as well as related critical utility infrastructure to improve safety within the plant and reliability of heat and hot water across campus.

**Project Description**

The Crookston Heating Plant was built in 1911 and serves the entire campus, comprising 40 buildings totaling approximately 500,000 square feet. Funding will be used to address aged and failing equipment inside the plant including restoration of the boiler stack, replacement of motor control centers and other electrical gear, and renewal of the deaerator tank and associated pumping equipment. Aside from addressing failing components of the campus heating system, this project will also replace the central domestic hot water heater and associated distribution infrastructure throughout campus.

**Project Rationale**

This project is similar to HEAPR projects, where the goal is to invest in critical infrastructure to help avoid future mechanical failures that could cause major issues and disruptions. In the case of this heating plant, a failure could disrupt heating to the entire campus, which would quickly create dangerous conditions given extreme winter weather in Crookston. Additionally, replacement of central hot water is necessary to ensure adequate supply in several campus buildings.

**Project Timeline**

Design: 12 months

Construction: 12 months

**Other Considerations**

**Impact on Agency Operating Budgets**

No anticipated impact on operating budget.

**Description of Previous Appropriations**

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**Multi-Ethnic Resource Center Improvements****AT A GLANCE****2024 Request Amount:** \$4,000**Priority Ranking:** 6**Project Summary:** This request is for funds to improve accessibility and upgrade life safety and building systems in the Multi-Ethnic Resource Center on the University of Minnesota Morris campus.**Project Description**

The Multi-Ethnic Resource Center (MRC) was constructed in 1899 and is the only campus building original to the Native American boarding school. Since 1972, the building has been home to the Office of Equity, Diversity, and Intercultural Programs, which includes the Multi-Ethnic Student Program, LGBTQIA2S+ Programs, and the International Student Programs office. The building lacks an elevator and other basic accessibility infrastructure, as well as modern life safety and building systems. Funding will be used to install an elevator and make other essential building improvements.

**Project Rationale**

The Multi-Ethnic Resource Center provides a home on the University of Minnesota Morris campus for Equity, Diversity and Intercultural Programs. The programs and services provided by these essential campus resources are frequently visited by students. Core objectives of this project are to improve accessibility and reduce barriers on campus to improve access for disabled people. The MRC building, originally built in 1899, has received only minor improvements for upkeep over the years. In the year 2000, a ramp was added to an entrance at the basement level of the building, however the other two floors of the building remain inaccessible to disabled visitors. Additionally, there is no accessible bathroom in the building.

**Project Timeline**

Design: 12 months

Construction: 12 months

**Other Considerations****Impact on Agency Operating Budgets**

No anticipated impact on operating budget.

**Description of Previous Appropriations****Project Contact Person**

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