DEAR FRIENDS

On behalf of our students, staff, faculty, and the Board of Regents, we are pleased to present the University of Minnesota’s 2020 capital request.

The University’s 2020 request is based on a deliberate and disciplined six-year plan that demonstrates a commitment to access and excellence for students and scholars, and to expanding capacity for clinical care and research that benefit all Minnesotans. Projects at the Institute of Child Development, or in our undergraduate chemistry teaching labs, for example, address identified needs in nationally ranked or in-demand statewide academic programs. In addition, investments into health sciences at the University will fuel Minnesota’s world class research powerhouse and position our students and faculty to change Minnesota’s health care delivery system as we know it.

Moreover, at the top of our request is asset preservation, or HEAPR. The deferred renewal backlog across the University’s 30 million square feet of facility space is widespread, touching on the student experience, academic programs, research initiatives, and general competitiveness. More than one half of our buildings are over 50 years old. Your investment in HEAPR will fund over 165 projects in more than 100 buildings systemwide—home to classroom spaces, student counseling centers, and research and teaching labs. These projects also drive employment for skilled laborers, creating a multiplier effect in communities across the state.

We believe the success of the University and the State of Minnesota are intertwined. Our partnership to educate and serve Minnesotans is not only vigorous and inviolable; it ensures that Minnesota’s best days lie ahead. Thank you for your past and continued support, and we look forward to working together in the weeks and months ahead.

Sincerely,

Chair Ken Powell
President Joan T. A. Gabel
LEADERSHIP

PRESIDENT

Joan T. A. Gabel

University of Minnesota System
The University of Minnesota is governed by a 12-member Board of Regents, with all Regents being elected to six-year terms by the Minnesota State Legislature. The Twin Cities campus is led by the University of Minnesota president, and all of the campuses fall under the leadership of the president, who also acts as the ex-officio, non-voting president of the Board of Regents. Crookston, Duluth, Morris, and Rochester are each led by a chancellor.

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Term Expires: 2021
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FIVE STRONG CAMPUSES. ONE STRONG STATE.

The University of Minnesota System is one of the most comprehensive in the nation, with offerings to meet the interests of every student and the changing needs of our society. We’re proud of our land-grant mission of world-class education, groundbreaking research, and community-engaged outreach, and we are unified in our drive to serve Minnesota.

- ¼ U of M students are the 1st in their family to attend college
- 67K+ Students across 5 campuses
- 2/3 U of M graduates stay in Minnesota
- 1/3 New undergraduates every year are transfer students
- 90% Freshman retention rate across the system
- 13K+ Students across 5 campuses Low- and middle-income Minnesota undergraduates are U Promise Scholarship recipients
OUR STATEWIDE IMPACT PER YEAR
IS $8.6 BILLION

- More than 70% of Minnesota’s health care providers train through the University of Minnesota
- Over 1 million Minnesotans participate in U of M Extension programs like 4-H, financial education, health, education, and community economics
- Outreach and engagement in all 87 Minnesota counties
- Minnesota’s only veterinary, pharmacy, public health, and dental colleges

The University of Minnesota works with communities on agricultural issues, environmental concerns, health care access, business innovation and economic development, and the education and enrichment of youth. Our students, staff, and alumni are living in and contributing to communities in every corner of the state.
OUR RESEARCH

Minnesota’s only Carnegie R1 (Highest Research Activity) institution

300+ research, education, and outreach centers and institutes

900+ issued patents and 1,800+ current licenses

Mission Statement
The University of Minnesota, founded in the belief that all people are enriched by understanding, is dedicated to the advancement of learning and the search for truth; to the sharing of this knowledge through education for a diverse community; and to the application of this knowledge to benefit the people of the state, the nation, and the world. The University’s mission, carried out on multiple campuses and throughout the state, is threefold:

- Research and Discovery
- Teaching and Learning
- Outreach and Public Service

An investment in the University is an investment in Minnesota
An investment in Minnesota’s students, who become workforce-ready graduates and leaders for our state
An investment in discovery, research, and cures by our world-class faculty, who transform our state and society
An investment in critical infrastructure, shoring up our buildings while putting money directly into the hands of local contractors who work on projects across our campuses

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Project Total</th>
<th>U of M Investment</th>
<th>State Request</th>
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<tbody>
<tr>
<td>HEAPR</td>
<td>$200.0</td>
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<td>Child Development Building Replacement</td>
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<td>Chemistry Undergraduate Teaching Facility</td>
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<td>Clinical Research Facility – Design</td>
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Projects are listed in priority order. Dollars are in millions.
HIGHER EDUCATION ASSET PRESERVATION AND REPLACEMENT (HEAPR)

The U of M seeks $200 million in HEAPR funding to support over 165 projects in 100+ buildings systemwide. With one-half of all U of M buildings over 50 years old, HEAPR is the most important source of renewal of our facilities across the state.

The total facility space area that the U of M maintains statewide: 30 MILLION SQ. FEET

HEAPR projects fall into 4 categories:
1. Health, safety, and accessibility
2. Building systems
3. Utility infrastructure
4. Energy efficiency

HEAPR is only used to renew existing buildings and programs. This funding enables us to direct more operating resources to accessible, affordable programs and services for students.

Top 3 most common projects in the 2020 request:
- Building envelopes (roofs, exterior walls, windows) – $75 million
- Mechanical (HVAC, plumbing, electrical) – $60 million
- Life safety and code – $45 million

TOTAL 10-YEAR RENEWAL NEED: $4.8 BILLION
- Catch up needs – $2.5 billion
- Keep up renewal – $2.3 billion

Prioritizing Projects
The University allocates HEAPR funds systemwide, based on campus size and facility condition.

HEAPR is a smart investment
- Increases U of M affordability and accessibility
- Lowers the pressure on tuition
- Leads to safe and secure student spaces
- Supports local businesses
- Leverages private funding
- Strengthens research capabilities (e.g., Parkinson’s disease, environmental engineering, food safety)

HEAPR funds are used efficiently: 90% of funding is spent or encumbered within 2 years.

In Mechanical Engineering, HEAPR improvements leveraged $5 million in private funding for research lab renovations

$100+ million in HEAPR projects (since 2014) have been awarded to 138 contractors in 52 Minnesota cities and 20 Minnesota counties
HEAPR – Request vs. Received (2010-19)

2018 HEAPR funding
86% encumbered  9% obligated  5% unencumbered
HEAPR – Crookston Campus

The University of Minnesota Crookston is known for its focus on experiential learning and is one of the nation’s pioneers in online and distance education.

- U of M Crookston offers 16 degree programs online.
- 40% of U of M Crookston students who complete a pre-vet animal science or equine science degree program go on to attend veterinary school. The national average is 10%.
- U of M Crookston’s new Center for Collaborative Research provides research space for students and faculty in analytical chemistry, microbiology, and molecular and cellular biology.

Crookston campus HEAPR project examples

Electric Distribution Infrastructure – Campuswide
This is the final phase of a project to replace and upgrade aged and failing transformers, sectionalizing cabinets, and underground cable. The project benefits students in residence halls and academic buildings, as well as online students, who rely on the data center.

Natural Gas Distribution – Campuswide
The system’s piping is 50 years old in many sections. Modernizing and extending this infrastructure benefits every student by improving gas delivery to labs, food service areas, residence halls, athletic areas, and the wellness center.
- $3,989,472 requested for 9 projects, benefiting every student
- 723,407 gross sq. feet of facility space
- 1,839 undergraduate students
- 35 undergraduate degree programs

Floor Replacement – Lysaker Gym
Lysaker Gym seats 3,200 and serves U of M Crookston’s varsity teams, as well as local and regional volleyball and basketball tournaments and campus events. The gym’s floor boards have shifted and gaps have formed, creating safety hazards.

Exterior Façade, Window, Door Replacement – Owen Hall
Built in 1909, Owen Hall houses research and teaching labs for U of M Crookston’s agronomy, horticulture, and natural resources programs. Many windows in the building are no longer operational and are screwed shut for safety. There is no air conditioning in this section of the building, so it becomes extremely warm in early fall and late spring. This project will provide energy-efficient windows in 9 classrooms, and in several faculty offices and student work spaces.

CAMPUS CONDITION
10-YEAR NEED: $87 MILLION

POOR CRITICAL CONDITION FACILITIES
59,773 GSF, OR APPROXIMATELY 8%
“Lysaker Gymnasium is in need of replacement in order to protect student athletes from injury and to attract future student-athletes to play Golden Eagle sports.”
Stephanie McWilliams, Senior majoring in elementary education and guard for Golden Eagle Women’s Basketball

“Replacing the Owen Hall windows is incredibly important in order to keep those classrooms and offices as functional spaces. Having only 1 functional window out of 3 in my classroom limits ventilation and makes for a poor learning environment.”
ROB PROULX, Agriculture and Natural Resources Department faculty
Crookston Campus HEAPR Project Requests
The University of Minnesota Duluth is a highly ranked medium-sized regional university with a strong emphasis on the environment and sustainability, and a global reputation for natural resources and freshwater research.

- U of M Duluth’s newest graduate programs include a master of tribal resource and environmental stewardship, a master of applied materials science, and a 12-month master of business administration.
- U of M Duluth’s Natural Resources Research Institute (NRRI) delivers applied research solutions to support the sustainable development of Minnesota’s natural resources.
- Students gain hands-on, real world experience aboard U of M Duluth’s two research vessels: Blue Heron and Kingfisher.

Duluth campus HEAPR project examples

**Capital Renewal – Chemistry Building**
The Chemistry Building (1949) was the first building on the U of M Duluth campus. Because the building was unable to keep pace with increased enrollment and evolving needs in STEM education, this year chemistry programming moved to the new state-funded Heikkila Chemistry and Advanced Materials Science building. The old building is in critical need of HVAC, fire safety, asbestos abatement, electrical, accessibility, and code upgrades to enable conversion of outdated laboratories into classrooms and other learning spaces.

$17,906,463 requested for 3 projects benefiting students studying chemistry and humanities and gaining hands-on research experience at the Natural Resources Research Institute 3,304,210 gross sq. feet of facility space
8,441 undergraduate students
982 graduate and professional students
83 undergraduate degree programs
26 master’s degree programs
3 doctoral degree programs
Capital Renewal – Humanities Building

The Humanities Building is over 60 years old and serves as a main corridor on a campus where every building is connected. This project will upgrade HVAC, add fire sprinklers, provide asbestos abatement, improve accessibility, and address code requirements. The building is home to a number of liberal arts programs, including music, art and design, English, world languages and cultures, history, and philosophy.

Elevator Renewal – Natural Resources Research Institute (NRRI)

NRRI was established by the state in 1983 to deliver applied research solutions to support the sustainable development of Minnesota’s natural resources. The main NRRI office, built in 1956, is equipped with one elevator to serve all students, staff, and visitors. This project will modernize the elevator to ensure reliability and compliance with accessibility standards.

CAMPUS CONDITION
10-YEAR NEED: $409 MILLION

POOR/Critical CONDITION FACILITIES
461,971 GSF, OR APPROXIMATELY 19%

“Investment in our older buildings will foster more impactful learning environments. As a student, a comfortable and modern classroom feeds my mind and creativity. It ensures greater success for all students.” AYAH ABUSERRIEH, double major in philosophy and political science Hometown: Rochester, MN

“Ensuring that our students have spaces for productive and interdisciplinary learning is critical to our students’ success. This renovation will bolster students’ capacity for innovation and creativity for decades to come.” PAULA GUDMUNDSON, assistant professor of flute, Department of Music
Duluth Campus HEAPR Project Requests
HEAPR – Morris Campus Request

The University of Minnesota Morris is a public liberal arts college where students work closely with faculty and mentors to shape an education that prepares them for challenging graduate programs, productive careers, and deep civic engagement.

- U of M Morris has been named a “Top 10 Best Public Liberal Arts College” by U.S. News and World Report for more than 20 years and is a top producer of U.S. Fulbright Students.
- U of M Morris is the only 4-year college in the Upper Midwest qualifying for federal designation as a Native American Serving Non-Tribal Institution; 20% of U of M Morris students are American Indian.
- U of M Morris is a national leader in sustainability education and research – renewable energy, conservation, and local food.

Morris campus HEAPR project examples

Elevator Installation and Fire Alarm Installation – Multi-Ethnic Resource Center

The Multi-Ethnic Resource Center was built in 1900 and houses Student Affairs and Diversity, Equity and Intercultural Programs. Student groups use the building for meetings, while individual students use the computer lab and study spaces. This project will add an elevator to provide access to all floors for students, faculty, staff, and visitors, and will upgrade the fire alarm system.

Window Replacement – Behmler Hall

Built in 1917, Behmler Hall is U of M Morris’s student services hub. Services include registration, financial aid, billing, and counseling. Energy-efficient windows will replace obsolete single-pane windows.

Roof Replacement and Code Improvements – Humanities Fine Arts

This project will replace failing roof sections installed in 1971. The roof replacement will prevent damage to the building’s recital hall, theaters, gallery, and music practice rooms. Additionally, it will correct non-compliant handrails and guardrails to accommodate all users.

Sprinkler Replacement – Student Center

U of M Morris’s Student Center is the heart of community life on campus. The building’s fire sprinkler system was installed in 1959. This project will replace critical sprinkler system components with code-compliant upgrades.

$5,927,906 requested for 28 projects, benefiting all students on campus

933,166 gross sq. feet of facility space
1,400 undergraduate students
13 secondary education licensure areas
34 undergraduate degree programs
9 pre-professional Programs
“Adding an elevator would provide equal access to all floors for students, faculty, staff, and visitors. An elevator would greatly improve student and facility life by making the building more accessible and welcoming.”
BRANDON KING, Sophomore majoring in psychology, sociology, and human services Hometown: Burnsville, MN

“As the Humanities Fine Arts building nears the half century mark, it needs care to continue to serve us in our industries and keep up with contemporary technological and safety standards.”
JESS LARSON, Professor of studio art

Campus Condition
10-year need: $174 Million

Poor/Critical Condition Facilities
481,564 GSF, or approximately 48%
Morris Campus HEAPR Project Requests
HEAPR – Twin Cities Campus

The University of Minnesota Twin Cities is the U of M flagship and 1 of 5 campuses in the nation with an engineering school, medical school, law school, veterinary medicine school, and agricultural school.

- Prepares over 70% of Minnesota’s new physicians and has the only dental, veterinary, and pharmacy colleges in the state
- Ranks 9th in research among all U.S. public universities, with more than $900 million in research expenditures

Twin Cities campus HEAPR project examples

Roof Replacement – Appleby Hall
Appleby Hall houses multi-purpose classrooms and student service offices, including Student Counseling Services and the Center for Writing. The building’s roof is 31 years old, past the typical lifespan. Replacement will prevent water infiltration from accelerating the building’s deterioration.

Elevator Renewal – Phillips Wangensteen Building
The 16-story Phillips Wangensteen Building houses health science departments, patient clinics, and classrooms. This project will renew 5 elevator cars that have reached the end of their useful life.

Fire Life Safety Improvements – Moos Tower
The 19-story Moos Tower houses the School of Dentistry, the School of Nursing, patient clinics, classrooms, and the Health Career Center. This project will upgrade the stair pressurization and smoke control systems. These systems work together during a fire emergency.

Capital Renewal – Food Science and Nutrition
Many of the Food Science and Nutrition building’s systems date back to 1956. The building can no longer support modern analytical and plant equipment, due to the lack of air conditioning and electrical capacity in labs and lack of culinary steam and potable water in food pilot plants. This project will add a fire sprinkler system; upgrade fire alarm devices and HVAC equipment; consolidate outdated exhaust fans; upgrade plumbing and electrical; replace asbestos floors, ceilings, and wood framed windows; and provide an accessible restroom.

$167,003,094 requested for 97 projects,
24,532,757 gross sq. feet of facility space, 250 roofs, and 415 elevators
31,367 undergraduate students
15,958 graduate and professional students
150 undergraduate degree programs
183 master’s degree programs
108 doctoral degree programs
Campus Condition
10-year need: $4 BILLION
Poor /critical condition facilities
7,435,552 GSF, or approximately 32%

“This campus should welcome all people and our infrastructure must reflect this. I believe it is very important to create an accessible route from the bus stop to the West Bank Plaza.”
Bri Sislo-Schutta
Majors: Political Science and Strategic Communications
Hometown: Shoreview, MN
Twin Cities Campus HEAPR Project Requests (Minneapolis)
Twin Cities Campus HEAPR Project Requests (St Paul)
HEAPR – Research and Outreach Centers and Field Stations

- These sites allow undergraduate and graduate students to study and work in unique ecological environments, gaining invaluable experience through hands-on research. Students can partner with top researchers, building the collaboration, problem-solving, and communications skills employers prize.
- These sites also offer hands-on learning activities for K-12 students. Through partnerships across the University of Minnesota’s 5 campuses, students get help preparing for college and exploring future careers.

ROCs and Field Stations HEAPR project examples

Envelope Renewal Project - Cedar Creek Ecosystem Science Reserve
This station, located in East Bethel, contains 10 lodging facilities for undergraduate students, graduate students, postdocs, faculty, staff scientists, and visiting scholars enrolled in on-site ecology courses or staying on-site to complete research. The envelope renewal project includes roof repairs, new windows and new doors in our lodging facilities on campus to replace aging infrastructure and increase energy efficiency.

Thermal Pane Windows and Insulation – Itasca Biological Station and Laboratory
Located at the headwaters of the Mississippi River, the station is home to world-class field research, as well as being the site of the nationally recognized Nature of Life pre-orientation program for College of Biological Sciences undergraduates. The station contains 17 student bunkhouse cabins and 17 faculty cabins. This project is to winterize a number of student and faculty cabins to facilitate the use of the station during the winter months.

Well Corrections – Horticulture Research Center
The Horticultural Research Center in Chaska is well known for its fruit-breeding programs. The current well system and structure are beyond their recommended lifespan. This project will rebuild the well system and structure.

HVAC Improvements – Southern Research and Outreach Center
The center, located in the heart of Minnesota’s farm country, provides hands-on education, research, and outreach for agricultural productivity and environmental sustainability. This project will improve HVAC infrastructure and controls to provide stable environments in labs studying soybean cyst nematodes, disease-fighting vegetables, and liquid plasma as a renewable energy source.

Campus Condition
10-year need: $4 billion

Poor/Critical Condition Facilities
7,435,552 GSF, or approximately 32%
Research and Outreach Centers and Field Stations HEAPR Project Requests
Child Development Building Replacement – Twin Cities Campus

Ranked #1 in the nation by U.S. News and World Report for the developmental psychology program
Built 1913 and then renovated in 1954 and 1967, the building is in great need of modernization
• At the Institute of Child Development, students are working with researchers to tackle some of Minnesota’s most pressing challenges, including closing the achievement gap, detecting autism, and addressing adolescent substance abuse.
• The new building will improve student success by providing classrooms near faculty and support staff, and will provide 21st century child development research space that supports modern equipment and technology.

Student impact
• Tripled classroom capacity
• New advising and study spaces
• Centralized classrooms near faculty and support staff

Highlights
Observational testing rooms, shielded electrophysiology rooms, and an MRI simulation room
Other benefits
• Strengthen research to address child development challenges in Minnesota
• Support early childhood and adolescent partnerships and programming throughout Minnesota
• Maintain the U of M’s rank as the #1 developmental psychology program in the country

We are training students to identify and answer the world’s most pressing questions related to child and adolescent development.

29,850 GSF Renovate
46,852 GSF Construct
13,600 GSF Teaching and learning space
40,878 GSF Research space

“We only have one classroom in the current building. The new building will allow students and faculty to come together for learning, research, and networking.”
Courtney Engholm, junior majoring in developmental psychology
Hometown: Sleepy Eye, MN

“I’m an undergraduate and fortunate to be able to conduct my own research. Not every undergraduate student can do that because they don’t have time to go between buildings and campuses. With the new building, more students will be able to engage in research because most of the research will be conducted in the building.”
Kevin Ly, senior majoring in developmental psychology
Hometown: St. Cloud, MN
A.B. Anderson Hall Renovation – Duluth Campus

- A.B. Anderson Hall, built in 1970, serves nearly 500 majors each year, including those studying communication, philosophy, history, and art.
- The building houses classrooms, fine arts studios, kilns, workspaces, and academic offices.
- The building needs critical mechanical and life safety system upgrades.

Student impact
- Support year-round learning with better lighting, temperature control, and ventilation
- Increase safety with an automatic fire protection sprinkler system and accessibility upgrades

Other benefits
- Modernize classrooms and improve teaching spaces
- Increase faculty and staff productivity with temperature-controlled offices

Highlights
Updated mechanical systems, life safety equipment, fire protection, and architectural finishes
Approximately half of the students on the Duluth campus take classes in A.B. Anderson every year.

- 5,000+ students take classes in A.B. Anderson every year
- 36,670 GSF Renovate
- 21,271 ASF Teaching and learning space
- 383 ASF Research space

“For several months out of the year, A.B. Anderson Hall is simply too hot or humid to sit in comfortably. During even slightly warmer weather I constantly have to find another place to do research, and often have to move or cancel classes due to heat issues. The A.B. Anderson Hall Renovation is critical to facilitating the research and teaching missions of the University.”
Ryan Goei, director, University Honors associate professor, Department of Communication

“A.B. Anderson Hall has no air circulation and extremely uncomfortable temperatures. It would be amazing to see the state invest in this project not only to support UMD students, faculty, and staff, but to support the liberal arts.”
Neal Bhakta Majors: political science and communications
Hometown: Shakopee, MN
Chemistry Undergraduate Teaching Laboratories – Twin Cities Campus

95% of students who take chemistry courses are non-chemistry majors
- Minnesota Department of Employment and Economic Development projects continued growth in employment in STEM-related fields.
- Students from every college on the Twin Cities campus take chemistry courses.
- The Twin Cities campus’s chemistry labs are nearly 100 years old. They no longer serve today’s educational and workforce needs.
- Undergraduate chemistry lab course enrollments are projected to rise more than 14%, from 2018 to 2020, but the building cannot serve additional students.

Student impact
- Serve more students and provide more chemistry learning opportunities
- Modernize learning environments, supporting collaboration and student-teacher interaction
- Provide students with 21st century teaching facilities to match employer demand and expectations

Highlights
Collaboration space, lab prep and support space, tutoring space
- 23,000 GSF Renovate
- 78,600 GSF Construct
- 62,000 GSF Demolish
- 54,500 ASF Teaching and learning space

“As a student taking lab courses, and also as a teaching assistant leading others, this new facility will give students from all majors the ability to learn together and create solutions used by many careers in science, technology, and health care.”
Grace Gretz, chemistry undergraduate major and teaching assistant

“New chemistry teaching labs will allow my students to more easily collaborate and solve problems. Students currently work together on the floor of the hallways due to the lack of appropriate instruction facilities.”
Michelle Driessen, Director of General Chemistry, Department of Chemistry

We are educating Minnesota’s future

Undergraduate chemistry serves a very large population of students in STEM and STEM-related fields. The Minnesota Department of Employment and Economic Development projects continued growth in employment across all of these fields. Physicians, nurses, veterinarians, dentists, pharmacists, and chemical engineers are just some of the in-demand careers.
Clinical Research Facility – Design Twin Cities Campus

The mission of the Clinical Research Facility is to advance clinical and outcomes-focused research with cross-collaborative teams and projects. This new facility will embody the importance of clinical research at the University of Minnesota, unifying our community of health sciences translational researchers and connecting our broad array of interdisciplinary clinical research activities.

- The U of M is a national leader in clinical research, but researchers are dispersed across campus, leading to inefficiencies and slower progress toward discovering new cures.
- This project is the second in a series envisioned by the 2015 Blue Ribbon Task Force, following the Health Sciences Education Center, scheduled to open in 2020.

U of M impact

- Co-locate students and clinical researchers to provide cutting-edge learning opportunities
- Elevate the Medical School nationally and attract additional research funding
- Consolidate clinical research units and activities from across the University to reduce inefficiencies and operating costs

Statewide impact

- Improved access to the most advanced treatments and state-of-the-art health care
- High-quality, innovative interprofessional training of Minnesota’s health care workforce
- Ground-breaking health discoveries, which translate into economic growth for Minnesota

Highlights

Patient-centered clinics, a consolidated home for the Clinical Translational Science Institute, and a Clinical Research Support Center

- 1 million+ # of people U of M cares for annually – from every county in Minnesota
- Clinical Research is essential to the detection, diagnosis, treatment, and prevention of diseases
- 275,000 GSF Design

“Clinical research is how we move innovation from an idea to advancing care. It is how we offer the latest in treatments and therapies to our patients. This building will give the University the chance to expand our clinical research in a way that is accessible, efficient, and patient-centered.”

Jakub Tolar, MD, PHD Dean, Medical School Vice President for Clinical Affairs