We are asking the State of Minnesota to support our efforts with a Supplemental Budget Request of $3.6 million in recurring funds starting in FY 2017. Without this investment, technologies will languish, plants will sit idle, and more jobs will be lost.

With this funding, the University can:

- Develop higher value ore products in an environmentally sound manner to meet the future of U.S. steelmaking
- Maximize resource recovery with new technologies that improve yields and reduce costs
- Expand partnerships with state agencies and industry stakeholders to diversify offerings and pursue higher-value products
- Prioritize legacy ore stockpiles for additional extraction opportunities
- Create a platform where stakeholders share research priorities, define project scope, and communicate information and progress
- Vet existing and emerging technologies to address state-wide sulfate contamination
- Construct a Direct Reduced Iron simulator
- Pilot new technology for processing Minnesota’s high-value ilmenite
- Update Minnesota’s portfolio of mineral assets

The University of Minnesota is ready to help the industry move forward with equal parts innovation and rigorous science.
INVEST IN EDUCATION, WORKFORCE TRAINING,
AND ECONOMIC DEVELOPMENT

Chemistry and Advanced Materials Science Building

This 52,000 square-foot facility will enhance student learning, research, and industry partnerships by providing modern research labs, instructional labs, teaching space, and offices for UMD’s chemistry and advanced materials science programs.

State Investment: $27.2 million
University Investment: $13.6 million
Total Investment: $40.8 million

• The current chemistry building is almost 70 years old and was not designed for modern chemistry or for the number of chemistry students UMD has today
• STEM education is critical to Minnesota’s economic prosperity
• 90% of UMD students are from Minnesota and over half are from greater Minnesota
• More than 70% of UMD’s STEM graduates live and work in Minnesota
• New Advanced Materials Center is an interdisciplinary program that will train a new workforce in an emerging field as well as fuel basic and applied research that directly supports local and regional businesses such as 3M, Allete, Tundra, Amsoil, Cirrus, and others
• UMD has nearly a 100% placement rate with chemistry, biochemistry, and engineering graduates
• Enrollment in chemistry program has more than doubled since 2005 from 200 majors to more than 450 majors today
• UMD’s chemistry classes are at maximum capacity with over 5,500 students (more than half of UMD’s student body) taking chemistry courses this year
• This facility is needed to fully support the University of Minnesota’s $1.2 million investment to grow UMD’s STEM enrollment by 350 students
• Pre-design was completed with $1.5 million in 2014 state funding
• $54,342,923 economic impact from construction, beginning summer 2016

“The University of Minnesota Duluth is committed to providing a quality education to our students while making a positive impact on our community. Through innovative and responsive academic programs like our new Advanced Materials Center, partnerships with regional business and industry, and cutting-edge research on campus and at the Natural Resources Research Institute, we are a leader and economic engine for our region.”

Dr. Lendley C. “Lynn” Black
Chancellor
University of Minnesota Duluth