Chemical Sciences and Advanced Materials Building

Capital Request

Background

STEM education at UMD

2014

- University of Minnesota Duluth strengthens local and regional industries by providing research partnerships and a prepared workforce.
- Job placement rates for chemistry, biochemistry, and engineering graduates are over 95%.
- Over 1,000 students take chemistry classes each week. Undergraduate majors in chemistry and biochemistry increased 39% between 2008 and 2012; graduate majors increased 36%.
- In 2012, 150 qualified STEM degree applicants were denied admission because of lack of laboratory and learning spaces.
- In 2012, Duluth graduate Brian Kobilka won the Nobel Prize in Chemistry.

Existing laboratory and learning spaces are unable to meet student demand.

Over 1,000 UMD students take chemistry classes each week.

Project Description

Build a 56,000-square-foot facility to meet the research and learning needs of students in chemistry, biochemistry, material science, and engineering

- Research laboratories
- Instructional laboratories
- · Classrooms and informal learning spaces
- Office and collaborative spaces





Duluth

UNIVERSITY OF MINNESOTA

2014 Capital Request

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Benefits

Student success

- The new space will allow for a new advanced materials science and engineering program, which will increase enrollment by 250 undergraduate students and 50 graduate students by 2018.
- The new laboratories will allow more students to participate in research, a hallmark experience of UMD's science and engineering programs.
- The facility will help recruit top faculty as retirements cause a turnover in the next five to ten years.

Industry partnerships

- The facility will foster programs with direct benefits to Minnesota industry through initiatives in pharmaceutical and biomedical sciences, energy, envionmental science, mineral processing, computation, and materials development.
- Research partnerships with corporations throughout northeastern Minnesota will advance key industry sectors.
- Dedicated laboratories and collaborative space will focus on new technologies, improving efficiencies, reducing waste, and finding innovative solutions.



New classrooms like these improve student success through active learning.

State investment: \$24 million

- University funding: \$12 million
- Total project cost: \$36 million

For More Information http://z.umn.edu/6stepsforward

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