The program in materials science and engineering leads to a bachelor's degree that enables students to immediately enter the profession. The program develops an understanding of the properties and the origin of these properties in a broad range of materials, including metals, ceramics, semiconductors, polymers, and composites. Because the program is broadly based, graduates find employment across a range of industries, including the automotive, chemical, electronics, energy, and medical technology industries. Graduates also find positions in consulting, research, technical management, and teaching.

The Materials Science and Engineering (MSE) program is designed to prepare students to achieve the following career and professional accomplishments after graduation: *Be employed as a materials engineer or a related engineering or science position, using and developing his or her skills based on the demands of the job.* Enter into a graduate or professional program, applying his or her knowledge and experience toward an advanced or professional degree. *Be an effective team member, using and developing communication and teamwork skills.* Be a responsible engineer/scientist or professional, demonstrating ethical and professional responsibility and continuing to learn through formal and informal educational experiences.

Student Experiences

Student Group Spotlight: Materials Research Society
Study Abroad Options

Learn about study abroad options for Materials Science and Engineering majors at [http://umabroad.umn.edu/](http://umabroad.umn.edu/)

Meet Our Alumni

Jenna Ronquillo

Major: Materials Science and Engineering

Hometown: Woodbury, Minn.

“It was exciting to learn I could apply my knowledge of chemistry, physics, and calculus to solve engineering problems at one of the best engineering colleges in the nation.”

You might also explore
Chemical Engineering  
Chemistry  
Mathematics  
Mechanical Engineering  
Physics

**Associated Careers**

Biomedical Engineers, Chemists and Materials Scientists, Engineering and Science Managers, Materials Engineers, Petroleum Engineers, Sales Engineers

**Admission Information**

FRESHMAN:

[admission information](#)

TRANSFER STUDENTS:

Requirements for the [College of Science and Engineering](#)