EARN A GRADUATE DEGREE IN MATERIALS SCIENCE AND ENGINEERING

MATERIALS SCIENCE AND ENGINEERING (MS, PHD)

DEGREE PROGRAMS
The department offers traditional PhD and MS degrees and supports approximately thirty-five graduate students each year, mostly on research assistantships. Recent research sponsors include federal agencies, private corporations, and nonprofit foundations. The department offers nontraditional MS degrees as well, with a course-work only, non-thesis MS degree option that can be completed in two to three semesters. In addition, Michigan Tech undergraduates are eligible for an accelerated MS degree, which can be completed within a single year.

RESEARCH FOCUS
Graduate students have the opportunity to study and perform research on a variety of important and emerging areas of materials science. Example projects include the following:

- **Materials for Energy**—focusing on the role of materials in the advancement of new and existing energy sources, such as hydrogen storage, fuel cells, and batteries.
- **Development of Functional Materials**—directed at materials with properties that are sensitive to changes in the environment (such as temperature, pressure, electric field, magnetic field, and optical wavelength), with application in the areas of communication, microelectronics, medical treatment, life science, energy and transportation, and military technologies.
- **Innovations in Materials Processing**—focusing on understanding the complex series of processing steps that transform natural resources into finished parts or products. Research is directed at improving materials performance and reliability, while minimizing cost and reducing energy consumption.

OUR FACULTY
Students will benefit from close interaction with faculty who are nationally and internationally recognized for their teaching, research, and professional service. Many have received prestigious National Science Foundation CAREER Awards and are recognized by professional societies. The materials science and engineering program is ranked 51st nationally by U.S. News & World Report.

RESEARCH FACILITIES
The department has excellent facilities and instrumentation for synthesis, processing, testing, and characterization of materials, as well as a modern computational laboratory. For additional information on departmental resources, visit www.mtu.edu/materials/graduate/advising.

Michigan Tech encourages interdisciplinary research in manufacturing and materials processing. Graduate students may have the opportunity to collaborate with scientists in other departments, as well as in the Institute of Materials Processing.

COMMENT FROM AN ALUMNA

“Michigan Tech’s faculty and staff in materials science and engineering inspired me to pursue a lifelong career in science. I cannot imagine doing a PhD in a better environment.”

Yang Shao-Horn, PhD
Gail E. Kendall Chair of Mechanical Engineering, MIT

www.mtu.edu/materials/graduate/program • www.mtu.edu/gradschool
ADMISSION REQUIREMENTS

Application deadline: Apply by February 15 for the fall semester, when most new students are admitted. Applications are reviewed on an individual basis using a holistic approach.

All Students
- Graduate School application
- Statement of purpose
- Official transcripts
- GRE: Recommended Quantitative Score in 75th percentile, Verbal Score in 30th percentile, and Analytical Writing Score of 3.0 or higher (Domestic students from ABET-accredited programs are exempt.)
- Three letters of recommendation
- Admitted applicants typically have an undergraduate GPA of 3.0/4.0 or better

International Students
- TOEFL scores greater than 79 iBT

FINANCE YOUR FUTURE

Earning your materials science and engineering degree is an investment in your career and your future. Here are a few financial aid opportunities you can explore as you look for ways to pay for your education.

- In addition to research assistantships, the department offers teaching assistantships and fellowships to qualified applicants. All students admitted to the Graduate School are considered for financial aid.
- Many graduate students are eligible for a new set of federal loans, up to $20,500 per academic year, as an independent student.
- Contact Michigan Tech’s Financial Aid Office at 906-487-2622 or finaid@mtu.edu for more information on financial aid opportunities.

ABOUT MICHIGAN TECH

Michigan Technological University, founded in 1885, has gained worldwide recognition for innovative education and scholarship. Michigan Tech is a leading public research university, exploring the boundaries of knowledge, developing new technologies, and preparing students to create the future for a prosperous and sustainable world. Michigan Tech offers more than seventy graduate degree programs in engineering, forestry and environmental sciences, computing, business and economics, natural and physical sciences, technology, humanities, and social sciences.

APPLYING IS EASY—AND FREE!

www.mtu.edu/gradschool/admissions/apply

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www.mtu.edu/materials/graduate/program

Graduate School
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www.mtu.edu/gradschool