About the Department

Michigan Tech was established in 1885 as the Michigan Mining School, with a mission to train mining engineers in the Copper Country. For more than 135 years, our department has remained committed to delivering excellence in engineering and science. Our four undergraduate degrees emphasize applications and the development of new digital technology in understanding and safe management of Earth and its resources.

Learn from faculty who are widely known for their research in hydrogeology, energy and mineral resources, sustainable mining, remote sensing, volcanology, atmospheric sciences, mineralogy, petrology, paleomagnetism, and seismology. You’ll have endless opportunities for hands-on learning through national and international field trips with faculty, lab work, Senior Design, Enterprise, undergraduate research, co-ops, and internships. After graduation, you’ll go on to be successful in industry, business, government, or academia.

Tomorrow needs engineers and scientists who can balance the safety of our planet and its natural resources with the needs of society. We’re ready. Are you?

Undergraduate Majors

- Applied Geophysics
- Geological Engineering
- Geology
- Mining Engineering

“With a mining engineering degree, there are so many specific fields you can get into both in and outside of mining. I like having options and different opportunities available to me and mining has been really great for that.”

—Shawn vanDoorn ’20, mining engineering graduate

Accelerated Graduate Degree Programs

mtu.edu/accelerated

Plan ahead and fast-track your career. Earn a master’s degree in as little as two additional semesters after your bachelor’s, or specialize in an area and earn a graduate certificate in as little as one additional semester. We offer over 30 accelerated master’s degree programs and more than 40 accelerated certificates at Michigan Tech, many within engineering.

Clubs and Organizations

mtu.edu/involvement

Make a difference at Michigan Tech and meet other students in your major by getting involved in student organizations on campus related to geological and mining engineering and sciences.

Our students are encouraged to participate in a variety of student organizations, including:
- American Institute of Professional Geologists (AIPG)
- Engineers Without Borders (EWB)
- Enterprise
- Geology Club
- National Society of Black Engineers (NSBE)
- Sigma Rho (Professional Mining Fraternity)
- Society for Mining, Metallurgy, and Exploration
- Society of Asian Scientists and Engineers (SASE)
- Society of Hispanic Professional Engineers (SHPE)
- Society of Women Engineers (SWE)
- Tau Beta Pi/Alpha Society (Engineering Honor Society)

For more information, visit mtu.edu/geo
906-487-2531 | geoworks@mtu.edu
Apply free online at mtu.edu/apply
Senior Design, Enterprise, and Research
All students in the College of Engineering at Michigan Tech participate in Senior Design, Enterprise, or undergraduate research programs.

Michigan Tech’s Senior Design program connects students and industry through challenging projects that have an open-ended design solution. Our Senior Design teams are formed based on student background, interests, and strengths. Over the course of two semesters, you’ll benefit from working closely with an industrial partner and a faculty advisor who can provide both technical expertise and project guidance.

Enterprise at Michigan Tech is when students—of any major—work in teams on real projects, with real clients, in an environment that’s more like a business than a classroom. With coaching and guidance from faculty mentors, our 25+ Enterprise teams work to invent products, provide services, and pioneer solutions. Academic advisors and faculty in our department can provide recommendations about which teams are best suited for you based on your interests.

You may also choose to participate in undergraduate research at Michigan Tech. Opportunities to work with faculty mentors on research projects are available as early as sophomore year and topics are wide-ranging.

About the College of Engineering
For more than 135 years, Michigan Tech has been committed to inspiring students, advancing knowledge, and innovating technological solutions to create a sustainable, just, and prosperous world. With 17 degrees to choose from—and 160 faculty in the College of Engineering alone—students get to know their professors on a first-name basis and have greater access to labs, equipment, and research opportunities than at other schools. We prepare students to tackle challenges in the classroom head-on, so they’re ready for what tomorrow needs.

About Michigan Tech
Michigan Technological University is a public research university founded in 1885 in Houghton, Michigan. The University offers more than 125 undergraduate and graduate degree programs in science and technology, engineering, computing, forestry, business and economics, health professions, humanities, mathematics, social sciences, and the arts. The rural campus is situated just miles from Lake Superior in Michigan’s Upper Peninsula and is home to more than 7,000 students.

For more information, contact:
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