Stature

The Civil and Environmental Engineering Department includes more than 50 faculty and professional staff, close to 500 undergraduate students, and more than 80 full-time graduate students (40 percent of whom are in doctoral programs).

The program is housed in the new $44-million Dow Environmental Sciences and Engineering Building and the newly renovated Dillman Hall.

World-class petrography capabilities are available for characterization of concrete microstructure and other civil engineering materials.

Students have more than 25 state-of-the-art laboratories for their academic and research pursuits.

The department houses the $3.8-million Thompson Scholars Pavement Enterprise and virtually unparalleled facilities for asphalt binder and mixture characterization.

About Michigan Tech and Houghton

Michigan Tech, founded in 1885, has gained world-wide recognition for innovative education and scholarship.

Our graduate students receive intensive, advanced instruction and the opportunity to pursue wide-ranging research.

Houghton lies in the heart of Upper Michigan’s scenic Keweenaw Peninsula. The campus overlooks Portage Lake and is just a few miles from Lake Superior. The area’s expansive waters and forests, including the University’s 600-acre recreational forest adjoining campus, offer students unparalleled opportunity for outdoor recreation.

Houghton has a population of 7,400 residents. The University’s more than 6,600 students from many states and foreign countries make the area a vibrant multicultural community.

Houghton is rated the safest college town in Michigan and the eighth-safest in the nation. It also has been called one of the nation’s top-ten summer sports areas, and one of the top-ten best places in the country to live.

For More Information, Contact
Michigan Technological University
Department of Civil and Environmental Engineering
870 Dow Environmental Sciences and Engineering Building
Houghton, Michigan 49931-1295 USA
Phone 906-487-2520
Fax 906-487-2943
www.cee.mtu.edu
The Program

Civil engineering is concerned with the conception, design, construction, and operation of engineering works that benefit society.

Michigan Tech offers excellent civil engineering research opportunities that emphasize a blend of theory, practice, and creativity.

Michigan Tech’s civil engineering program is ranked nationwide in the top ten in the number of degrees awarded.

Degrees

MS in Civil Engineering
Master of Engineering
The Master’s International Program combines graduate studies with training and service in the US Peace Corps.
PhD in Civil Engineering

Research

Research funding exceeds $4.5 million per year. Current research focuses on five areas of study (separate MS and PhD degrees are available for Environmental Engineering).

• Construction engineering and management: planning, scheduling, construction productivity, environmental construction practices, international environmental policy, impact of social issues on strategic planning
• Geotechnical engineering: applied geomechanics, mechanics of seismic signals, foundation engineering, geophysical methods applied to transportation problems
• Structural engineering: concrete, steel, and timber design, structural reliability, methods of structural analysis, earthquake engineering, finite elements, materials testing, reinforced concrete design, and pre-stressed concrete
• Transportation engineering: durability of concrete and asphalt materials, highway planning and safety, pavement maintenance and rehabilitation, airport planning, high-performance concrete, pavement deterioration, people movers

You can be a part of the endeavor to find solutions to world problems.

We offer a collegial atmosphere for study and research.

• Water resources engineering: hydrology, hydraulics, sediment transport, water resources systems analysis, watershed restoration, remote sensing

Additional Opportunity

Interdisciplinary research is routine and can involve research/outreach centers like the Remote Sensing Institute and the Local Technical Assistance Program (LTAP). LTAP serves as the Technology Transfer effort of the Federal Highway Administration’s Office of Professional Development.

Financial Assistance

Research assistantships, teaching assistantships, and fellowships are available to qualified applicants.

“The classes are informative. The pros are enthused about what they’re teaching and always have time for you if you need help. It’s a very personal education in a beautiful area with lots of outdoor activities.”

—Andrea Kvasnak, Middlebury, Vermont PhD candidate in civil engineering