Michigan Technological University is an equal opportunity educational institution/equal opportunity employer.

Since 1885, we have offered educational excellence in beautiful Upper Michigan. Our students create the future in arts, humanities, and social sciences; business and economics; computing; engineering; forestry and environmental science; natural and physical sciences; and technology.

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**CIVIL & ENVIRONMENTAL ENGINEERING**

Our department offers two distinct programs—civil engineering and environmental engineering. Both programs provide a strong background in engineering, science, and community-oriented training to serve society and protect the environment.

There are a number of excellent reasons to choose civil or environmental engineering at Michigan Tech:

**Supportive, Collegial Atmosphere**
Our faculty are both nationally recognized and student-friendly.

**Solid Rankings**
Our department is consistently ranked in the top twenty for the number of civil engineering and environmental engineering degrees awarded.

**Real-world Experience**
We have one of the highest co-op rates on campus, both because of demand for our students, and their great motivation and interest. Many students obtain summer internships.

**International Study**
Opportunities are available to pursue the program in Australia, Bolivia, Finland, Germany, Ghana, and other locations around the world.

**Excellent Resources**
Our state-of-the-art laboratories include a pilot-scale Environmental Simulation Lab and state-of-the-art asphalt and concrete materials labs.

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Working as an engineer in the upcoming decades, you will have a chance to play a critical role in making the world a better place. In fact, students at Michigan Tech are getting a head start towards helping the sustainable development, advanced energy technologies, community-based initiative, and social change that are part of our future.

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**WHY CHOOSE MICHIGAN TECH?**

- **CREATE THE FUTURE**
- **WANTED:** creative, intelligent, dedicated people to rebuild our civil infrastructure, protect the environment, serve society, and improve the quality of life.

**Michigan Tech**

**CIVIL & ENVIRONMENTAL ENGINEERING**

4th Floor Environmental Sciences and Engineering Building
1400 Townsend Drive
Houghton, MI 49931-1295
T: 906-487-2520
F: 906-487-2943
E: cee@mtu.edu

www.cee.mtu.edu

**D80 Center**
Seeking an opportunity to put your new engineering skills to work in the developing world? Michigan Tech’s D80 Center is dedicated to assisting the most vulnerable 80 percent of humanity in meeting their basic needs for food, water, shelter, sanitation, energy, income, and education. By being a collaboration of nineteen programs on campus, including Engineers Without Borders, Michigan Tech is able to work with over 100 national and international organizations to provide assistance wherever it is needed.

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As a civil engineer, you will be a problem-solver who designs the infrastructure that supports society. Civil engineers design the roads, bridges, tunnels, airports, harbors, and canals that make up our cities and towns. They also design systems that manage water and waste, like sewers and storm drains. Civil engineers work to ensure that our infrastructure is safe, efficient, and sustainable.

Career Options
You could become a design engineer for a consulting firm, a project manager for a construction company, or a research engineer for a government agency.

Many people are concerned with the environment, but many environmental engineers do not actually prevent damage or pollution. As an environmental engineer, you may work with experts in the fields of biology, chemistry, or geology to analyze data, develop solutions, and design systems to prevent or mitigate environmental problems.

Undergraduate research at Michigan Tech is a student's first chance to work with a faculty mentor. As an undergraduate research assistant, you will gain valuable experience and develop critical thinking and problem-solving skills. Undergraduate research offers the opportunity to work on cutting-edge research projects and to contribute to the advancement of knowledge in your field.

Environmental engineers are the people responsible for solving environmental problems. They work to ensure that our environment is healthy, clean, and safe. As an environmental engineer, you will apply your knowledge of science and engineering to protect the environment. You will seek new ways to keep our air, water, and land clean and healthy. You will also work to prevent damage and pollution from happening in the first place.

You can gain valuable experience in industry and government through our Cooperative Education Program. In the Cooperative Education Program, you will gain practical experience while earning your degree. You will work for a company or government agency during the summer months and return to Michigan Tech during the academic year to continue your studies.

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Tubingen, Germany

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Tubingen, Germany

www.cee.mt
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Career Options
You could become a design engineer for an engineering firm, an atmospheric scientist for the US Environmental Protection Agency, a landscape architect for a local government, a construction manager for a construction company, or a research scientist for the National Science Foundation. Civil engineers work for the federal government, including the Department of Transportation, US Army Corps of Engineers, US Forest Service, and Department of the Interior.

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As a civil engineer, you will be a designer who turns the creations of science and technology into infrastructure solutions. You might work for a private company, a government agency, or a non-profit organization. Civil engineers create solutions to problems in transportation, water, and public safety. They design roads, bridges, buildings, and other structures that are necessary for daily life.

Career Options
You could become a design engineer for a construction firm, a project manager for a government agency, or a consultant for an environmental engineering firm. You might work in areas such as bridge design, construction management, or project planning.

Undergraduate Research
Michigan Tech’s Civil Engineering Department offers a variety of research opportunities for undergraduate students. You could work on projects ranging from sustainable design to structural analysis. Some of the projects focus on infrastructure problems, such as improving transportation and water systems.

CIVIL ENGINEERING
 degree. To obtain a master’s or doctoral degree, you must have a bachelor’s degree in civil engineering. If you are interested in graduate school, you can contact your university’s graduate school office or visit its website for more information.

Sustainable Design
It takes teamwork to bring creative ideas to life. Working with your peers, you’ll learn the latest in sustainable design through a group of innovative civil engineering students. You’ll work on projects for real clients in the field of civil engineering.

Bike Program
The Michigan Tech Bike Program is one of the best in the nation. It offers you the chance to advance your skills and knowledge in civil engineering. You’ll get hands-on experience in real-world projects.

Senior Design
You can choose from more than thirty projects each year, including small teams on a regional project and two bridge projects. Other examples include working on two water projects, a group of nineteen CEE students went to Panama to work on a project there—one not bound by national borders. For instance, the program offers a unique five-week railroad course, including two weeks of on-campus projects and two weeks of overseas projects.

www.cee.mtu.edu

ENVIRONMENTAL ENGINEERING
Many people are concerned with the environment, but many environmental engineers actually prevent damage and improve it. Environmental engineers are trained to solve problems related to water, soil, air, and noise. They design and operate systems to protect the environment. These engineers are the people who actually prevent damage and improve it.

Career Options
You could become an environmental engineer for a construction firm, a government agency, or a non-profit organization. You might work in areas such as pollution control, renewable energy, or energy efficiency.

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As a civil engineer, you will be a problem solver, designing systems to meet the needs of a growing nation. You will learn to anticipate the impact of your work on the environment, society, and economy. Civil engineering is a dynamic field that offers opportunities for creativity and innovation. You can choose from a wide variety of career paths, from designing bridges and buildings to developing sustainable energy solutions. Civil engineers are essential to the functioning of our society, and their work has a direct impact on the quality of life for millions of people.

Career Options

You could become a design engineer for a construction firm, where you would work on projects ranging from small houses to large commercial buildings. Alternatively, you could work for a government agency, where you would help plan and manage public projects, such as roads, bridges, and public transit systems. Civil engineers are also in demand in the private sector, where they work for engineering firms, construction companies, and other businesses.

Environmental engineers are also in high demand, as the need for cleaner air, water, and land continues to grow. Environmental engineers design systems to protect the environment, such as water treatment plants, sewage treatment facilities, and waste management systems. They also work on solving pollution problems, such as air pollution from industry, water pollution from agriculture, and soil pollution from landfills.

Environmental engineers are also involved in developing new technologies and processes to reduce the impact of human activities on the environment. They work with industry and government to develop regulations and standards to protect the environment. They also work with communities to address environmental issues, such as hazardous waste disposal and community planning.

Civil engineers also have opportunities to work in the private sector, where they can work for engineering firms, construction companies, and other businesses. Civil engineers can work on a wide variety of projects, from designing buildings and bridges to developing new technologies.

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Path
1. Study construction materials, such as concrete, consumer electronics, or alternative energy sources. Meet your passion and energy for the future.
2. The typical degree for a senior engineer is 4-5 years, unless you pursue a master’s or PhD to advance your career.
3. Many professionals work both in industry and in academia.

Results
1. Engineering students benefit from a supportive, collegial atmosphere. Our faculty are both nationally recognized and student-friendly.
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Photo: Robert de Jonge

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