Our name is...

Technicians and technologists do specialized, technical work. Our programs in technology stress practical applications and require less math than the bachelor’s programs in engineering and forestry.

Our graduates work for consulting firms, government agencies, manufacturing firms, utility companies, and environmental organizations. Job opportunities are excellent, and our graduates frequently have more than one job offer.

Technology at Michigan Tech

We offer degrees in a wide variety of programs.

Associate in Applied Science (two-year programs)

- Chemical Engineering Technology
- Civil Engineering Technology
- Electrical Engineering Technology
- Electromechanical Engineering Technology
- Forest Technology

Bachelor of Science (four-year programs)

- Engineering Technology
  Options:
  - Electrical Engineering Technology
  - Mechanical Engineering Technology
- Surveying

Hands on

In the School of Technology, you’ll spend 40 to 50 percent of your studies in intensive, hands-on training. You’ll gain high-level skills that can be put to immediate use in industry.

We’re housed in the spacious Electrical Energy Resources Center, and our computing equipment will give you experience in computer-aided drafting, including AutoCAD and IDEAS software, and engineering applications.

You’ll be able to work with students in Michigan Tech’s engineering and forestry programs, learning the team-building skills that are critical in the workplace.

You might want to continue your education, and Michigan Tech gives you plenty of options. Students who earn AAS degrees in Electrical or Electromechanical Engineering Technology may enter the BS in Engineering Technology program. You might also consider one of Michigan Tech’s bachelor’s degree programs in engineering or forestry. And civil engineering technology graduates often choose to earn a BS in Surveying.
Bachelor’s Degree Programs

Engineering Technology—BS
If you’re a doer, you’d be a great technologist—applying engineering, science, math, and business skills to the practical problems of industry. The BS in Engineering Technology program gives you a choice of two options:

➤ electrical engineering technology

*Electrical Engineering Technology Electives*

- EET2390 Power Systems
- EET3341 System Administration and Network Administration Basics
- EET4367 Wireless Communication
- EET4373 Advanced Programmable Controllers

➤ mechanical engineering technology

*Mechanical Engineering Technology Electives*

- MET4131 Advanced Instrumentation
- MET4350 Heating, Ventilation, and Air Conditioning
- MET4375 Applied Energy Systems
- MET4390 Internal Combustion Engines
- MET4400 Manufacturing Simulation
- MET4450 Manufacturing Process
- MET4460 Product Design and Development
- MET4700 Applied Mechanical Vibrations

Technologists work in many fields, including mechanical design, manufacturing, physical plant operations and management, and quality control. Though they often work in the same areas as our two-year technology graduates (technicians), technologists typically take on more-complex tasks and greater responsibility.

After completing an AAS degree in technology at Michigan Tech, it typically takes two additional years to earn a BS in Engineering Technology. Course work includes a senior project and study in communications, business, social sciences, and humanities.

Surveying—BS
Surveyors use specialized equipment to take very accurate measurements of the physical features of the earth. The data they collect is used to develop maps, plats, and plans depicting topography.

As an MTU surveying student, you’ll use high-precision optical and electromechanical instruments for measuring angles, elevations, and distances. You’ll also have access to modern electronic equipment to collect and interpret data.

Graduates of MTU’s civil engineering technology program often decide to complete a BS in Surveying.

Most states require surveyors to be licensed or registered, and Michigan is among those requiring surveyors to complete a bachelor’s degree in surveying. In combination with an apprenticeship program, earning Michigan Tech’s BS in Surveying degree qualifies you to take the licensing exam required by most states.

Employers of MTU surveying graduates include the US Department of the Interior, consulting firms, and land-holding companies.
Associate Degree Programs

Chemical Engineering Technology—AAS
A degree in chemical engineering technology will prepare you to work as a process operator in the chemical/material industries. The technicians’ high-level skills are in great demand, as manufacturing processes become more computerized and sophisticated. You will study and work in Michigan Tech’s Process Simulation and Control Center, a state-of-the-art chemical manufacturing facility.

Our graduates are in high demand, and are employed with companies such as Dow Corning, Dow Chemical, Eli Lilly and Company, and 3M Company.

Civil Engineering Technology—AAS
As a civil engineering technician, you’ll work on all types of construction projects—airports, bridges, highways, dams, pipelines, and high-rise buildings. Typical duties include inspecting construction projects; construction and property surveying; materials testing; computer-aided drafting (CAD); and testing soil, concrete, and bituminous mixtures.

The curriculum includes course work in
- soils
- cemented aggregates (concrete and asphalt)
- contracts and specifications
- surveying
- technical drawing
- CAD
- hydraulics

Our graduates are employed by many state and local transportation departments, as well as companies such as Detroit Edison, General Motors, Tenneco, Dow Corning, and Black and Veatch.

Electrical Engineering Technology—AAS
Electrical engineering technicians take innovative electronic designs through planning and testing to final production. As an electrical engineering technician, you’ll play an important role in the design, development, and production of computers, as well as in generating and distributing electric power.

As an electrical engineering technology student, you’ll take courses in
- circuits
- semiconductors
- robotics
- digital computers
- communications
- electrical power

Our graduates are employed by various industries, including AT&T, Daimler-Chrysler, Consumers Power, Control Data Corporation, General Electric, and Zenith.

Electromechanical Engineering Technology—AAS
Electromechanical engineering technicians concentrate on the electrical control of mechanical devices. They are responsible for testing and calibrating intricate control systems for computers, industrial machinery, and medical equipment. As an electromechanical engineering technician, you may also prepare charts and graphs and interpret equipment specifications, diagrams, and schematics.
Our students receive a strong background in mechanics, electrical and electronic circuitry, and engineering fundamentals. You will also study AC and DC circuits, mechanical measuring principles, production drawing, technical drawing, digital computer programming, semiconductors, electrical transducers, automatic control systems, hydraulic systems, and pneumatics and fluidics.

Electromechanical engineering technology graduates are employed by companies such as Rockwell International, Underwriters Labs, Detroit Edison, and General Motors Corporation.

Forest Technology—AAS

Forest technicians do the fieldwork required to plan and manage forestry operations in an environmentally responsible manner. They mark timber, evaluate standing timber (cruising), map lands, evaluate harvested timber (scaling), and regenerate forest stands. Forest technicians work in many fields, including forest management, recreation, logging, log buying, and fire control.

Michigan Tech offers the only forest technology program in the central Lake States that is recognized by the Society of American Foresters. Our field-oriented curriculum emphasizes forest management. Plus, you will learn about wildlife management, forest protection, recreation, forest boundary control, and forest business techniques.

The vast, beautiful forests of Michigan’s Upper Peninsula will make you want to stay forever. Students spend considerable time on MTU land and local industry forest land. They also gain hands-on experience at MTU’s 4,000-acre Ford Forestry Center.

Graduates of MTU’s forest technology program find jobs with a variety of employers, including the state natural resource agencies, the US Forest Service, Mead Corporation, and forestry consulting firms.

For more information on programs offered by the School of Technology, contact

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The Associate in Applied Science Degree programs in Civil Engineering Technology, Electrical Engineering Technology, and Electromechanical Engineering Technology in the School of Technology at Michigan Tech are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technologies, Inc., 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone 410/347-7700. The Bachelor of Science Degree program in Surveying is accredited by the Related Accreditation Commission of the Accreditation Board for Engineering and Technologies, Inc.

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