EARN A GRADUATE DEGREE IN COMPUTER ENGINEERING

COMPUTER ENGINEERING (MS, PHD)

RESEARCH OPPORTUNITIES
The computer engineering program focuses on the conception, analysis, design, integration, and evaluation of computer systems, embedded systems, computer networking, and high-assurance systems employing modern microprocessor and microcontroller devices. Research goals within the department seek to improve the performance and reliability of existing devices, as well as designing new systems around them.

The computer engineering program is closely associated with the Center for Computer Systems Research (CCSR), a participatory effort between the Department of Electrical and Computer Engineering and the Department of Computer Science. CCSR was established to foster a close collaboration between researchers across multiple disciplines at Michigan Tech to solve important problems in science and engineering. The main focus of CCSR is the design of real-time information processing systems, including specialized parallel hardware architectures, high-performance information processing software on embedded parallel processors, multimedia information processing, and computational sensing. Researchers in CCSR also work in other areas such as nanoscale VLSI circuit design, robotics, cloud computing, artificial intelligence, and computer networking.

RESEARCH FACILITIES
The ECE department has dedicated a newly refurbished floor to the activities of CCSR. CCSR is equipped with world-class facilities for research and education. The department has a good track record of garnering support totaling millions of dollars annually in externally funded research, grants, and contracts, affording researchers the opportunity to contribute scientific advancements to society, extending our reach to the nation and the world. Department research is funded by multiple agencies and corporations, including the National Science Foundation, the US Army, the US Air Force, and more.

FACULTY PROFILE
Our experienced faculty stay current in their fields through various research and consulting activities, as well as membership and appointments in professional societies. Several faculty hold editorial positions with major journals, including IEEE Transactions on Computers; IEEE Transactions on Consumer Electronics; Journal of Circuits, Systems, and Computers; ACM Transactions on Design Automation; International Journal of Electronics and Communications; and the International Journal of Modeling and Simulation. Members of our faculty have been named Fellows in the Association for Computing Machinery, the Institute of Electrical and Electronics Engineers, and the Society of Women Engineers.

For more information, visit www.mtu.edu/ece and www.cs.mtu.edu/html/CCSRbriefs2.html.

COMPUTER ENGINEERING SPOTLIGHT

“The computer engineering program at Michigan Tech provided me with a solid foundation from which I was able to develop critical thinking and problem-solving skills. These have been the cornerstone of my computer system design, project management, and research work. These are real-world skills, which companies like IBM value in their employees.”

Ellen Bauman
IBM Rochester
PowerVM Development

www.mtu.edu/ece
www.mtu.edu/gradschool
ADMISSION REQUIREMENTS

Application deadline: Apply by February 15 for the fall semester and August 15 for the spring semester. Applications are reviewed on an individual basis using a holistic approach. For PhD candidates, priority will be given to students with interest in existing departmental research areas.

All Students
• Graduate School application
• Statement of purpose
• Official transcripts
• GRE
• Two letters of recommendation (at least one academic reference required)

International Students
• TOEFL: Recommended score of 100 iBT for PhDs

FINANCE YOUR FUTURE

Earning your computer 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 degree.

• Graduate teaching assistantships (GTAs), graduate research assistantships (GRAs), and fellowships are available to qualified applicants. All students admitted to the Graduate School are considered for these awards.
• 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 fifty graduate degree programs in engineering, forestry and environmental sciences, computing, business and economics, natural and physical sciences, technology, humanities, and social sciences.

ABOUT HOUGHTON

Houghton lies in the heart of Upper Michigan’s scenic Keweenaw Peninsula. The campus overlooks the Keweenaw Waterway and is just a few miles from Lake Superior. The area’s waters and forests, including our 600-acre recreational forest adjoining campus, offer students unparalleled opportunity for outdoor recreation and relaxation. The University’s 7,000 students come from all fifty states and more than sixty nations, making the area a vibrant, multicultural community.

APPLYING IS EASY—AND FREE!

www.mtu.edu/gradschool/admissions/apply

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