INTERDISCIPLINARY STUDY
The computational science and engineering PhD program provides a unique opportunity to foster multidisciplinary research and instruction at Michigan Tech. The structure of the CSE program ensures that it can stay at the leading edge of current technologies and that it will be in a position to quickly incorporate and apply them to emerging scientific and engineering problems.

The computational science and engineering program has two main components: the nondepartmental CSE PhD program and the Computational Science and Engineering Research Institute (CSERI). The CSERI serves the PhD program and the entire research community at Michigan Tech. This multidisciplinary program facilitates the application of methods and techniques from the fields of computer science and mathematics to emerging problems in the sciences and engineering. The program brings together faculty and students from across campus who have a common interest in and need for computation-oriented research.

The CSE PhD program has increased flexibility and interdisciplinary breadth. It is the only PhD program at Tech that reports directly to the Graduate School, and the degree can be awarded by more than one department. A primary goal of the newly created CSE Research Institute is to foster the development of the CSE PhD program.

To learn more, visit www.cse.mtu.edu.

CSE RESEARCH INSTITUTE
Participants in the CSE program currently share the largest concentration of computational resources available at Michigan Tech: the CSE Research Institute. The CSERI was created in 2002 as a home for researchers to collaborate on computational problems and techniques of common interest, to facilitate the development of long-range research programs, to support the CSE PhD program, and to provide access to medium- and large-scale computational facilities that would not be available otherwise.

Michigan Tech’s CSERI includes the Cray T3E supercomputer with sixty processors, the HP AlphaServer SC-40 supercomputer with four alpha processors, a NASA-provided 128-processor Beowulf cluster, the 20 dual process 2GHz PCs cluster, the Sun Enterprise 4500, the StorEdge 5200, and the Sun Ultra 5200.

CSE RESEARCH SPOTLIGHT
“My research area entails comprehensive security for the medical sector using optimized image-based identification and policy modeling. I aim to improve security within the health-care environment on two levels. First, I will solve problems associated with identification by advancing biometric algorithms in identifying patients and medical staff to develop unique identification for each individual. Second, I will design architecture and policy models to permit the secure transfer and access of data within a fixed or mobile environment.”

Guy Hembroff
PhD candidate

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

Application deadline: Apply at least one semester in advance of projected admission. Applications are reviewed on an individual basis using a holistic approach.

All Students
• Graduate School application
• Statement of purpose
• Official transcripts
• GRE required
• Two letters of recommendation

International Students
• TOEFL: Recommended score of 79 iBT

FINANCE YOUR FUTURE

Earning your CSE 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.

• The funding to support CSE students comes from many different sources. CSE students are often supported as research or teaching assistants by their “home” department.
• 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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