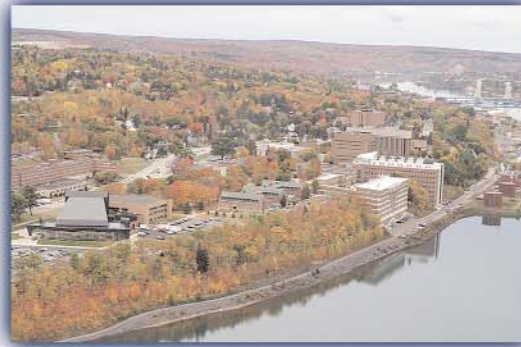


Stature

Annual computer science and engineering research expenditures exceed \$200,000.

Faculty receive funding and research support from the National Science Foundation, the Department of Defense and NASA. In addition, industrial supporters include Hewlett Packard; Compaq; and Cray, Inc.

The close collaboration among student, faculty, and their colleagues in industry and federal agencies provides a rich set of research topics and opportunities for internships and job placement.



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
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Website www.mtu.edu/grad

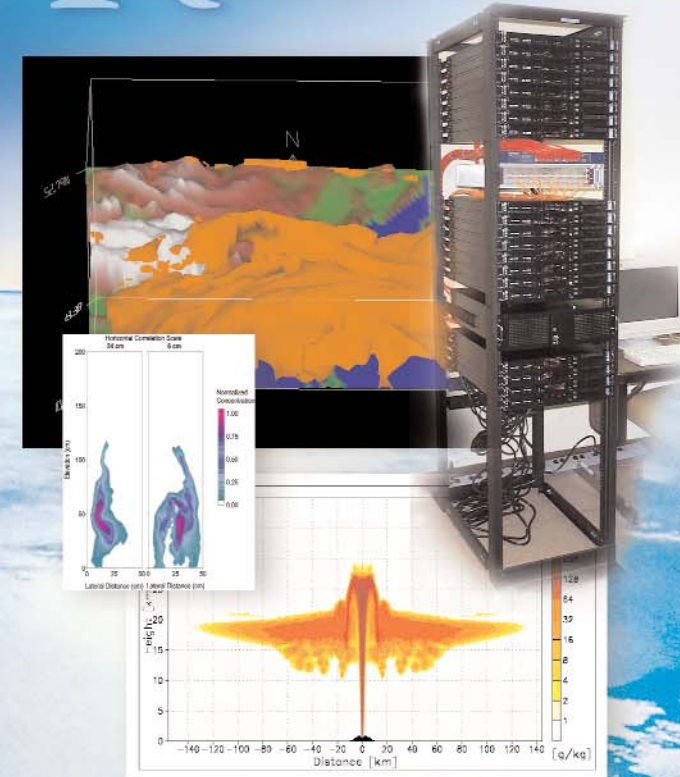
Michigan Technological University is an equal opportunity educational institution/equal opportunity employer.

MichiganTech

Graduate School

REACH

It's Time to Change the World.



Computational Science and Engineering

MichiganTech

Graduate School

REACH

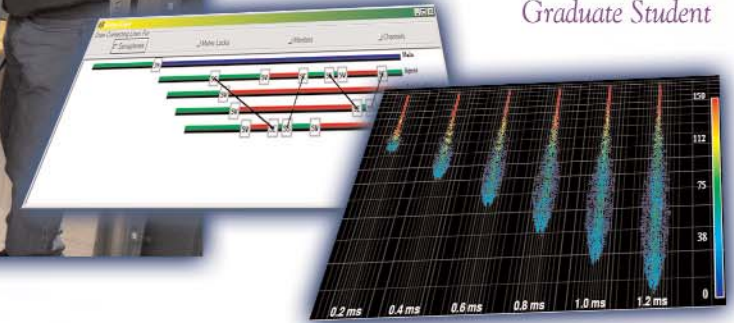
It's Time to Change the World.

Computational Science and Engineering



"CS&E allows me to pursue my continued interest in mechanical engineering while developing a strong foundation in the areas of computational science and advanced mathematics, important elements for success in my area of research."

Krista Stalsberg-Zarling
Graduate Student



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

Research

Computational science and engineering plays a major role making other projects possible. Research activities in CS&E currently involve the following disciplines:

Computer Science

- Ecology and Biomolecular Modeling
- Interprocessor Communication
- Languages, Tools and Techniques for High Performance Computing

Geological and Mining Engineering and Sciences

- Modeling Contaminant Migration in the Subsurface
- Optimization of Groundwater Remediation Systems
- Modeling Contaminant Transport in Groundwater Systems

Mathematical Sciences

- Algorithm Development and Analysis
- Computational Fluid Dynamics

Mechanical Engineering-Engineering Mechanics

- Precision Micromanufacturing Process

Physics

- Computer Simulation in Materials Physics
- Monte Carlo Simulation of Crystal Surfaces

Equipment

CS&E maintains the largest collection of research computers on campus. In addition to the SUN Enterprise 4500 and the 32 processor Pentium 4 and 128 processor Intel Pentium 6 Beowulf cluster maintained and operated within the CEC, the CS&E has enjoyed access to supercomputers at national labs, computer vendors and supercomputing centers.

Financial Aid

Financial aid is available in the form of graduate teaching assistantships and graduate research assistantships. The duties of the teaching assistant generally include lecturing or assisting in a programming laboratory for introductory undergraduate programming language courses. The duties of a research assistant generally consist of contributing to a research project under the supervision of a faculty member or research group.

The Program

The Computational Science and Engineering program at MTU enhances the nationally recognized research and educational opportunities at MTU through the development of problem-solving methodologies and tools for the solution of scientific and engineering problems. The application of advanced computational techniques plays an increasingly important role in all disciplines. CS&E at MTU combines the expertise of students and faculty from any department with formal education in applied computer science and mathematics. Graduates are prepared for a career in a multidisciplinary research and development organization.

Degree

PhD in Computational Science & Engineering