A GROWING CAREER FIELD
Medical informatics is the intersection of information science, computer science, and health care. This field deals with the resources, devices, and methods required to optimize the acquisition, storage, retrieval, and use of information in health and biomedicine.

This program covers the multidisciplinary field of informatics, which includes decision support systems, telemedicine, ethics, consumer health informatics, international health care systems, global health informatics, translational research informatics, and home care. You will learn how to design and implement innovative applications and promote new technologies to improve health care.

To obtain a master’s degree, you must complete the core courses in your chosen concentration and select one of three plans of study. Choose from a thesis-based degree, a report-based degree that requires the completion of a project, or a course-work-only degree that requires passing a comprehensive exam.

Our program is designed to focus on
• complex medical decisions
• evidence-based medicine
• disease management
• population health management

Established regulations, such as the Health Insurance Portability and Accountability Act (HIPAA), include specific security and compliance provisions for the health care sector. The advancement of technology in the medical field, accompanied by the requirements to keep sensitive data confidential, creates the need for a graduate program that offers medical informatics education and provides course work and study in the critical area of data security.

THE MS IN MEDICAL INFORMATICS
The Master of Science in Medical Informatics is designed to
• deepen understanding and knowledge of medical informatics and computer/information security;
• provide research opportunities within the field of medical informatics; and
• provide a flexible curriculum to allow for both traditional and nontraditional graduate students.

Graduates will be qualified to work in hospital and health care systems, health informatics firms, research laboratories, computer/information security firms, medical technology firms, public health organizations, medical software companies, insurance companies, and governmental organizations.

MEDICAL INFORMATICS FACULTY SPOTLIGHT
Jinshan Tang’s research interests include biomedical image analysis and biomedical imaging, biometrics, computer vision, and image understanding. He has published more than eighty refereed journal and conference papers and has obtained more than $1 million in grants as PI or co-PI.

Jinshan Tang
Associate Professor
School of Technology
**ADMISSION REQUIREMENTS**

**Application deadline:** Apply at least a semester in advance of projected admission to improve your chances of receiving funding. Applications are reviewed on an individual basis using a holistic approach.

- Graduate School application
- Statement of purpose
- Official transcripts
- GRE (Waived for Michigan Tech students, applicants with a previous master’s degree, and applicants with at least 5 years of health care or health IT experience)
- Three letters of recommendation
- Résumé/curriculum vitae
- Admitted students typically have an undergraduate GPA of 3.0/4.0 or better

**International Students**
- TOEFL: Recommended score of 79 iBT

**FINANCE YOUR FUTURE**

Earning your graduate 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.

- Many independent graduate students are eligible for a new set of federal loans, up to $20,500 per academic year.
- 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 seventy 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

**Medical Informatics**

School of Technology
Electrical Energy Resources Center, Room 426
Michigan Technological University
1400 Townsend Drive • Houghton, MI 49931-1295
Phone 906-487-2259 • Fax 906-487-2538
Email medical-informatics@mtu.edu
www.mtu.edu/medical-informatics

Graduate School
Email gradadms@mtu.edu or call 906-487-2327
www.mtu.edu/gradschool

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