GRADUATE SCHOOL
DEPARTMENT OF CHEMISTRY

EARN A GRADUATE DEGREE IN CHEMISTRY

CHEMISTRY (MS, PHD)

RESEARCH OPPORTUNITIES
The Department of Chemistry offers research-based programs leading to MS and PhD degrees in Chemistry, giving talented, motivated students the chance to make discoveries in chemical science, biochemistry, and related disciplines.

Departmental research is supported by several different agencies, including the National Science Foundation, the National Institutes of Health, the US Department of Agriculture, and the Environmental Protection Agency. Our students conduct research in areas as diverse as molecular probes in medicinal chemistry; design of chiral ligands and synthesis of combinatorial libraries; polymer synthesis and applications of nanoparticles, nanofibers, and biocomposites; and vibrational spectroscopy of solid-state structure.

Biochemistry projects include the development of biomolecular-nanoparticles capable of targeted drug delivery, the molecular basis of lectin-mediated immune regulation and pathogen invasion, investigation of the metabolism of inositol phosphates in plants, and understanding the relationship between protein misfolding/aggregation and disease processes.

CAREER OPPORTUNITIES
We support the professional development of graduate students through opportunities in interdisciplinary teams and the sharing of research results within and beyond campus. Our alumni are contributing their expertise to companies large and small, from Kimberly-Clark and Amgen to exciting start-ups. Michigan Tech chemistry graduates are hired by government labs, including Brookhaven and Los Alamos, as well as by universities throughout the world.

IS OUR PROGRAM RIGHT FOR YOU?
All MS and PhD students work closely with a faculty research advisor in research groups of two to six people. In this personalized environment, you become the primary expert on your topic and contribute to all aspects of the project. Students have direct, hands-on access to department instruments and often participate in interdisciplinary research. We are looking for students with a strong background in chemistry and the motivation and enthusiasm to pursue new and unsolved research questions. Degree requirements focus on research and also include course work (MS and PhD), qualifying exams (PhD), and presentation of your written thesis (MS) or dissertation (PhD).

CHEMISTRY SPOTLIGHT
“Being a graduate student at Michigan Tech was an invaluable experience. I was exposed to opportunities unavailable at larger universities while at the same time performing research in an unsurpassed environment. The faculty’s genuine interest in my education more than prepared me for a career in academia.”

Steven Johnson, PhD, 2010
Assistant Professor
Lake Superior State University
ADMISSION REQUIREMENTS
Application deadline: Fall admission decisions begin on January 1. Spring admission is rare. Applications are reviewed on an individual basis using a holistic approach.

All Students
- Graduate School application
- Statement of purpose
- Official transcripts
- GRE: Recommended Quantitative Score of 153 and Verbal Score of 144
- Three letters of recommendation
- Résumé/curriculum vitae
- Recommended GPA of 3.0/4.0 or better

International Students
- TOEFL: Recommended score of 85 iBT

FINANCE YOUR FUTURE
Earning your chemistry 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) and graduate research assistantships (GRAs) are available to qualified applicants. All students admitted to the Graduate School are considered for these awards. The majority of chemistry graduate students are supported through assistantships.
- 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 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

Department of Chemistry
Michigan Technological University
Chemical Sciences and Engineering Building, Room 607
1400 Townsend Drive • Houghton, MI 49931-1295
Phone 906-487-2048 • Fax 906-487-2061 • Email chemistry@mtu.edu
www.mtu.edu/chemistry/graduate/chemistry

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

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