BIOLOGICAL SCIENCES (MS, PHD)

WHY BIOLOGY?
Michigan Tech offers both MS and PhD degrees in Biological Sciences. Research interests cover a broad range of areas, including biochemistry and molecular biology, bioinformatics and exercise science, health sciences, plant and environmental remediation, ecology and environmental biology, invasive species, and fish biology. We offer a pre-health professions program and an optional MS degree focus in medical laboratory management (an MLS, ASCP certificate is required for this option).

Now is an exciting time to become a biologist as rapid advances in molecular biology, health science, and the mounting urgency to better understand the global ecosystem are converging to provide challenges for biologists in all disciplines. As our knowledge advances, education at the graduate level becomes increasingly necessary for a career in the biological sciences in industry, government, or academia.

INTERDISCIPLINARY OPPORTUNITIES
Faculty, scientists, and graduate students of various departments and research institutes maintain close working ties for interdisciplinary study and research. Some opportunities include work with the Biotechnology Research Center (BRC), Ecosystem Science Center (ESC), Center for Water and Society (CWS), Michigan Tech Research Institute (MTRI), and Sustainable Futures Institute (SFI), to name a few.

FACILITIES AND EQUIPMENT
The Department of Biological Sciences is located in the $44 million Dow Environmental Sciences and Engineering Building. The Dow building features a flow-through lake-water system for aquatic and limnology studies, as well as a research greenhouse. Students gain valuable experience while conducting aquatic field research on the thirty-six-foot research vessel Agassiz and on other small vessels.

A new 50,000 square foot, five-floor Great Lakes Research Center opened in 2012 to expand opportunities and partnerships in water science. A number of new faculty hires in biomedical and health sciences have expanded research opportunities in these areas.

The University has a large array of computer facilities, including extensive capabilities for statistical analysis and graphics. All graduate students in biological sciences have easy access to computer labs for data management, calculations, statistical analyses, and graphics.

BIOLOGICAL SCIENCES SPOTLIGHT
“The personal attention from biology professors and staff was exactly what I needed when I returned to school for my master’s degree. My MS education allows me to work with the Little River Band of Ottawa Indians (LRBOI), conducting fisheries research, attending multi-agency workshops, and developing fisheries policy. My experience at Michigan Tech has led me to return for my PhD.”

Marty Holtgren ’01
Senior Inland Fisheries Biologist, Natural Resources Department for LRBOI
ADMISSION REQUIREMENTS

Application deadline: For graduate teaching assistantship openings, our deadline is January 15, while applications for open graduate research assistantships are accepted all year. Please contact a faculty member in your area of interest for opportunities. Applications are reviewed on an individual basis with a comprehensive evaluation of each student.

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

MS Medical Lab Management Option
• MLS, ASCP Certificate

International Students
• TOEFL: Minimum score of 85 iBT

FINANCE YOUR FUTURE

Earning your biology 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 students in the Department of Biological Sciences receive financial aid in the form of graduate teaching assistantships (GTAs) and graduate research assistantships (GRAs).
• 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

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