**EARN YOUR GRADUATE DEGREE IN ATMOSPHERIC SCIENCES**

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**ATMOSPHERIC SCIENCES (PHD)**

**A DEGREE WITH BREADTH AND DEPTH**

The atmospheric sciences program at Michigan Tech reflects the need for a combination of breadth and depth when addressing the range of atmospheric research problems relevant today. Participating faculty span five departments and incorporate expertise and research over a wide range of areas of emphasis.

Students in atmospheric sciences take a series of three core courses in atmospheric physics, atmospheric chemistry, and atmospheric fluid dynamics and have access to a variety of elective courses in other areas of emphasis. Students gain a thorough understanding of the fundamentals of atmospheric processes and properties, which prepares them to contribute to and grow with the field.

To learn more, visit www.atmos-sci.mtu.edu.

**INTERDISCIPLINARY EDUCATION**

Michigan Tech’s PhD in Atmospheric Sciences stresses the field’s interdisciplinary nature and societal relevance. Today’s graduate students require a broad understanding of the physical, chemical, and biological processes affecting the atmosphere, combined with a thorough understanding of the fundamentals of specific atmospheric systems, in order to contribute to the solution of key atmospheric sciences questions.

Pursue a wide variety of research activities, ranging from field measurements to computer modeling, from studies of air pollution transport and chemistry to studies of the fundamental processes governing cloud formation, and from studies of climate impacts on air pollution to studies of air pollution impacts on forests.

**RESEARCH**

Research is sponsored by major national funding agencies such as the National Science Foundation, National Aeronautics and Space Administration, Department of Energy, and the National Oceanic and Atmospheric Administration. The atmospheric sciences research groups oversee many specialized laboratories in multiple departments. The newly built Great Lakes Research Center on campus will house an aerosol/cloud chamber that will serve as a national research facility. Several groups have extensive field-research programs involving ground- and aircraft-based instrumentation to study particles, gases, and clouds, using both in situ sampling and remote sensing methods. Computer labs are available for use with global chemical models and analysis of data.

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**ATMOSPHERIC SCIENCES SPOTLIGHT**

"Michigan Tech was an outstanding choice for a graduate degree—the funding was always there, my PhD advisor was the best, the teachers in the atmospheric sciences classes were always helpful and easy to learn from, and office staff kept my administrative headaches to a minimum. They really care about their students. Also, going to Michigan Tech put me on the map in my research field. I’m doing the research I want to do, at internationally known institutions."

Jacob Fugal, PhD ’07
Atmospheric Scientist
Max Planck Institute for Chemistry

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www.atmos-sci.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
• Three letters of recommendation
• Bachelor’s or master’s degree in the physical sciences or engineering
• Prerequisite: mathematics through ordinary differential equations

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.

• Graduate teaching assistantships (GTAs), graduate research assistantships (GRAs), and fellowships are available to qualified applicants. All students admitted to the Graduate School are considered for these awards.
• 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

Atmospheric Sciences
Michigan Technological University
Fisher Hall, Room 111
1400 Townsend Drive • Houghton, MI 49931-1295
Phone 906-487-1961 • Fax 906-487-2933 • Email atmgrad@mtu.edu
www.atmos-sci.mtu.edu