Atmospheric Science students are answering questions like these:

- How will atmospheric composition change as human population and emissions grow in the future?
- How will the changing atmosphere affect climate, and what will be the feedbacks through the biosphere, hydrosphere and the entire earth system?
- What are the fundamental processes that govern cloud formation in the atmosphere, and how are those processes altered by human activities?
- What is the relationship between fuel combustion and health impacts of air pollution, and how can those health impacts be most cost-effectively minimized?
- What new techniques are needed to accurately model the earth-atmosphere system?

About Michigan Tech and Houghton

Michigan Tech was founded in 1885 and has gained world-wide recognition for innovative education, scholarship, and research.

Our faculty strive to be mentors, and our graduate students receive intensive, advanced instruction and the opportunity to pursue research in a wide range of academic programs.

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.

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 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 meccas, and one of the top ten best places in the country to live.

For more information, see *www.atmos-sci.mtu.edu*

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Atmospheric Sciences

MichiganTech

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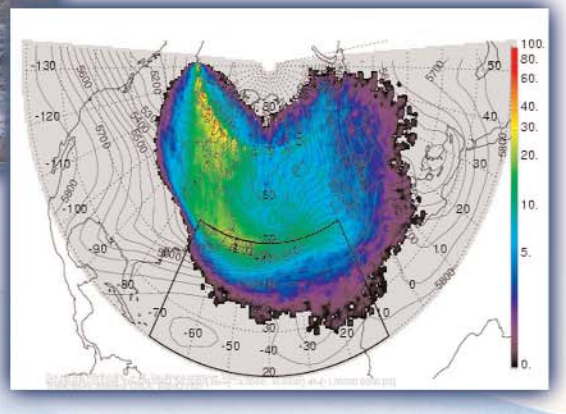
Atmospheric Sciences

The MTU Atmospheric Sciences program is highly interdisciplinary. Students study

- The fundamental chemistry and physics that govern atmospheric composition, weather, and climate;
- Human impacts on the urban, regional, and global atmosphere;
- Emissions, fate, and impacts of air pollutants.

Participating Departments include

- Biology
- Chemistry
- Civil and Environmental Engineering
- Computer Science
- Forest Resources and Environmental Science
- Geological and Mining Engineering and Sciences
- Mechanical Engineering
- Physics



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

Research and graduate study is active in each of the following areas:

- Volcano-Atmosphere Interactions
  - Remote sensing
- Atmospheric Chemistry
  - Global tropospheric chemistry
  - Aerosol chemistry
  - Persistent bioaccumulative toxics (PBTs)
  - Urban and indoor air quality
- Atmospheric Physics
  - Cloud physics
  - Atmospheric turbulence
  - Air-surface exchange
- Atmospheric Modeling
  - Numerical methods for atmospheric modeling
  - Modeling weather, climate, and the hydrologic cycle
- Air Pollutant Emissions and Control
  - Diesel engine emissions
  - Emission control techniques
- Atmospheric—Biosphere Interactions
  - Air pollutant and carbon dioxide impacts on forests
- Human Health Effects
  - Mutagenic and toxic impacts of diesel particulates
  - Hazards of fine volcanic ash

www.atmos-sci.mtu.edu