

# ME-EM

## Endowed Chair: Energy Systems

The Department of Mechanical Engineering-Engineering Mechanics (ME-EM) invites highly-qualified applicants for the Dick and Elizabeth Henes Endowed Chair in Mechanical Engineering with an emphasis in Energy Systems. It is expected that the chair holder will lead the effort to establish a national center. The position will support Michigan Tech's Strategic Faculty Hiring Initiative (SFHI) in next generation energy systems.

### Interdisciplinary Research Initiative

Michigan Tech supports collaborative interdisciplinary research among departments. The SFHI will strategically build on and expand the research in energy systems at Michigan Tech.

Research areas include:

- Power and electrical generation of renewables including wind and solar
- Improved combustion and conversion technologies with CO<sub>2</sub> capture and sequestration including biomass and waste streams

- Development of distributed power generation with co-generation and energy systems for buildings
- Energy harvesting in multi-scale systems including waste thermal, mechanical, and chemical energies
- Advanced materials for photovoltaic and battery technologies
- Distributed energy storage systems, management, and interconnection, including plug-in hybrid electric vehicles
- Biomimetic systems for energy conversion, including photo-biological processes
- Space power and propulsion, including photovoltaic, solar thermal, and nuclear generation, wireless directed energy transfer, and thruster systems

Michigan Tech is an ADVANCE institution, one of a limited number of universities in receipt of NSF funds in support of our commitment to increase diversity and the participation and advancement of women in STEM. The ME-EM Department and Michigan Tech encourages minority and female applicants. We also have a Dual Career Assistance Program (DCAP), which facilitates the hiring of partners. The website for our DCAP is <http://www.dual.mtu.edu/>. Lake Superior is just a few miles from campus and the surrounding area is perfect for all types of seasonal outdoor activities. Michigan Technological University is an Equal Opportunity Educational Institution/Equal Opportunity Employer.

Visit [www.mtu.edu/sfhi](http://www.mtu.edu/sfhi) for more information and to apply. For more information on the ME-EM Department visit [www.me.mtu.edu](http://www.me.mtu.edu).



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