Michigan Technological University, Houghton, MI

Assistant, Associate, or Full Professor, OR Professor of Practice—
Geospatial and Surveying Engineering, School of Technology

Michigan Technological University, a nationally recognized leader in science, computing, and engineering education and research, invites applications for a tenured/tenure-track or Professor of Practice faculty position in the ABET-accredited Surveying Engineering program within the School of Technology starting August 2019.

Our goal is to attract creative world-class faculty to enrich the educational and research experience of our bright, motivated, and adventurous students.

Michigan Tech is building a culturally diverse and pluralistic faculty committed to teaching and working in a multicultural environment where differences are valued and respected. Women, people from all races/ethnicities, differently-abled individuals, and veterans, as well as multicultural and intersectional individuals are encouraged to apply.

The Surveying Engineering faculty are responsible for offering the BS in Surveying Engineering (with Surveying and Geoinformatics emphasis areas) and the MS in Integrated Geospatial Technology. Surveying Engineering program courses are also used in fulfillment of the Geospatial technical emphasis for the BS in Engineering degree offered by the College of Engineering, and for the Surveying Engineering minor for Civil Engineering students. Our program has the latest surveying, GNSS, LIDAR, UAS, and photogrammetric equipment and software. Faculty and students are involved in several applied research projects including collaborative projects with Computer Science, Industrial Archaeology, Cognitive Sciences, Forestry, and Geology.

Responsibilities
We seek an enthusiastic geospatial educator and researcher who will involve students in research projects, fieldwork, and data processing, mentor students in their senior capstone projects, and prepare students for careers in surveying and geospatial professions. The successful candidate will collaboratively develop and teach undergraduate/graduate classes and laboratories, create innovative instructional materials and laboratory experiences, develop external funding for applied research and projects with industry, establish and sustain a record of scholarly achievement, contribute to program assessment and accreditation activities, student advising, and other departmental service. Opportunities for research collaboration are prevalent across the University. Along with other faculty in the program, the candidate should actively participate at NSPS, ASPRS, ISPRS Commission V, WG, VII, and FIG activities.

Teaching responsibilities will include applied geodesy, computations and adjustments, geospatial monitoring, hydrographic mapping and capstone projects. Responsibilities may also include targeted geospatial educational components for civil engineers and other majors, close-range/UAV photogrammetry, and other courses of both a theoretical and hands-on nature at junior through senior and graduate levels.

Qualifications
To be considered for a tenure track position, the successful candidate must possess: (1) an earned PhD in geomatics or a closely related field from an accredited institution; and (2) a passion to conduct applied research and develop partnerships with industry/other.
To be considered for a Professor of Practice position, the successful candidate must possess: (1) an earned MS degree in geomatics or a closely related field from an accredited institution; and (2) evidence of relevant industry experience.

In addition, the successful candidate must possess: (1) strong oral and written communication, computer, and presentation skills; and (2) a relevant academic or experiential background in geodetic sciences (geodesy, photogrammetry, cartography) or geospatial engineering (surveying, remote sensing, GIS).

Applications are encouraged from individuals with experience in effective and engaging teaching and with a background in emerging geospatial areas such as: mobile mapping systems; aerial and terrestrial LIDAR scanning; 3D modeling and BIM; geospatial monitoring; geospatial big data; UAS development for mapping purposes; geodetic positioning; theory and application of GPS and GNSS; automated cartography; and GIS-based visualization.

Priority will be given to candidates who are currently licensed or are qualified and intend to become a Licensed Professional Surveyor, Certified Photogrammetrist or Mapping Scientist, along with demonstrated experience developing geospatial solutions. Relevant professional licensing or certification are desirable, along with relevant industry or government experience.

**Application Information**

Review of applications will begin immediately and continue until the position is filled. Interested individuals should submit a:

- cover letter indicating interest in the Surveying Engineering faculty position, available start date, and a description of experience for the qualifications listed above;
- detailed curriculum vitae;
- teaching statement containing teaching philosophy, interests, and portfolio;
- research statement containing research plans; and
- discussion of past efforts in diversity and inclusion and future plans to educate and include every student, regardless of background.

Applicants will be asked for contact information for three current references. Letters of reference will be requested for candidates advancing to a short list.

Applications may be submitted online at: [https://www.jobs.mtu.edu/postings/7398](https://www.jobs.mtu.edu/postings/7398)

**Further Information**

Information about the School of Technology, along with the curriculum and course descriptions, can be found online at: [http://www.tech.mtu.edu/](http://www.tech.mtu.edu/). Questions can be directed to Dr. Eugene Levin at elevin@mtu.edu.

Michigan Tech is an internationally renowned doctoral research university located in Houghton, Michigan, in the scenic Upper Peninsula on the south shore of Lake Superior. The area provides a unique setting where natural beauty, culture, education, and a diversity of residents from around the world come together to share a superb living and learning experience.

Michigan Tech is an ADVANCE Institution receiving two National Science Foundation grants to increase the participation and advancement of women and underrepresented/underserved individuals in STEM.

Candidates are invited to bring a guest to an on-campus interview; additional details on dual career explorations in our Partner Engagement Program can be found here: [http://www.mtu.edu/provost/programs/partner-engagement/index.html](http://www.mtu.edu/provost/programs/partner-engagement/index.html).

*Michigan Technological University is an Equal Opportunity Educational Institution/Equal Opportunity Employer, which includes providing equal opportunity for protected veterans and individuals with disabilities.*