Join Michigan State University’s Global Impact Initiative, designed to address the grand challenges through the creation of over 100 new faculty positions in some of the most promising and exciting fields of research. MSU offers an inclusive and collaborative work environment, and welcomes applicants from diverse backgrounds.

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CIVIL AND ENVIRONMENTAL ENGINEERING

Faculty Positions in Risk and Reliability

The Department of Civil and Environmental Engineering (CEE) at Michigan State University (MSU) invites applications for two tenure-system faculty positions in the general area of risk and reliability. These are open-rank positions and the successful candidates will possess a strong background in risk assessment and risk management related to critical contemporary issues civil or environmental engineering. Applicants with expertise in one or more of the following areas are especially encouraged to apply:

- Transportation engineering; including highway safety, human factors and road user performance; traffic operations and control; and connected/automated vehicles.
- Hydrology and water resources engineering, including extreme weather events and associated risks (storms, flooding, erosion, etc.) to urban water infrastructure and other complex water systems (e.g., the water-food-energy nexus).
- Risk-based structural design and assessment (covering extreme events, including those associated with climate change) and probabilistic mechanics.
- Assessment and management of risks associated with water quality and health in urban drinking water systems and environmental contaminants; understanding of the physical, chemical and biological processes leading to exposure; and risk reduction strategies and technologies.

Applicants must hold an earned doctorate in a field related to the position focus, and demonstrate exceptional promise for high-quality research, teaching, and professional development. Strength in probabilistic and statistical methods is highly desirable. The candidate is expected to establish a robust, externally funded research program that supplements current Department, College, and University strengths, in addition to creating new research thrusts. The appointee will be responsible for teaching
undergraduate and graduate courses as part of the CEE department curricula. The ability to conduct interdisciplinary research, both within and outside the department, is highly desirable.

The CEE department currently has 25 tenure system faculty members, with approximately 516 undergraduate and 122 graduate students. Degrees in both civil engineering and environmental engineering are offered at the BS, MS and PhD levels. Annual research expenditures are approximately $6.9 million. The Department currently houses several research and outreach centers, including: the National Center for Pavement Preservation and the University Transportation Center for Highway Pavement Preservation. Additional research resources include the Civil Infrastructure Laboratory, the Center for Structural Fire Engineering and Diagnostics, the Environmental Science & Policy Program, the Water Science Network, and the Institute for Cyber-Enabled Research. For further information about the Department, please visit https://www.egr.msu.edu/cee/.

MSU enjoys a park-like campus with outlying research facilities and natural areas. The campus is adjacent to the city of East Lansing and the capital city of Lansing. The Lansing metropolitan area has a diverse population of approximately 470,000. Local communities have excellent school systems and place a high value on education. Michigan State University is pro-active in exploring employment opportunities for dual career couples, both inside and outside the University. Information about MSU’s dual career support can be found at http://miwin.msu.edu/. Additional work/life resources for MSU and the College of Engineering can be found at http://www.egr.msu.edu/WE.

Interested individuals should submit an application for this position through http://careers.msu.edu/ and refer to job 470022. Applicants must submit a detailed resume, a teaching and research plan (3 pages maximum), and the names and contact information for at least three references. The application should be accompanied by a cover letter stating the position specialty area and a brief statement of interest in the position. Applications will be reviewed on a continuing basis until the position is filled. Applications should be received by December 01, 2017 for full consideration. Nominations or questions are welcome by contacting the search committee chair through email at CEE-RISK-Search@egr.msu.edu.

Michigan State University has been advancing the common good with uncommon will for more than 160 years. A member of the Association of American Universities, MSU is a research-intensive institution with 17 degree-granting colleges.

MSU is an affirmative action, equal opportunity employer and is committed to achieving excellence through cultural diversity. The university actively encourages applications and/or nominations of women, persons of color, veterans and persons with disabilities. Job applicants are considered for employment opportunities and employees are treated without regard to their race, color, religion, sex, sexual orientation, gender identity, national origin, disability or veteran status.