CIVIL & ENVIRONMENTAL ENGINEERING
UNIVERSITY OF MICHIGAN

FACULTY POSITION OPENING

ABOUT THE POSITION

The Department of Civil and Environmental Engineering (CEE) at the University of Michigan invites applications for an open-rank, tenure-track faculty position in the area of Intelligent Systems, with an emphasis on the department's strategic directions in the areas of Human Habitat Experience, Adaptation, and Autonomy. Our nation's infrastructure is in the midst of a dramatic transformation, due to the increasing adoption of ubiquitous sensing, actuation, and embedded computational intelligence. The proliferation of these technologies constitutes a sea of change in the way we view, operate, and study human habitats. Rather than being static, they have become dynamic and responsive, and capable of autonomously adapting in real-time to changing expectations, loads, and circumstances. This new faculty position will build on the CEE Department's established reputation for innovation and intellectual leadership in this area, and is commensurate with its strategic vision (https://strategicdirections.cee.engin.umich.edu). It will also complement the University of Michigan's existing strengths in the broad area of systems engineering and data science.

The search seeks candidates who conduct fundamental research in system-level techniques common to cyber-physical technologies, including (but not limited to) the areas of artificial intelligence, data science, control and decision theory, signal processing, sensing, and information theory. It is anticipated that a successful candidate will have developed a body of work in which civil infrastructures and environmental systems are the core application domain. Examples include (but are not limited to) research pertaining to transportation networks, energy systems, water infrastructure, construction engineering, smart buildings and communities, and urban informatics.

The preferred start date for the position is August 28, 2023. To be considered for this position, a PhD (or equivalent) degree or current enrollment in a PhD-granting program is expected. A successful candidate would be encouraged to collaborate with researchers in other departments and colleges across the University and to demonstrate abilities to translate fundamental advances into practice. Candidates are expected to develop new courses that complement CEE's existing undergraduate and graduate curricula.

We seek faculty members who embrace our culture of Diversity, Equity, and Inclusion (DEI). The University of Michigan has a storied legacy of commitment to Diversity, Equity and Inclusion (DEI). Michigan Engineering models that commitment in our research, culture and collaborations. We seek to recruit and retain a diverse workforce as a reflection of that commitment. Learn more about DEI in Michigan Engineering at https://www.engin.umich.edu/culture/diversity-equity-inclusion/. The Civil and Environmental Engineering Department's additional DEI initiatives may be found at https://cee.engin.umich.edu/about/diversity-equity-and-inclusion/.

Please visit our website at: https://cee.engin.umich.edu/about/faculty-search/ to submit your application, including (1) Cover letter, (2) Curriculum vitae, (3) Statements of research interest and its alignment with the search theme and the CEE Department's strategic vision, (4) Statement of teaching philosophy, (5) Statement of diversity, equity and inclusion (DEI) philosophy, (6) A maximum of three representative research products, and (7) Names and contact information for five references (only three references necessary for applicants at the Assistant Professor rank). Review of applications will begin on December 1, 2022 and will continue until the position is filled. Inquiries regarding this position may be directed to Professor Jeff Scruggs, the Search Committee Chair, jscruggs@umich.edu.

Michigan Engineers are world-class educators, researchers, students and staff who strive to build a future that puts people first. As part of the nation's number one public research institution, Michigan Engineering's mission is to provide scientific and technological leadership to the people of the world, develop intellectually curious and socially conscious minds, create collaborative solutions to societal problems, and promote an inclusive and innovative community of service for the common good. Our vision, mission and values are supported by a people-first engineering framework that guides our work. As Michigan Engineers, we strive to apply excellent engineering fundamentals, integrated expertise and equity-centered values to reimagine what engineering can be, close critical gaps, and elevate all people. Information about our vision, mission and values can be found at: http://strategicvision.engin.umich.edu/.

The University of Michigan is a premier public university with top-rated engineering, medical, law, and business programs, and is an equal opportunity/affirmative action employer. The College of Engineering (CoE) at the University of Michigan is dedicated to the goal of building a culturally and intellectually diverse environment. Research and education in the areas of data and systems science is highly collaborative and cross-disciplinary, with specialists housed in almost all of the CoE's 14 Departments who work together as parts of a single community. This community also enjoys active collaborations with many other campus entities, including the University of Michigan Transportation Institute, MCity, Michigan Institute for Computational Discovery and Engineering, Michigan Institute for Data Science, the Taubman College of Architecture and Urban Planning, the School of Information, and the Social Science Research Institute.

U-M COVID-19 Vaccination Policy
COVID-19 vaccinations, including boosters when eligible, are required for all University of Michigan students, faculty and staff across all campuses, including Michigan Medicine. This includes those working remotely. More information on this new policy is available on the U-M Health Response website or the U-M Dearborn and U-M Flint websites.

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