



# Global Impact Initiative

## MICHIGAN STATE UNIVERSITY

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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.

To learn more visit <http://research.msu.edu/global-impact>.

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### **College of Engineering Faculty Positions in Autonomous and Connected Systems**

The College of Engineering at Michigan State University invites applications for multiple tenure-system faculty positions in the area of autonomous and connected systems. These positions are part of a major MSU initiative, CANVAS (Connected and Autonomous Networked-Vehicles for Active Safety), which focuses on conducting advanced research in the area of autonomous and connected vehicles. As the nation's pioneer "land-grant" university and the largest academic institution in the state of Michigan, MSU has a long tradition of partnering with public and private enterprises in automation and major companies in the automotive industry. The CANVAS initiative at MSU aims at creating a close partnership between MSU and the automotive industry to enable advanced technologies and provide educational and student engagement opportunities in support of the most transformational period in mobility.

The successful candidates will be part of a multi-disciplinary team of faculty, graduate and undergraduate students working on broad engineering and science problem areas. These areas include:

- Deep learning, machine learning and artificial intelligence for autonomous systems
- Statistical signal and information processing for stochastic robotics
- Multi-modal sensing and sensor fusion for robotics and autonomous systems
- Distributed control and optimization for connected autonomous systems
- Wireless communications and distributed networking for autonomous connected systems
- Embedded cybersecurity

The open positions will be filled at the levels of Professor, Associate Professor, and/or Assistant Professor depending on the qualifications and record of the successful candidates. The candidates are expected to establish a sustainable research program, make significant scholarly contributions to their discipline, be an effective teacher and mentor of both undergraduate and graduate students, and engage in institutional and professional service. Each faculty position will be an appointment in one of the following College of Engineering departments: Electrical and Computer Engineering (ECE), Computer Science and Engineering (CSE), and the newly formed Department of Computational Mathematics, Science and Engineering (CMSE). One or more of these positions might be joint appointments in two departments within the College of Engineering. Candidates should have a Ph.D. in a closely related field, with demonstrated evidence of research accomplishments, teaching skills, and ability to work effectively with other researchers within the Department and colleagues on campus. Appointments will start in August 2018.



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

Interested applicants should submit the following documents at <http://careers.msu.edu> and refer to posting #468403.

1. cover letter
2. curriculum vita
3. names and contact details of at least three references
4. research statement including a description on how the applicant's research would benefit the CANVAS initiative
5. teaching statement outlining the applicant's teaching philosophy and teaching interests.

Applications will be reviewed on a continuing basis until the positions are filled. Review of applications will begin on January 15, 2018. For questions about these positions, contact the search committee chair at [canvas-faculty-search@egr.msu.edu](mailto:canvas-faculty-search@egr.msu.edu).

**Additional information about the university, college and department is available at:**

CANVAS Initiative - <https://canvas.msu.edu>

ECE Department - <https://ece.msu.edu>

CSE Department - <http://www.cse.msu.edu>

CMSE Department - <https://cmse.msu.edu>

College of Engineering - <http://www.egr.msu.edu/>

MSU - <http://www.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.