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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COMPUTATIONAL MATHEMATICS, SCIENCE AND ENGINEERING

Machine Learning Algorithms and Applications

The Department of Computational Mathematics, Science and Engineering (CMSE), in partnership with the Departments of Biomedical Engineering, Computer Science and Engineering, and Electrical and Computer Engineering at Michigan State University invite applications for a tenure-system faculty position in the broad area of machine learning with a start date of August 16, 2020. This position would be a joint appointment between CMSE and one of the partner departments listed above. Candidates must have earned a PhD in computer science, applied or computational mathematics, applied statistics, or in a field of science or engineering but with substantial expertise in machine learning. The position will be filled at the assistant, associate or full professor level depending on the qualifications and record of the successful candidate. The candidate is 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, engage in institutional and professional service, and support MSU’s diverse student population.

Exceptional candidates from all areas of machine learning will be considered, with a particular emphasis on areas pertaining to sequential data analysis, computer vision, generative models, reinforcement learning, and the theoretical foundations of machine learning. Candidates who focus on the development of new machine learning algorithms, as well as those who apply existing algorithms to novel problems in science and engineering, will be considered for this position. Domains of interest include (but are not limited to) biomedical imaging, single-cell genomics, inverse problems, autonomous driving, cybersecurity, computer graphics, natural language processing, and materials science. The ideal candidate should document high quality publications of research at premier peer-reviewed journals and conferences across machine learning and related application areas.

Michigan State University has made a bold new effort by launching the Department of Computational Mathematics, Science, and Engineering, recognizing that computational and data science is a fundamental area of research in the 21st century. The department seeks to create an interdisciplinary environment that fosters a new breed of researchers who will address emergent problems in science and engineering. The candidate’s primary appointment will be in the Department of CMSE, and depending on their research interests
will have a minority appointment in either the Department of Biomedical Engineering, Computer Science and Engineering, or Electrical and Computer Engineering.

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 proactive in exploring opportunities for employment 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/. Information about WorkLife at 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 #600895. Applicants must submit a detailed resume, a cover letter summarizing their qualifications, vision statements for teaching and research, and contact information for at least three references. For full consideration, applications must be received by November 15, 2019. Nominations or questions are welcome by contacting the search committee chair, Professor Brian O’Shea, through email at oshea@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.