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. We welcome applicants from diverse backgrounds. MSU offers an inclusive and collaborative work environment.

To learn more visit research.msu.edu/global-impact

Computational Mathematics, Science and Engineering

Biomedical Imaging

The Department of Computational Mathematics, Science and Engineering (CMSE) and the Department of Biomedical Engineering (BME) at Michigan State University invite applications for two tenure-system faculty positions in the broad area of biomedical imaging with a joint appointment in the two departments. Candidates must have earned a PhD in Biomedical Engineering, Applied Mathematics, Electrical Engineering, Chemistry, Chemical Engineering, Biology or related field, with expertise in Biomedical Imaging. The position will be filled at 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, and engage in institutional and professional service.

The search committee seeks exceptional candidates who develop novel algorithmic and computational techniques for biomedical imaging, who are interested across a range of scales from nano to macro. These can range from classical image processing to the use of SERS-based imaging modalities and may include modeling protein/genetic engineering, developing methods for neuroimaging, super-resolution imaging of cells to understand structure and mechanics, addressing challenges in crvo-EM tomography, developing optoacoustic tools, and generating novel probes and contrast agents for imaging.

Michigan State University has created a bold new initiative and launched two new departments, CMSE and BME, who together are bridging scientific disciplines. CMSE seeks to create an interdisciplinary environment that fosters a new breed of algorithmists who will address emergent problems in science and engineering, setting the stage for computation to be on the same footing as experiment and theory in its role in scientific discovery. BME is housed in the new Institute of Quantitative Health Sciences and Engineering (IQ) and has a strong core of imaging scientists who work collaboratively across broad disciplines including: neuroengineering, motion analytics, developmental biology, system biology, synthetic biology, regenerative medicine, chemical biology and biomedical devices with an aim for clinical translation.

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 position #475882. Applicants must submit a detailed resume, a cover letter summarizing their qualification, vision statements for teaching and research, and at least three letters of reference. Review of applications will begin December 15, 2017. For full consideration, applications must be received before January 15, 2018. Applications will be reviewed on a continuing basis thereafter until the position is filled. Nominations or questions are welcome by contacting the search committee chair through email at bshanker@egr.msu.edu. The position is available on August 16, 2018.

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.