

# MICHIGAN STATE UNIVERSITY

The Department of Statistics and Probability at Michigan State University (MSU) plans to fill at least two tenure-track or tenured faculty positions, to begin in August 2017. Ranks will be commensurate with qualifications.

For one of these positions, excellent candidates are sought in strong growth areas in applied statistics and the core of modern statistical methods. A typical candidate will be an energetic and talented researcher with a nationally established record or strong potential for such, working in statistical-theory-driven methodology grounded by scientific applications. All exceptional candidates in the statistical sciences and probability, at all career levels, will be considered, and are encouraged to apply.

For another position, the Department of Statistics and Probability and the Department of Computational Mathematics, Science and Engineering, are jointly seeking exceptional candidates at all career levels from all areas of data science, for a majority appointment in Statistics and Probability. A specific priority research area for this position is:

- \* Theory and methods in computational statistics for handling large datasets, such as those arising in genomics, biomedical engineering, physics, astronomy, data visualization questions, and high-dimensional and complex data analysis.

Other research topics of interest for this position include:

- \* Graphical models and network inference
- \* Functional and spatial data analysis
- \* Statistical machine learning broadly construed, including
  - Multi-platform data integration, such as in genomics studies
  - Bayesian and other guided or unguided learning.

An ideal candidate for this joint position will draw a close connection between the computational side of data analysis and its applications, and the core of the modern statistical sciences. Areas of application of particular interest include the environmental sciences and climate change, genetic/genomic data analysis including genotype-to-phenotype association and prediction, medical and other image analysis, and precision medicine. Successful candidates are expected to publish in top tier statistics and computational journals and attract significant external funding.

For both positions, typical applicants will have a PhD in statistics or in a closely allied discipline. In addition to strong research credentials, as measured by publication record, established or potential funding levels, and other academic recognition, candidates are expected to provide evidence or potential for high quality teaching in undergraduate and graduate level statistics courses. For senior applicants, evidence of robust external funding and interdisciplinary research are essential, while evidence of engagement with national or international disciplinary organizations, and connections with industrial, government, and/or other professional sectors, are desirable and appreciated.

Online application is required via MSU's online job application website <https://jobs.msu.edu> - Posting #4320 is the joint position with CMSE; Posting #4292 is the other position. Applications should include a cover letter, CV, statement of



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research plans, and a one-page teaching statement, all in a single PDF file. In addition, for applicants seeking the rank of Tenure-track Assistant Professor, four letters of recommendation should be submitted electronically from recommenders through this application system, at least one of which addresses teaching skills and excellence. For applicants seeking ranks with tenure at MSU, names and contact information of at least four recommenders who may be contacted by the search committee, at least one of whom could address teaching skills and excellence, should be included in the online application. Applications received by Jan 2, 2017 will receive full consideration, but the search will continue until the positions are filled. For applicants who are highly ranked for a position with tenure after an initial screening, recommendation letters will be requested by the search committee with the applicants' consent. Questions regarding the positions may be directed to Prof. Taps Maiti, Chair of the search committee, at [maiti@stt.msu.edu](mailto:maiti@stt.msu.edu) .

MSU has been advancing knowledge for more than 160 years, as the pioneer land-grant university. 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. We endeavor to facilitate employment assistance to spouses or partners of candidates for faculty and academic staff positions. 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. MSU offers an inclusive work environment, competitive salary and benefits packages, and famously low barriers to cross-campus collaborations of all types.

The Department of Statistics and Probability draws on a tradition of research excellence in the statistical sciences, spanning a broad and inclusive range of theoretical and applied topics, in a collegial and dynamic environment. The Department of Computational Mathematics, Science and Engineering, a newly created department at MSU, provides a unique environment focused on research at the frontier of computational methods.