



Assistant Professor in Modelling Infectious Disease Data & Decision Making
Department of Mathematics & Statistics
Faculty of Science, York University

Applications are invited for a tenure-track faculty appointment in Modelling Infectious Disease Data and Decision Making at the Assistant Professor level in the Department of Mathematics and Statistics at York University to commence July 1, 2019, or thereafter.

The faculty position is initially funded in part by the recently awarded NSERC/Sanofi Industrial Research Chair (IRC) in Vaccine Mathematics, Modelling and Manufacturing program. The successful candidate is expected to engage with and benefit from this IRC program.

The IRC program team of collaborators led by Professor Jianhong Wu in the Department is composed of faculty members from the Statistics Section and the Applied Mathematics Section. Existing expertise of the IRC program team includes but is not limited to: stochastic optimization; statistical computing; infectious disease modeling; numerical analysis of differential equations; Markov chains and Monte Carlo methods; Bayesian inference. The successful candidate is expected to be a member of this IRC team. The collective expertise of the IRC team is expected to be mobilized to develop complex models capturing sources of heterogeneity and uncertainty in infection dynamics and to explore high performance computing for the purpose of testing hypotheses, identifying promising vaccine candidates, simulating trials prior to implementation, informing vaccination production priority and immunization program design. Further information about the Department and the University can be found at <http://mathstats.info.yorku.ca/>

The successful candidate must have a PhD degree in mathematical sciences or a related area, and must have a proven record of independent research excellence, and evidence of potential for superior teaching and mentoring of trainees at all levels. The new hire is expected to develop an excellent and innovative research program to analyze, model, and simulate public health data, and to have the potential for leading interdisciplinary research to inform decisions on public health policy and industrial production. The successful candidate must be suitable for prompt appointment to the Faculty of Graduate Studies. Pedagogical innovation in high priority areas such as experiential education and technology enhanced learning is an asset.

Applications must be received by October 15, 2018. Only applications received through the AMS MathJobs website, www.mathjobs.org, will be considered. Applicants will be asked to provide three signed letters of reference, a statement on teaching, a statement on research and a covering letter. Applicants wishing to self-identify can do so by downloading, completing and submitting the form found at: <http://acadjobs.info.yorku.ca/>. Once this form has been signed it can be uploaded to MathJobs.

All York University positions are subject to budgetary approval. York University is an Affirmative Action (AA) employer and strongly values diversity, including gender and sexual diversity, within its community. The AA program, which applies to Aboriginal people, visible minorities, people with disabilities, and women, can be found at <http://yorku.ca/acadjobs> or by calling the AA office at 416-736-5713. All qualified candidates are encouraged to apply; however, Canadian citizens and Permanent Residents will be given priority.