



Agent-Based Modelling Laboratory



Postdoctoral Fellowship

Area: Emerging Infectious Disease Modelling and Analysis (EIDMA)

Agent-Based Modelling Laboratory (ABM-Lab), York University
Toronto, Canada

Applications are invited for two postdoctoral positions at the Agent-Based Modelling Laboratory (ABM-Lab), York University. The successful candidates will be expected to play a major role in multi-institutional international projects. The research will use analytical and computational modelling and simulations to address public health challenges in response to emerging infectious diseases. Under the supervision of Prof. Seyed Moghadas the successful applicants will work collaboratively with other members of the ABM-Lab and investigators from several US research centres. The successful candidates will also be provided with opportunities to freely pursue research questions of interest and visit collaborators.

Given the timeliness of the projects, scale of international collaboration, and rapid responses under demanding timelines, applicants should have significant experience for developing computational modelling, and conducting data analysis, and statistical inference. The successful candidates should have excellent English language communication skills (both written and verbal). Evidence of previous work in an interdisciplinary research environment and writing scientific articles of high quality would be considered a major asset. The candidates will be responsible for summarising outcomes of the projects for publications in the form of scientific articles. A sample of research projects are available at: <http://eid.yorku.ca>.

Applicants must be within 4 years of having completed their PhD in a field that is relevant to the research projects (e.g., applied mathematics, computational epidemiology or computer science). The initial appointment will be for one year. The salary will be commensurate with the experience of the candidate in the range of \$45,000 to \$55,000 CDN (including benefits). Extension of the tenure to the second year is possible pending satisfactory performance. Each PDF will have up to 2 weeks per year for a research visit to one of the collaborating centres (i.e., Yale School of Public Health; Centre for Global Health and Vaccine development at the University of Maryland, and the Emerging Pathogens Institute at the University of Florida). A number of other opportunities, including travel for brainstorming and research-intensive workshops related to EIDMA will be provided.

Review of applications will begin immediately and continue until the positions are filled. Expected start of the position is April 1, 2021, or soon thereafter. Applicants must submit a cover letter, curriculum vitae along with complete contact information, copies of 2 recent publications (relevant to the research area), and arrange for two letters of recommendation to be sent directly to abmlab@yorku.ca.

We will accommodate remote working for Canadian applicants due to COVID-19 restrictions. International applicants will require to provide necessary documents (e.g., work permit) and physical presence in Canada.

We appreciate receiving applications; however, only selected applicants will be contacted. Incomplete applications will not be considered.