



Postdoctoral Fellowship (Immediate Recruitment)

Area: Mechanistic Modelling and Health Economics

- **Agent-Based Modelling Laboratory (ABM-Lab)**
- **Laboratory for Industrial and Applied Mathematics (LIAM)**
- **Y-EMERGE, York University, Toronto, Canada**

Job Description:

Applications are invited for a postdoctoral fellowship (PDF) at the Agent-Based Modelling Laboratory (ABM-Lab) and Laboratory for Industrial and Applied Mathematics (LIAM), York University. The successful candidate will lead a major role in multi-institutional projects, involving industry partners in vaccine domain. The research will use statistical and computational modelling tools, involving large databases related to infectious disease epidemiology, with immediate focus on cost-effectiveness, cost-utility, cost-benefit, and cost-opportunity analyses of vaccination. Under the supervision of Professor Seyed M Moghadas Laboratory (ABM-Lab) and Professor Jianhong Wu (LIAM), the successful applicant will collaborate with investigators from a network of internationally recognized researchers with critical expertise in modelling infectious disease and evaluating public health interventions and programs.

Requirements:

- Applicants should have relevant knowledge and experience in the health economics of vaccination programs, mechanistic modelling, and programming in at least one of the following languages: Julia, R, Python.
- Evidence of independent and leading roles, including publications in high-impact journals, is required.
- Applicants must be within four years of having completed their PhD in a field relevant to the position (e.g., applied mathematics, statistics, health economics, computational epidemiology).
- Applicants **must have** at least one publication in health economics related to vaccination in a reputable journal.

Terms of Employment:

- The initial appointment will be for one year, and the salary range will be \$62,000 to \$72,000 CDN (including benefits), commensurate with the candidate's experience.
- Extension of the position is contingent upon satisfactory performance and productivity with measurable outcomes.
- The expected start of the position is July 1, 2024, or soon after that.

Application Procedure:

- Review of applications will begin immediately and continue until the position is filled.
- Applicants must submit a cover letter, curriculum vitae, complete contact information, and copies of 2 recent publications relevant to this position and arrange for two letters of recommendation to be sent as a single PDF file to the Y-EMERGE Institution Coordinator, Dr. Leila Daddoust at dadoust@yorku.ca.
- Only complete applications will be considered. Please use "**Your surname_Postdoc_SM&JW**" as the subject of your email.
- **Note:** We appreciate receiving applications; however, only selected applicants will be contacted.