Postdoctoral Fellowship

Area: Data Analytics and Computational Systems

Agent-Based Modelling Laboratory, York University
Toronto, Canada

Applications are invited for a postdoctoral position in Data Analytics and Computational Systems at the Agent-Based Modelling Laboratory (ABM-Lab), York University. The successful candidate will be expected to play a major role in data-driven solutions of an industry project. The research will apply data analytic tools and Critical Slowing Down methods to uncover nuanced trends and identifying tipping points that may lead to significant events. Using signal detection techniques and computational modelling, the project aims to assess the risk of impending events with indicators of early warning signals based on the latest available data and information. The outcomes will help the industry partner to inform its clients about possible threats with potential for large-scale impact in order to trigger prompt and effective interventions in the area of safety and digital security. Under the supervision of Prof. Seyed Moghadas, the successful applicant will work collaboratively with the industry partner and other members of the research team in this project.

Applicants should have significant practical experience for conducting data analysis, signal detection, computational modelling, and statistical inference. The successful candidate will have excellent English language communication skills (both written and verbal). Previous experience working in an interdisciplinary research environment, and writing scientific articles, would be an asset. The candidate will be responsible for summarising outcomes of the project for publications in the form of scientific articles.

Applicants must be within 3 years of having completed their PhD in a field that is relevant to the research project (e.g., data science, applied mathematics or computer science). The appointment will be for one year beginning October 1, 2018. The salary will be commensurate with the experience of the candidate in the range of $38,000 to $48,000 CDN (including benefits).

Review of applications will begin immediately, and continue until the position is filled. Applicants must submit a cover letter, curriculum vitae along with complete contact information, copies of 2 recent publications (relevant to the project), a summary (250 words max) of research experience and its relevance to the objectives of this position, and arrange for two letters of recommendation to be sent directly to abmlab@yorku.ca. We appreciate receiving applications; however, only selected applicants will be contacted. Incomplete applications will not be considered.