Postdoctoral Researcher, Population Health Data Science lab

Department: Department of Kinesiology & Health Science, Faculty of Health, York University
Job details: Full time – 24 month contract with possibility for renewal
Job start date: June 1, 2023
Job end date: June 1, 2025
Salary: $45K - $65K
Total weekly hours: 35
Hours of work: 10:00am to 6:00pm
Job location: York University – Keele Campus

Job Purpose:
We are seeking highly qualified candidates for a postdoctoral researcher position at the Population Health Data Science lab at York University in Toronto, Canada. Under the supervision of the Principal Investigator, Dr. Antony Chum, Director of Population Health Data Science Lab at York University, the fellow will become a core member of a research group that aims to contribute knowledge in the field of social and psychiatric epidemiology.

Major areas of responsibility:
The role will primarily involve writing grant proposals, mentoring graduate students, working with community partners, and leading studies from 4 federally-funded (SSHRC and CIHR) projects related to mental health, substance use, and suicidality. The successful applicant will have daily interactions with a dynamic community of researchers and trainees focused on social epidemiological research. We currently operate in a hybrid environment, requiring both in-person and remote work (approximately 3 days per week in office), with occasional travel to the Statistics Canada Research Data Centre (in Toronto or Hamilton).

Here's What You'll Get To Do:
- Leading studies for peer-reviewed publications (preparation of manuscripts for submission to peer-reviewed research journals)
- Design and execute quantitative studies to answer research questions pertaining to social and policy determinants of suicidal behaviours, mental health, and substance use in the general and marginalized populations
- Lead and conduct comprehensive literature searches/reviews
- Lead and assist with the preparation of research proposals and grant applications, research ethics board submissions, and study materials (e.g., data collection forms).
- Mentor undergrad/graduate students and research assistants
- Liaise with community based organizations for knowledge mobilization activities (e.g. work with community partners to develop social media campaigns and policy briefs based on our study results)
- Attend relevant meetings, rounds or workshops to increase knowledge and skills.

Job qualifications and related skill:
- Doctoral degree in epidemiology/public health, economics, or social research involving quantitative data analysis
- Familiarity with LGBTQ+ health literature, especially related to transgender health
- Familiarity of the literature on social, environmental, and policy determinants of suicide behaviours, mental health, and substance use
- Evidence of advanced quantitative data analysis skills through peer-reviewed publications
- Experience and familiarity with causal inference modelling (e.g. regression discontinuity, difference-in-differences, interrupted time series), longitudinal data analysis, survival analysis, time-series analyses (e.g. ARIMA/SARIMA)
- Experience with machine learning (e.g. regression, classification, and tree-based models) is an asset
- Advanced proficiency with a statistical software application (SAS, Stata and/or R) and willingness to use SAS and R.
- Ability to work independently
- Excellent written and oral communication skills.
- Demonstrated interest in and/or work experience related to social epidemiological research
- Please address the following points in your cover letter (max 1 page total). Applications that do not include these points are unlikely to be considered further:
- Brief explanation of your reason for applying to this specific position and your experience/training that would prepare you for the role.
- Address your interests with regards to LGBTQ+ health research
- List of your experience related to designing and leading an original study
- List of peer-reviewed papers on which you are a first or co-author, and an explanation of your direct role on each paper

Application:
Please submit your full package via email to eddief@yorku.ca