



JOB POSTING, POST-DOCTORAL FELLOW

Area of Research: Health Services Research, Econometrics

Project summaries:

A fundamental tenet of population health is that there is an association between socioeconomic status (SES) and the health of individuals mediated through material deprivation as well as through social deprivation. This health-deprivation gradient provides an important lens for assessing the impact of major health risks and public health policy. This project will use that lens to assess the impact of the COVID epidemic and the public health policies to contain COVID on SES-related health disparities. The resulting assessment will be provided to policymakers in a timely and relevant manner in order to inform an equitable policy response to this public health crisis.

The project team includes experts in health services research, epidemiology, public health, health disparities, econometrics and labour economics who will use sophisticated modelling and analytical techniques and timely access to data on health outcomes, SES and employment to investigate the cross-SES health impacts of the COVID-19 pandemic, and of the containment measures used to mitigate that pandemic in Ontario.

The objectives are to:

1. Make use of Statistics Canada data including census data, geographic boundary data, and data from other surveys such as the Labour Force Survey and data from Commonwealth Fund surveys to describe regional and temporal trends in employment and socioeconomic status
2. Bring the employment and socioeconomic status data together with data on health outcomes to study the association between them
3. Create and employ a sophisticated approach to the analysis and presentation of results from this work to inform policy decisions and improve knowledge translation

Description of duties:

The Institute of Health Policy, Management and Evaluation (IHPME) is seeking a Post-Doctoral Fellow who will take a leadership role in a set of funded health services research projects that involve the analysis of health system administrative data sources and data from Statistics Canada. The work will be focused on both descriptive analysis including mapping and more advanced statistical analyses including the use of econometric techniques, simulations and mapping. The research will support work on innovation and planning in primary and integrated care with a focus on assessing the effects of the covid-19 pandemic and the effect of the strategies to contain the pandemic in Ontario with a particular focus on economic and employment disparities. The work will involve both Ontario administrative health system data and data on socio-economic status and employment from Statistics Canada and data from the Commonwealth Fund. The aim of this work is to provide evidence to support an effective and equitable response to the covid-19 pandemic.

You will report to the Principal Investigator, Geoff Anderson.

The post is available immediately. It is full time on a 12-months fixed-term basis, and renewable for another 12 months based on mutual agreement.

Responsibilities include:

- Conducting literature and document reviews that describe the data and that describe the methods that will be used in the research
- Writing reproducible code and documentation in a range of advanced analytical languages including, R, Python, Stata, and SAS
- Conduct exploratory and statistical analysis of data to assess feasibility of new research projects and perform descriptive and inferential statistical analysis and conducting sophisticated econometric analysis
- Presenting the results of analyses through a range of data visualization tools including statistical charts, tables, maps, and interactive figures
- Leading the drafting of methods and results section for journal submissions and project reports
- Analyzing and summarizing findings and drafting reports and/or manuscripts and contributing to knowledge translation activities and public dissemination
- Liaising with international and national research teams to ensure consistency in methodology
- Supervising junior staff (e.g., work-study students)
- Presenting findings at relevant conferences

Salary:

\$65,000- 75,000 per annum depending on candidate, skills and experience.

Please note that should the minimum rates stipulated in the collective agreement fall below the rates stated in this posting, the minimum rates stated in the collective agreement shall prevail.

Required qualifications:

Minimum Degree Required: Ph.D. obtained within 5 years from date of hiring

Preferred Qualifications:

The successful candidate must possess a PhD in a relevant statistical, economics, epidemiological or computer science discipline. The successful candidate must have extensive experience with quantitative methods and experience in documenting and presenting complex analyses. The candidate must have the ability to work independently and direct projects, while also working collaboratively with the PI and other research team members. Experience preparing manuscripts for submission to peer-reviewed journals is also required along with experience presenting findings at relevant conferences.

Application instructions:

All individuals interested in this position must submit a **CV** and **two letters of references** to Alexandru Titeu at alexandru.titeu@utoronto.ca by the closing date. Optional application documents include cover letter, dissertation abstract, writing sample/publications and research abstract.

Closing date: Open until filled

Supervisor: [Professor Geoff Anderson](#), Institute of Health Policy, Management and Evaluation

Expected start date: Immediately upon successful selection of an applicant

Term: This is a one-year position, renewable for a second year subject to availability of funding and performance of the postdoc.

FTE: Full Time

The normal hours of work are 40 hours per week for a full-time postdoctoral fellow (pro-rated for those holding a partial appointment) recognizing that the needs of the employee, research and training and the needs of the supervisor, research program may require flexibility in the performance of the employee, duties and hours of work.

Employment as a Postdoctoral Fellow at the University of Toronto is covered by the terms of the [CUPE 3902 Unit 5 Collective Agreement](#).

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The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons / persons of color, women, Indigenous / Aboriginal People of North America, persons with disabilities, LGBTQ persons, and others who may contribute to the further diversification of ideas.