UNIVERSITY OF TORONTO
DALLA LANA SCHOOL OF PUBLIC HEALTH

Posting Date: May 3, 2017

JOB POSTING – POSTDOCTORAL FELLOW

Area of Research: Traumatic brain injury (TBI), defined as *"an alteration in brain function, or other evidence of brain pathology, caused by an external force"* [is] among the most serious and disabling neurological disorders affecting adults and children in all societies. Recently endorsed is the view of TBI as a chronic disease process encompassing clinical, pathological and cellular changes starting at the time of the head injury event. As a result, TBI has the potential to affect various organs and bodily systems and cause and/or expedite various disease progressions. Our study seeks to add to the understanding of outcomes relevant to patients and clinicians (i.e., functional outcome, all-cause mortality), and those of interest to social security (i.e., resource utilization). The Institute for Clinical Evaluative Sciences (ICES) houses high quality administrative data on a wide variety of publicly funded services provided, including individual-level information on databases from emergency departments, acute care, inpatient rehabilitation, community services and long-term care, continuing care, mortality, and prescription data within the province. These datasets provide a rare opportunity to study resource consumption, all-cause mortality and functional outcomes for TBI persons across the continuity of care taking into account socio-demographic, clinical and injury-related profiles of persons with TBI of varying severities. Further, it allows for the application of innovative statistical techniques to advance this research.

Description of duties: A fulltime post-doctoral fellow (PDF) with background in biostatistics will be responsible for 1) (co)- developing statistical analysis plans; 2) performing statistical analyses, validating analysis datasets, validating results,, interpreting statistical results, and 3) developing and modifying innovative statistical methods to analyze these types of data. Additional duties include collaborating and providing statistical consultation to the team, incorporation of statistical input in study design and execution, supervision of trainees/staff, grant writing, project management and contributions to manuscript writing.

Salary Range: $60,000-$65,000 per annum; Salary will be dependent on experience and qualifications.

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: PhD in biostatistics (or related degree) with experience in applied statistical collaboration in health care research and a thorough understanding of statistical principles and biostatistical methods. This would include proficiency in logistic regression, Poisson regression and other GLM models. Also, it would be an asset to have an understanding of Bayesian nonparametric or Bayesian semiparametric methods and/or machine learning

techniques. The candidate should be conversant with SAS and R programming and be able to communicate findings to an interdisciplinary team. Prior work with ICES data or other large administrative datasets would also be an asset. The PhD must have been obtained within five years of hiring.

Application instructions

All individuals interested in this position must submit CV and at least 2 references to Dr. Michael Escobar at m.escobar@utoronto.ca by the closing date.

Closing date: May 17, 2017

Supervisor: Dr. Michael Escobar

Expected start date: Position available immediately

Term: 1 year with potential for extension depending on funding

FTE: 1FTE

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

This job is posted in accordance with the CUPE 3902 Unit 5 Collective Agreement.

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas.