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MCGILL CLINICAL & HEALTH
INFORMATICS

Postdoctoral research fellowship in public health surveillance modeling

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McGill Clinical and Health Informatics (MCHI) research group invites applications for a postdoctoral fellowship in public health surveillance modeling. MCHI is in the Department of Epidemiology and Biostatistics in the School of Population and Global Health at McGill University in Montréal, Canada. Motivated by the critical role blood donors have played in understanding SARS-CoV-2 epidemiology, this fellowship will focus on evaluating opportunities, limitations, and best practices in using blood donor data for public health surveillance.

As part of a unique new partnership between MCHI and Canadian Blood Services, the fellow will develop a series of projects that assess the potential value of using blood donor data for public health surveillance across multiple areas. The projects will develop skills in data analysis and modeling skills (Bayesian multi-level modeling, decision-analytic modeling, simulation, data science) and provide opportunities to inform public health policy. The fellow will be supervised by Alton Russell, PhD and co-supervised by David Buckeridge, MD PhD (McGill) and Sheila O'Brien, RN PhD (Canadian Blood Services).

Qualifications:

- PhD in Epidemiology, Applied Math, Health Services Research, or related by start date
- Research experience with quantitative data analysis/modeling
- Proficiency in data analytics and visualization using R or a similar program
- Candidates with experience analyzing large survey-based datasets, Bayesian modeling, multi-level modeling, or decision-analytic modeling should emphasize these skills

Start and duration: A start date in early/mid 2022 is preferred. Alternative arrangements could be made for an exceptional candidate. Funding is available for at least 2 years, contingent on satisfactory progress.

Review of applications: Applications will be reviewed on a rolling basis until the position is filled.

Applicants are asked to email the following materials to Alton Russell, PhD ([alton.russell \[at\] mcgill.ca](mailto:alton.russell@mcgill.ca)) with the subject line "Postdoc candidate".

- Brief description of interest / fit with your experiences
- Curriculum vitae
- List of 3 references

Optionally, applicants may include relevant unpublished/"in progress" research products.

Additional information:

- McGill University is committed to diversity, inclusion, and equity in employment. Applications are welcome from indigenous peoples, visible minorities, ethnic minorities, persons with disabilities, women, persons of minority sexual orientations and gender identities.
- Candidates' eligibility to hold a Postdoctoral Research Fellowship expires 5 years after the date on which their PhD was awarded. See: <https://www.mcgill.ca/gps/postdocs/fellows/registration/eligibility>
- Any offer to non-Canadian citizens or non-permanent residents in Canada is contingent on the candidate obtaining a work permit after an offer has been made and a letter of invitation sent. See: <https://www.mcgill.ca/gps/postdocs/international/workpermit>