



McGill

Reference #: 18082P-181102

Assistant or Associate Professor

Faculty of Medicine – Department of Physiology

Position description

The Department of Physiology at McGill University is seeking applicants for a tenure-track faculty position at the Assistant/Associate Professor rank. The Department of Physiology is seeking applicants who apply artificial intelligence/machine learning to physiological systems. The projected start date for this position is August 1, 2019.

The Department of Physiology (www.mcgill.ca/physiology/) is world-renowned for its interdisciplinary research program, which combines a vibrant community in the mathematical and computational sciences with experimentalists working in a broad range of areas of physiology. The department hosts the state-of-the-art, Advanced Biolmaging Facility (ABIF) with expert research staff as well as the long-standing Centre for Applied Mathematics in Bioscience and Medicine (CAMBAM). The department of Physiology is proud to host a respectful, multi-disciplinary and inclusive work setting in its multiple areas of activity, which includes the training of a diverse group of students.

Canada has identified artificial intelligence as a priority area for investment and Montreal is flourishing as an AI hub (www.montrealinternational.com/en/foreign-investments/sectors/artificial-intelligence/). McGill has several ongoing AI initiatives, is home to the newly created Quantitative Life Sciences (QLS) graduate program and has hired researchers in AI/machine learning across several faculties. The current AI ecosystem in the Montreal area, as well as a diverse faculty of experimentalists and theoreticians in broad areas of physiological dynamics (cardiac physiology, neurosciences, and imaging) make the Department of Physiology an ideal place to launch a research program in AI/machine learning as applied to physiological systems.

McGill University was founded in 1821 and is consistently ranked among the top 20 public universities in the world and among the top three in Canada. McGill is located in Montreal, Quebec (www.montrealinternational.com/en/), a multiethnic city with a sparkling cultural life. Montreal has been selected numerous times as the best city for students in North America. Montreal is safe, housing costs are among the lowest for cities of comparable size, and overall quality of life is outstanding.

Job Duties

- Develop a funded, independent research program;
- Supervise graduate students and postdoctoral fellows conducting research;
- Teach in undergraduate, graduate, and medical courses;
- Develop new courses and teaching approaches;
- Participate in departmental and university committees and activities;
- Assume leadership roles in the scientific community;
- Promote equality, diversity, and inclusion in all the above activities.

Qualifications and Education requirements

Interested candidates must have a PhD degree in physical or biomedical sciences and demonstrated expertise and interest in applying AI to biological problems, with at least 2 years of postdoctoral experience. Areas of interest include, but are not limited to: analysis of large image datasets, interpretable machine learning, AI applied to mathematical models of physiological systems, metagenomics and human physiology, and biologically inspired neural networks.

A commitment to – and in accordance with circumstances, a track record in equity, diversity, and inclusiveness is preferred.

JOB DETAILS

Job Type: Tenure-track

Rank: Assistant/Associate Professor

Job status: Full-time

Salary: Salary will be commensurate with qualifications and experience

Posting period: 30 days from publication date

APPLICATION PROCESS

Applications must be submitted on-line at: <http://www.mcgill.ca/medicine-academic/positionsavailable>

The following supporting documents are required:

- a cover letter & curriculum vitae including a list of publications (as 1 PDF document);
- a statement summarizing your research interests and future research plans AND a teaching statement including a teaching philosophy and objective (combined to make 1 PDF);
- the names and contact information of three referees

McGill University hires on the basis of merit and is strongly committed to equity and diversity within its community. We welcome and encourage applications from racialized persons/visible minorities, women, Indigenous persons, persons with disabilities, ethnic minorities, and persons of minority sexual orientations and gender identities, as well as from all qualified candidates with the skills and knowledge to productively engage with diverse communities.

McGill further recognizes and fairly considers the impact of leaves (e.g., family care or health-related) that may contribute to career interruptions or slowdowns. Candidates are encouraged to signal any leave that affected productivity, may have had an effect on their career path. This information will be considered to ensure the equitable assessment of the candidate's record.

McGill implements an employment equity program and encourages members of designated equity groups to self-identify. It further seeks to ensure the equitable treatment and full inclusion of persons with disabilities by striving for the implementation of universal design principles transversally, across all facets of the University community, and through accommodation policies and procedures. Persons with disabilities who anticipate needing accommodations for any part of the application process may contact, in confidence, Professor Angela Campbell, Associate Provost (Equity and Academic Policies) by email (angela.campbell@mcgill.ca) or phone at 514-398-1660.

All qualified applicants are encouraged to apply; however, in accordance with Canadian immigration requirements, Canadians and permanent residents will be given priority.
