Assistant or Associate Professor

Faculty of Medicine – Department of Human Genetics, McGill University Genome Quebec Innovation Centre (MUGQIC)

Position description

The Department of Human Genetics, McGill University Genome Quebec Innovation Centre (MUGQIC), Faculty of Medicine, McGill University invites applications for an outstanding scientist with a strong track record in functional genomics applied to understanding the molecular basis of human disease. The new recruit will join a mission-oriented multidisciplinary Canada Excellence Research Chair (CERC) team covering all facets of genomic medicine. This CERC team is pursuing a new research initiative entitled “Genomic medicine: Genes to drug targets for next-generation therapies” (https://www.genomic-medicine-cerc.online). The team will be implementing a combination of high-throughput molecular approaches, quantitative analyses, and clinical investigations to accelerate the discovery, development, and success of new therapies and diagnostic markers. The initial focus will be in autoimmunity, inflammatory diseases, and cancer, building upon strong existing expertise within the McGill medical genomics research community. The scope of the research will expand rapidly to other McGill strengths including cardiometabolic, neurodevelopmental and neurodegenerative disorders.

The CERC team will be located within the MUGQIC, a major research facility within McGill University’s main campus. MUGQIC receives core funding in its role as a national facility for genomics epigenomics and computational methods. CERC-associated researchers will benefit from state of the art genomic platforms and high-performance computing facilities. MUGQIC houses the Centre for Genome Policy, which addresses policy issues arising from genomics and other areas of biomedical research.

The Department 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. As part of this mandate, the department offers an M.Sc. in Genetic Counselling and M.Sc. and Ph.D. Programs in Human Genetics.
Job Duties

The Department seeks applicants with the capacity to conduct innovative research as a CERC team group leader for functional genomics. Developing an independent research program addressing CERC team objectives, the candidate will:

- Lead team efforts to transfer results from cohort- and disease-based genetics and genomic studies through functional characterization using a variety of approaches, such as animal models, cell lines, and iPSCs;
- Implement gene editing technologies for “synthetic modulation” to decipher the causal role of disease-associated genetic variants providing high throughput and diverse biologically-relevant readouts;
- Establish cellular assays to assess genes and biological pathways that link potential targets to disease, and develop new methods for their validation and evaluation of drug responses;
- Develop collaborations with molecular scientists, quantitative biologists, and clinical investigators with the CERC team at the MUGQIC and across the Faculties of Medicine and Science, as well as at McGill-affiliated hospitals and in close interaction with industry partners, funders, and other stakeholders.

All McGill faculty members are expected to contribute to service activities within their units, the University, and the wider scholarly community. Developing a presence and leadership within these service activities will be essential to candidates’ success at McGill.

The successful candidate will be required to participate in classroom instruction and student supervision within the guidelines of the Department of Genetics as well as develop a teaching program and maintain a teaching dossier that includes student evaluations.

Qualifications and Education Requirements

Candidates must possess a PhD or MD/PhD, postdoctoral training and research experience in a relevant field. The successful candidate will be expected to develop an ambitious, internationally recognized program of research that will make an essential contribution to furthering the mission of the CERC team to advance genomic medicine.

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

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 (as 1 pdf document)
- statement of research (if including other documents, combine to make 1 pdf)
- the names and contact information of three referees

McGill University is committed to equity and diversity within its community and values academic rigour and excellence. 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 engage productively with diverse communities.

At McGill, research that reflects diverse intellectual traditions, methodologies, and modes of dissemination and translation is valued and encouraged. Candidates are invited to demonstrate their research impact both within and across academic disciplines and in other sectors, such as government, communities, or industry.

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, this email or phone at 514-398-2477.
All qualified applicants are encouraged to apply; however, in accordance with Canadian immigration requirements, Canadians and permanent residents will be given priority.