

Canada Research Chair (CRC) Tier II in Quantitative Imaging Biomarker Development

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Job title: Canada Research Chair (CRC) Tier II in Quantitative Imaging Biomarker Development

Position code: 23_C_ECE_M

Date posted: October 31, 2023

Application deadline: January 7, 2024

Advertised until: Position is filled

Position description

Applications are invited for a **tenure-track Assistant Professor position in the area of Quantitative Imaging Biomarker Development** within the **Department of Electrical and Computer Engineering (ECE)** in the Gina Cody School of Engineering and Computer Science. The successful candidate will be nominated for a prestigious Tier II Canada Research Chair. Preference will be given to applicants with skills and abilities in imaging studying researchers' health-related fields, from lifespan to disease diagnosis, and from the effects of lifestyle to pharmaceutical interventions, and should have a proven track record of excellence in Quantitative Imaging Biomarker Development. The applicant will work with researchers in medical imaging, signals and image processing, computational methods, and in the general area of healthy aging.

This is a research-intensive tenure-track faculty position at the rank of Assistant Professor, but exceptional candidates at the Associate Professor level may also be considered. The successful candidate is an exceptional emerging world-class researcher with demonstrated research creativity, a vision to establish an original and innovative research program of high quality and a drive to become an internationally recognized leader in their area of research in the next five to ten years. The candidate must demonstrate a potential to attract, develop and retain excellent trainees, students, and future researchers.

This position involves collaboration with other units of Concordia University including the Department of Physics and the School of Health, for which the PERFORM centre is an essential host infrastructure at Concordia University. School of Health members and specialists in health and disease prevention play an essential role in cultivating interdisciplinary and collaborative research, and in creating links between a variety of disciplines in an effort to improve health across the population. Their knowledge and expertise range from Medical Imaging, Cardiology, Neurosciences, Biology, Physics, Exercise Science, Psychology, Mathematics and Statistics, to Engineering and Computer Science.

Qualifications and assets

Candidates must possess a Bachelor's degree in Biomedical Engineering or a closely related field and a PhD degree in a related field. Additional postdoctoral training is advantageous. Applicants should have a track record of peer-reviewed funding (e.g., post graduate and/or post-doctoral scholarships) at the local and national level. Evidence of successful supervision and/or mentorship of trainees at the undergraduate or graduate level is also considered an asset. Membership or eligibility for membership in a Canadian professional engineering association, preferably in Quebec, is required.

Candidates eligible for Tier II chair positions must be excellent emerging scholars within 10 years of their highest degree at the time of nomination (exclusive of career interruptions). Potential Tier II candidates who are more than 10 years from their highest degree should take note that certain career interruptions may still make them eligible for nomination. Potential candidates are

encouraged to submit a formal justification by means of the Tier II Justification Assessment Form, which will be considered in the review of applications. Please consult the [Canada Research Chairs website](#) for full program information, including further details on eligibility criteria and acceptable justifications to the extension of the eligibility term.

Notwithstanding the above and irrespective of their submission of a formal justification, candidates are encouraged to share any career interruptions or personal circumstances that may have had an impact on their career goals (such as the decision to have a family, eldercare, illness, and so forth) in their letter of application. These will be carefully considered in the assessment process. The Department values diversity among its faculty and strongly encourages applications from women and members of underrepresented groups. Concordia University is an English-language institution of higher learning at which the primary language of instruction and research is English. Since this position supports academic functions of the university, proficiency in English is required. Working knowledge of French, including reading and grading student work in French, is an asset.

How to apply

All qualified candidates are encouraged to apply; however Canadians and Permanent Residents will be given priority. To comply with the Government of Canada's reporting requirements, the University is obliged to gather information about applicants' status as either Permanent Residents of Canada or Canadian citizens. While applicants need not identify their country of origin or current citizenship, all applicants must include one of the following statements:

Yes, I am a citizen or permanent resident of Canada

or

No, I am not a citizen or permanent resident of Canada

Applications should be addressed to: Ms. Sabrina Gendron, Assistant to the Chair, at [hiring@ece.concordia.ca](mailto: hiring@ece.concordia.ca), and must include the following:

- Cover letter clearly identifying the title and position code (23_C_ECE_M),
- Detailed curriculum vitae,
- Different types of evidence of teaching expertise, e.g. evidence of teaching effectiveness, teaching evaluations (if applicable), statement of teaching and training philosophy and interests including supporting materials, etc.
- Statement of research interests and a description of a proposed 5-year research plan for the Chair (3 pages max)
- Statement on trainee mentorship and education philosophy (1 page max)
- Statement on Equity, Diversity, and Inclusion in research (1 page max)
- Names and contact information for four referees.

Electronic applications should be submitted by January 7, 2024, but will continue to be reviewed until the position is filled. Only short-listed candidates will be notified. The appointment is expected to commence on August 1, 2024, or shortly thereafter.

Concordia University is strongly committed to building a diverse, equitable, and inclusive community, and recognizes the importance of inclusion in achieving excellence in teaching and research. As part of this commitment to providing our students with the dynamic, innovative, and inclusive educational environment of a Next-Generation University, we require all applicants to articulate in their cover letter how their background, as well as lived and professional experiences and expertise have prepared them to teach in ways that are relevant for a diverse, multicultural contemporary Canadian society.

Possible examples to demonstrate a diverse experience may include, but are not limited to:

- teaching about underrepresented populations
- mentoring students from underrepresented backgrounds
- committee work
- offering or organizing educational programming
- participation in training and workshops

All applicants will receive an email invitation to complete a short equity survey. Participation in the survey is voluntary and no identifying information about candidates will be shared with hiring committees. Candidates who wish to self-identify as a member of an underrepresented group to the hiring committee may do so in their cover letter or by writing directly to the contact person indicated in this posting.

Adaptive measures

Applicants who anticipate requiring adaptive measures throughout any stage of the recruitment process may contact, in confidence, Anna Barrafato, Accessibility Change Lead: anna.barrafato@concordia.ca or by phone at 514.848.2424 extension 3511.

Information about the Department

The Department of Electrical and Computer Engineering (ECE) has a faculty complement of over 45 professors active in various areas of computer engineering and electrical engineering. The Department offers PhD, Masters and bachelor's degrees in Computer Engineering and Electrical Engineering. Concordia University and ECE attract a high quality, diverse student population in all its programs. The Biomedical Engineering and Digital Health is one of the strategic directions of the ECE Department. In the last eight years, the Department has been building up expertise in this area by hiring 7 professors. These professors work in conjunction with School of Health with the state-of-the-art facilities most relevant to this CRC. More information on ECE is available at www.concordia.ca/ece.

Information about the Gina Cody School of Engineering and Computer Science

The Gina Cody School of Engineering and Computer Science is ranked among the top ten engineering schools in Canada. The School is home to over 10,000 engineering and computer science students and a faculty complement of over 250 faculty members. The School has about 4,500 graduate students enrolled in 35 graduate programs. Its research profile continues to grow as it fosters multidisciplinary approaches to finding solutions to a broad range of societal challenges. Concordia University and the School attract a high quality, diverse student population in all its programs. For more information on the Gina Cody School of Engineering and Computer Science, please visit: www.concordia.ca/ginacody.

Information about Concordia

Concordia University is located on unceded Indigenous lands. Tiohtià:ke/Montreal, on the traditional lands and waters of the Kanien'kehá:ka Nation, is historically known as a gathering place for many First Nations. Today it is home to a diverse population of Indigenous and other peoples. We respect the continued connections with the past, present and future in our ongoing relationships with Indigenous and other peoples within the Montreal community.

Building on the skills of our faculty and the strengths of Indigenous, local, and global partnerships, we set our sights further and more broadly than others and align the quality of learning opportunities to larger trends and substantial challenges facing society.

“Concordia is a young, forward-looking university. It’s a unique place where experimentation, innovation and creativity are truly valued. Our community of students, faculty, staff and alumni all contribute to our momentum as Canada’s next-gen university.” — Concordia President Graham Carr.

Profoundly global, Concordia is North America’s top university under the age of 50 and is recognized for attracting some of the most talented faculty and students from around the world. Driven by ambition, innovation and a commitment to reconciliation, research and community engagement, Concordia is celebrated for advancing transformative learning, convergent thinking and public impact.

Information about Montreal

Tiohtià:ke/Montreal, is exceptional; safe, vibrant and diverse, with new things to discover around every corner. The Kanien'kehá:ka Nation is recognized as the custodians of the lands and waters on which we gather and conduct our activities. With a population of 1.7 million, Tiohtià:ke/Montreal is home to four major universities and several clinical research centres and has been named the best student city in the world. It offers the most affordable tuition in Canada.

The city enjoys a thriving multicultural scene. Bilingualism is a part of Montreal's tradition and adds to its inspiring atmosphere. While supporting a significant anglophone population, it is the one of the largest French-speaking cities in the world.

Montreal is famed for its innovative culinary scene and festivals. It was also the first metropolis to be designated a UNESCO City of Design by the Global Alliance for Cultural Diversity.

The city is recognized globally as an important centre for commerce, aerospace, transport, finance, pharmaceuticals, technology, design, gaming and film.

Territorial Acknowledgement

Concordia University is located on unceded Indigenous lands. The Kanien'kehá:ka Nation is recognized as the custodians of the lands and waters on which we gather today. Tiohtià:ke/Montreal is historically known as a gathering place for many First Nations. Today, it is home to a diverse population of Indigenous and other peoples. We respect the continued connections with the past, present and future in our ongoing relationships with Indigenous and other peoples within the Montreal community.

Employment Equity

Concordia University is strongly committed to employment equity within its community, and to recruiting a diverse faculty and staff. The University encourages applications from all qualified candidates, including women, members of visible minorities, Indigenous persons, members of sexual minorities, persons with disabilities, and others who may contribute to diversification; candidates are invited to self-identify in their applications.

Immigration Status

All qualified candidates are encouraged to apply; however, Canadian and Permanent Residents will be given priority. To comply with the Government of Canada's reporting requirements, the University is obliged to gather information about applicants' status as either Permanent Residents of Canada or Canadian citizens. While applicants need not identify their country of origin or current citizenship, all applications must include one of the following statements:

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