Assistant/Associate Professor & Tier 2 Canada Research Chair in Wearable Diagnostic Technologies

Position Details

Position Information

Position Title	Assistant/Associate Professor & Tier 2 Canada Research Chair in Wearable Diagnostic Technologies
Posting Number	F671P
Type of position	Tenure Stream
Department/Unit	Biomedical Engineering Medicine
Location	Halifax, Nova Scotia, Canada
About the opportunity	Dalhousie University's School of Biomedical Engineering (SBME) in the Faculties of Medicine and Engineering invites applications for a probationary tenure-track, tenure-track or tenured position as Assistant or Associate Professor and Tier 2 Canada Research Chair (CRC) in Wearable Diagnostic Technologies. This CRC position is designated for those individuals who identify as a woman with a disability or a member of another gender equity-deserving group with a disability.

The CRC Program: The CRC program was established by the Canadian Federal Government with the purpose of attracting outstanding researchers to the Canadian university system. Tier 2 Chairs are intended for exceptional emerging scholars (i.e., candidates must have been an active researcher in their field for fewer than 10 years at the time of nomination). Applicants who are more than 10 years from having earned their highest degree (and where career breaks exist, such as maternity, parental, or extended sick leave, clinical training, etc.) may have their eligibility for a Tier 2 Chair assessed through the program's Tier 2 justification process. Please contact the Office of Research Services and see the CRC website (**www.chairs.gc.ca**) for more information on eligibility.

Position Overview: We are seeking applications from emerging scholars who have a strong record of achievement and innovative research in the development of wearable diagnostic technologies and the automated analysis, management and interpretation of data from wearable devices and sensors. The CRC's focus will be on innovation in wearable technologies and the application of advanced analytics and artificial intelligence (AI) to the processing of diagnostic data coming from wearable devices. The CRC applicant's expertise may be in the development of wearable diagnostic technologies for any area of healthcare including musculoskeletal health, orthopaedics, cardiac, neurological, respiratory, hematological or vital signs monitoring. The successful CRC will contribute to and expand the scope of the research and teaching excellence in our school. This includes developing a focused, highly successful and collaborative research program in this field that is complimentary to ongoing research activities within Dalhousie University, and that engages with local, national and international research networks. This also includes graduate teaching in the areas of wearable biomedical devices and advanced biomedical data acquisition, processing and analytics for medical diagnostics, as well as teaching in the Biomedical Engineering certificate program in undergraduate engineering.

About SMBE: SBME is part of a vibrant cross-disciplinary biomedical research and industry community in Halifax, Nova Scotia. SBME offers graduate degrees in Biomedical Engineering as well as the undergraduate certificate program in Biomedical Engineering through the Faculty of Engineering. SBME faculty members at Dalhousie are advancing new technologies that improve disease diagnosis, treatment of medical disorders and traumatic injuries, and engaging in ground-breaking research to understand the structural and functional properties of tissues and cells. SBME at Dalhousie has established internationally recognized strengths in the areas of Tissue Engineering; Biomechanics; Imaging technology; Medical Device Design; Orthopaedic Implants; Biomaterial Design; Drug Delivery; and Cellular Electro/Mechanotransduction. SBME is home to world class research and associated state of the art facilities in biomechanical diagnostics and orthopaedic surgical robotics; wireless, operator-free ultrasound sensing and imaging; advanced biomaterials and biosensing; and electronic textiles for wearable sensors – all that would offer the successful CRC synergistic collaboration opportunities. The CRC would also be encouraged to generate new collaborations with computer science, health informatics, mechanical and electrical engineering and with clinician scientists within our community, as well as supporting and advancing the continued strength of SBME in the commercialization of biomedical research.

About Dalhousie University: Dalhousie is the leading graduate and research university of Atlantic Canada, with more than 18,500 students, including 3500 in graduate programs, from 115 countries. Dalhousie University is located in the friendly, energetic, ocean-side city of Halifax, Nova Scotia. The city and surrounding area host a wide range of cultural activities and opportunities. Excellent schools, sports facilities, and outdoor activities are also available locally.

Qualifications and Application Procedure: Applicants must have a PhD in a relevant field, a suggested two years of post-doctoral experience and a strong publication record in a related area. Applicants are recommended to seek registration as a professional engineer within 4 years of appointment (note that P. Eng registration does not require an undergraduate engineering degree). Please download and complete our CRC self ID form via the link:**https://cdn.dal.ca/content/dam/dalhousie/pdf/dept/hr/Employment-Equity/SelfID-External-Questionnaire-CRC-Only.pdf**.

Complete applications will include this self-id form, a cover letter, a curriculum vitae, a three-page maximum statement outlining their research program (highlighting the potential for attracting research funding from public and private sectors), a one-page statement of teaching interests, the names and contact information of three referees, and a maximum of three sample publications. Please note that this position is contingent upon a successful CRC application. **Application review will begin on December 9, 2024 and continue until the position is filled. It is anticipated that the position will begin on July 1, 2026.**

This position is a part of the Dalhousie Faculty Association (DFA) Bargaining Unit.

Dalhousie University commits to achieving inclusive excellence through continually championing equity, diversity, inclusion, and accessibility. In keeping with the principles of employment equity and the CRC program's equity targets, this position is designated to candidates who self-identify as a woman with a disability or a member of another gender equity-deserving group with a disability. All such qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. Dalhousie recognizes that candidates may self-identify in more than one equity-deserving group, and in this spirit, encourages applications from Indigenous Peoples of Turtle Island (especially Mi'kmaq), persons of Black/African descent (especially African Nova Scotians), and members of other racialized groups, persons with disabilities, women, persons identifying as members of 2SLGBTQIA+ communities, and all candidates who would contribute to the diversity of our community. In accordance with our Employment Equity Policy, preference will be given in hiring processes to candidates who self-identify as members of one or more of the equity-deserving groups listed above. For more information, including details related to our Employment Equity Policy and Plan and definitions of equity-deserving groups please visit **www.dal.ca/hiringfordiversity**.

If you require any support for the purpose of accommodation, such as technical aids or alternative arrangements, please let us know of these needs and how we can be of assistance. Dalhousie University is committed to ensuring all candidates have full, fair, and equitable participation in the hiring process. Our complete Accommodation Policy can be viewed **here**. To request accommodation at any stage in the hiring process, please contact Courtney Dillman (**courtney.dillman@dal.ca**) (HR Director, Faculty of Medicine).

Posting Detail Information

Open Date

Close Date   12/09/2024

Open Until Filled   Yes

Quick Link for Direct Access to Posting   https://dal.peopleadmin.ca/postings/17750

Documents Needed to Apply

Required Documents

1. Résumé / Curriculum Vitae (CV)
2. Cover Letter
3. Teaching Statement
4. Research Statement
5. Sample Publication(s)
6. List of referees

Optional Documents