THE UNIVERSITY OF BRITISH COLUMBIA

Faculty of Medicine
Faculty of Applied Science

CAREER OPPORTUNITY

Assistant or Associate Professor, Tenure Track, CRC Tier 2 – Neurobioengineering | School of Biomedical Engineering

Date Posted: September 24, 2019

The School of Biomedical Engineering (SBME) at The University of British Columbia (UBC), Vancouver campus, in collaboration with the Djavad Mowafaghian Centre for Brain Health (DMCBH), invites applications from exceptional emerging scholars for a Canadian Institutes of Health Research (CIHR) Tier 2 Canada Research Chair (CRC) in Neurobioengineering. The successful candidate will be eligible to hold an appointment at the rank of Assistant or Associate Professor, tenure track.

The School of Biomedical Engineering

The Faculties of Medicine and Applied Science have partnered to create the SBME, a new flagship entity at UBC, and a top strategic priority for the University and both Faculties. The SBME is a nucleus for education and training, research, and innovation in biomedical engineering, creating new knowledge, new academic and training programs, and fostering translation and innovation. UBC SBME students will distinguish themselves by a deep education in biology, deconstructed using engineering science and design, and applied to the solution of real-world biomedical challenges. Our SBME faculty conduct research that advances our fundamental understanding of human biology, and yields technologies and therapies that advance our health and wellbeing.

The Djavad Mowafaghian Centre for Brain Health

The DMCBH builds on UBC's impressive legacy of brain research and brings together experts in the fields of neuroscience, neurology, psychiatry, and rehabilitation in a hub for training, research, and clinical care. The DMCBH comprises of more than 160 investigators with multidisciplinary expertise, bridging basic science and clinical care in a state-of-the-art facility on UBC's Point Grey campus. The DMCBH provides opportunities for education, collaboration, and interaction with patients from across BC. The DMCBH represents a partnership between Vancouver Coastal Health and the Faculty of Medicine at UBC, and was made possible with a generous donation from Dr. Djavad Mowafaghian as well as contributions from other philanthropists and leaders, as well as those of the federal and provincial governments. More information about the DMCBH is available at https://www.centreforbrainhealth.ca.

The successful candidate will be expected to lead an independent research program with potential to achieve international recognition in their field in the next five to ten years, participate in graduate and undergraduate teaching in biomedical engineering and related topics, and provide service within the University and to both the academic and broader community. Of particular interest is research that uses bioengineering techniques to understand, repair, replace, or enhance neural systems. Non-exhaustive illustrative examples of more specific areas of research that would complement current starts at UBC and the DMCBH include the following: emergent modeling of brain function, disease models of neurodegeneration, use of neural system-machine interface strategies in disease, neuro-prostheses, neural repair and regeneration. Proposal of an original, innovative research program of high quality, a collaborative team-based approach to building a successful research program, and having potential to attract, develop and retain excellent trainees, student and future researchers are important elements of successful candidates.

Applicants are expected to have a Ph.D. or equivalent, a strong background in bioengineering, biophysics, biomedical engineering, regenerative medicine, systems or synthetic biology, chemical and biological engineering and/or related fields, a track record of success in collaborative and convergent research at the interface of engineering, life sciences and medicine, and demonstrated evidence of success, or potential ability for success, in teaching. Successful candidates may be expected

to register, or be eligible to register, with the Association of Professional Engineers and Geoscientists of British Columbia.

The Chair is equally open to individuals of all nationalities. The Chair is subject to review and final approval by the CRC Secretariat. Applicants must meet the eligibility requirements for a CRC Tier 2 position. Tier 2 Chairs are intended for exceptional emerging scholars with less than 10 years of experience as an active researcher in their field at the time of nomination. Applicants who are more than 10 years from having earned their highest degree may have their eligibility for a Tier 2 Chair assessed through the program's Tier 2 justification process; please contact the UBC CRC office ubc.crc@ubc.ca for more information. Please consult the Canada Research Chairs website www.chairs.gc.ca for full program information, including further details on eligibility criteria.

Pursuant to Section 42 of the BC Human Rights code, the selection will be restricted to members of the following designated groups: women, visible minorities (members of groups that are racially categorized), persons with disabilities, and Indigenous peoples. Applicants to Canada Research Chair positions are asked to complete this equity survey as part of the application, and candidates from these groups must self-identify as belonging to one or more of the designated equity groups to be considered for the position. Because the search is limited to those self-identifying as members of designated equity groups, candidates must also provide their name to be considered.

Personal information is collected under the authority of sections 26(a) and 26(c) of the BC *Freedom of Information and Protection of Privacy Act.* The information you provide will only be used to determine whether you qualify for participation in this hiring process. Data will be collected by the Equity & Inclusion Office and only the names of those who identify as women, visible minorities (member of groups that are racially categorized) and/or Indigenous peoples will be shared with the search committee. The names of those self-identifying as having a disability will be provided separately to the search committee. Responses will be stored in a secure database.

Salary will be commensurate with qualifications and experience. Applicants should submit a curriculum vitae, a statement of teaching interests and accomplishments (up to 2 pages), a five-year research program plan (up to 4 pages) and names and contact information of four arm's length referees. Applications must be submitted online on the UBC Careers website. Please do not submit applications by e-mail.

Review of applications will begin October 21, 2019 and will continue until the position is filled. The anticipated start date for this position is **July 1, 2020** or upon a date to be mutually agreed.

In assessing applications, UBC recognizes the legitimate impact that leaves (e.g., maternity leave, leave due to illness) can have on a candidate's record of research achievement. These leaves will be taken into careful consideration during the assessment process.

The **University of British Columbia** is a global centre for research and teaching, consistently ranked among the top 20 public universities in the world. Since 1915, UBC's entrepreneurial spirit has embraced innovation and challenged the status quo. UBC encourages its students, staff and faculty to challenge convention, lead discovery and explore new ways of learning. At UBC, bold thinking is given a place to develop into ideas that can change the world.

UBC Faculty of Medicine Vision: To Transform Health for Everyone.

Ranked among the world's top medical schools with the fifth-largest MD enrollment in North America, the **UBC Faculty of Medicine** is a leader in both the science and the practice of medicine. Across British Columbia, more than 11,000 faculty and staff are training the next generation of doctors and health care professionals, making remarkable discoveries, and helping to create the pathways to better health for our communities at home and around the world.

The Faculty of Medicine is comprised of approximately 2,200 administrative support, technical/research and management and professional staff, as well approximately 650 full-time academic and over 9,000 clinical faculty members — is composed

of 19 academic basic science and/or clinical departments, three schools, and 24 research centres and institutes. Together with its University and Health Authority partners, the Faculty delivers innovative programs and conducts research in the areas of health and life sciences. Faculty, staff and trainees are located at university campuses, clinical academic campuses in hospital settings and other regionally based centres across the province.

UBC Faculty of Applied Science Vision: To provide an unparalleled research and learning environment in which creative minds work together to address today's greatest challenges in service to society.

The Faculty of Applied Science includes all UBC Engineering activities at both the UBC Vancouver and UBC Okanagan, as well as the Schools of Architecture and Landscape Architecture, Community and Regional Planning and Nursing. The Faculty was one of UBC's three founding faculties, admitting some of the University's first students in engineering in 1915. The Faculty includes about 300 faculty members and more than 8,300 students.

The Faculty of Applied Science holds a prominent place within the UBC community and through its five professions, it has played an important role in shaping our society, both in British Columbia and beyond.

The University is also committed to creating and maintaining an inclusive and equitable work environment for all members of its workforce, and in particular, for its employees with disabilities. An inclusive work environment for employees with disabilities presumes an environment where differences are accepted, recognized and integrated into current structures, planning and decision-making modes. For contact information regarding UBC's accommodation and access policies and resources, please visit the Centre for Accessibility website at: ***https://facultystaff.students.ubc.ca/student-development-services/centre-accessibility/faculty-and-staff-disabilities***. *UBC Vancouver staff or faculty may contact the Health Promotion Programs (**information@hse.ubc.ca**) or the Centre for Accessibility (**accessibility@ubc.ca**) for support and assistance with accommodation questions.*

Equity and diversity are essential to academic excellence. An open and diverse community fosters the inclusion of voices that have been underrepresented or discouraged. We encourage applications from members of groups that have been marginalized on any grounds enumerated under the B.C. Human Rights Code, including sex, sexual orientation, gender identity or expression, racialization, disability, political belief, religion, marital or family status, age, and/or status as a First Nation, Metis, Inuit, or Indigenous person. All qualified candidates are encouraged to apply; however Canadians and permanent residents of Canada will be given priority.

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