



THE UNIVERSITY OF BRITISH COLUMBIA



School of Biomedical Engineering
Faculty of Applied Science | Faculty of Medicine
The University of British Columbia

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www.sbme.ubc.ca

Assistant or Associate Professor in Molecular and Cellular Neuro Bioengineering

The School of Biomedical Engineering at the University of British Columbia (UBC), Vancouver campus, in partnership with the Djavad Mowafaghian Centre for Brain Health, invites applications for a full-time position at the rank of Assistant Professor (tenure track) or Associate Professor (tenure). This position will have a membership as a Core Member with the Djavad Mowafaghian Centre for Brain Health, a UBC Senate-approved centre supported by the UBC Faculty of Medicine.

The School of Biomedical Engineering is a partnership between the Faculties of Medicine and Applied Science, acting as 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. Its vision is to transform health care outcomes through unconstrained exploration of the best possible integrative solutions across engineering, medicine, and biology. Through collaborative, innovative, and interdisciplinary approaches and building on UBC academic and research excellence, the School of Biomedical Engineering aspires to be a global leader in biomedical engineering research, education and translation. For more information about the School of Biomedical Engineering, please visit <https://www.sbme.ubc.ca/>.

The Djavad Mowafaghian Centre for Brain Health brings together experts in the fields of neuroscience, neurology, psychiatry, and rehabilitation in a hub for training, research, and clinical care. The philosophy of the centre is to work with all facets of brain health, as knowledge gained from treating and investigating one disease of the brain will advance our understanding of others. The centre brings research closer to patients, providing British Columbians with better access to the best possible treatments. For more information about the Djavad Mowafaghian Centre for Brain Health <https://www.centreforbrainhealth.ca/>.

Reporting to the Director of the UBC School of Biomedical Engineering, the successful candidate will lead an independent research program with potential to achieve international recognition for leadership and research excellence in their field, 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. Research areas of particular interest include: **cellular and molecular engineering** approaches to neurological disorders; **bioengineering neural cell fate control**, brain integration or function; engineering cellular or molecular systems that **recapitulate neural function**; strategies to **manipulate neural cellular behaviour** at the molecular level, or related areas. A focus on the development of novel bioengineering approaches and technologies to **modulate the neural-immune axis** and **applications to diseases** such as Multiple sclerosis (MS) and other diseases with a neural-immune axis would be particularly exciting.

The successful candidate will hold a Ph.D. or equivalent, have a strong training background in **bioengineering, biomedical engineering, neuro-engineering, stem cell engineering**, and/or related fields, and demonstrated experience in collaborative and convergent research at the interface of engineering and molecular/cellular neuroscience. The successful candidate will also have demonstrated ability to effectively communicate and interact with empathy, understanding and, respect of diverse and divergent perspectives and behaviours. Proposal of an original, innovative research program of high quality and novelty, a collaborative team-based approach to building a successful research program and team, and having potential to attract, develop and retain excellent trainees, students and future researchers are important characteristics of desirable candidates. If appointed at the rank of Assistant Professor, the successful candidate will have demonstrated evidence of ability in teaching and demonstrated ability in scholarly activity. If appointed at the rank of Associate Professor, the successful candidate will have demonstrated evidence of successful teaching and ability to direct graduate students and evidence of sustained and productive scholarly activity.

Consideration will be given to candidates who hold a P.Eng. licence or who are eligible to obtain a P.Eng. license and consequently register for one with Engineers and Geoscientists BC. Individuals with quantitative science backgrounds such as Math, Computer Science, or Physics are also encouraged to apply if they are eligible for a Limited Licence with Engineers and Geoscientists BC (see <https://www.egbc.ca/Registration/Individual-Registrants/How-to-Apply/Professional-Registration/Professional-Licensee> for details on the Limited Licence).



Salary will be commensurate with qualifications and experience. Interested applicants should submit an application package consisting of: **curriculum vitae**, a **statement of teaching interests** and accomplishments (up to 2 pages), a **five-year research program plan** that includes, but not limited to, cell-based therapies (up to 4 pages), and a brief statement of the applicant's current or planned contributions to **advancing equity, diversity, and inclusion** in academic, professional, or community contexts (1-2 pages). Your application should also include the names and contact information for four arm's length referees. Please submit your application online at <https://ubc.wd10.myworkdayjobs.com/ubcfacultyjobs>.

For questions, please contact the BC MS Cell Therapies Translational Research Network:
Email: ms.researchnetwork@ubc.ca Subject Line: Asst or Assoc Professor in Molecular and Cellular Neuro Bioengineering

Review of Applications will begin October 15, 2023, and will continue until the position is filled. The anticipated start date is July 1, 2024, 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.

At UBC, we believe that attracting and sustaining a diverse workforce is key to the successful pursuit of excellence in research, innovation, and learning for all faculty, staff and students, and is essential to fostering an outstanding work environment. Our commitment to employment equity helps achieve inclusion and fairness, brings rich diversity to UBC as a workplace, and creates the necessary conditions for a rewarding career.

The University is committed to creating and maintaining an inclusive and equitable work environment for all members of its workforce. An inclusive work environment presumes an environment where differences are accepted, recognized, and integrated into current structures, planning, and decision-making modes. Within this hiring process we will make efforts to create an inclusive and equitable process for all candidates (including but not limited to people with disabilities). Confidential accommodation is available on request for applicants who are short-listed. Please contact Carmen de Hoog via email at carmen.dehoog@ubc.ca.

To learn more about UBC's Center for Workplace Accessibility, visit the website here <https://hr.ubc.ca/CWA>.

UBC - One of the World's Leading Universities. As one of the world's leading universities, the University of British Columbia creates an exceptional learning environment that fosters global citizenship, advances a civil and sustainable society, and supports outstanding research to serve the people of British Columbia, Canada and the world. Our 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 as 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.

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 over 300 full-time faculty members and more than 8,600 students. The Faculty of Applied Science comprises a unique constellation of disciplines and is committed to creating lasting change by discovering and applying knowledge. Our core purpose is to discover, design, and innovate, provide unwavering top-tier education, and champion a community of responsible professionals devoted to serving a thriving, sustainable and healthy society. Our work and the professional disciplines we represent span the entire human-centred built environment. We represent innovation at all scales from nanoscale electronic devices that power communications to the design of entire cities.

The UBC Vancouver Campus is located on the traditional, ancestral, and unceded territory of the xʷm əθkʷəy̓əm (Musqueam) people. The City of Vancouver is located on Musqueam, Squamish, and Tsleil-Waututh First Nations territory.