



Tier 1 Canada Research Chair (CRC) University of British Columbia

The University of British Columbia (UBC), Vancouver campus, is seeking an internationally recognized leader in quantitative medical and biological imaging for a new Tier 1 Canada Research Chair (CRC) position. This position will be jointly held in the Department of Electrical and Computer Engineering and the Department of Urologic Sciences, with a possible joint appointment in the new UBC School of Biomedical Engineering. The Chair position is expected to be an appointment at the rank of Professor.

We are seeking candidates with extensive expertise in computational extraction of image-based features and quantitative analysis of imaging data of varying scales including molecular, cellular, tissue and organ imaging (including imaging genetics). Research areas of interest include, but are not limited to, image acquisition, data analysis (particularly artificial intelligence and machine learning approaches), data modeling and visualization, and the application of these technologies to both fundamental and applied clinical questions. The successful candidate would be expected to drive the use of such image-derived metrics, models, technologies and algorithms to improve medical diagnostic, prognostic and theranostic research, and aid in treatment planning and prediction of therapeutic response and disease outcome.

The Chair holder is expected to be an outstanding researcher acknowledged as a world leader in the field, and to have a track record fostering collaborative and interdisciplinary research. The Chair holder will articulate a strategic plan for developing an exemplary research program that complements ongoing research programs at UBC and engages with local, national, and international research networks. The Chair holder is expected to play an active role in collaborating with the diverse group of researchers in quantitative medical and biological imaging in these institutions and local industry, in particular in areas related to the urologic sciences. The goal is to increase UBC's visibility and research capability in quantitative medical and biological imaging by leveraging the strength of existing research programs.

Applicants for the Chair position must be a full professor (or equivalent) in the applied or natural sciences with a proven academic record, and must also have demonstrated excellence in teaching. They must either be registered or be eligible to register, with Engineers and Geoscientists British Columbia (<https://www.egbc.ca>). The Chair holder will have reduced teaching responsibilities but will be expected to participate in undergraduate and graduate teaching activities and to provide service within their academic units, at the University, and to both the academic and broader community.

The Department of Electrical and Computer Engineering in the Faculty of Applied Science has 54 faculty members, including two Tier I CRCs and 4 Tier II CRCs, with approximately 20 members



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performing research in areas related to biomedical technologies. The Department is one of the largest academic units on campus, with approximately 400 graduate students and 1,000 undergraduate students currently enrolled in our programs. It has strengths in research areas related to the Chair such as ultrasound imaging, magnetic resonance imaging, image-guided interventions, and biomedical image computing.

The Department of Urologic Sciences in the Faculty of Medicine develops programmes of excellence in key areas of urology with collaborations across departments, faculties, schools and industrial partners which, in conjunction with translational initiatives, promote congruent progress on both the academic and clinical care delivery trajectories. It boasts extensive state of the art infrastructure such as The Vancouver Prostate Centre (UBC Centre of Excellence), a vibrant translational cancer research facility housing an outstanding team of 25 scientists and clinicians focused on the discovery, development, and translation of cancer therapeutics. The new UBC School of Biomedical Engineering is a joint initiative between the Faculty of Medicine and the Faculty of Applied Science and is a new innovation hub for education and research across both Faculties, working with industry and health partners to accelerate discoveries and improve health outcomes in BC and around the world.

UBC's interdisciplinary ecosystem includes world-class institutions, such as the BC Cancer Agency (including Centre for Lymphoid Cancers, Deeley Research Centre on Immunology, Michael Smith's Genome Sciences Centre, Advanced Therapeutics, Cancer Control Research, Cancer Endocrinology, Cancer Imaging, Molecular Oncology and the Breast Cancer Program), The Centre for Drug Research and Development, UBC MRI Research Centre, and Medical Physics (CAMPEP accredited).

The University of British Columbia, established in 1908, is rated among the top 40 research-intensive universities in the world. UBC's Vancouver campus is located on the point of a peninsula looking out towards the Pacific Ocean and surrounded by forest. Vancouver is a vibrant cosmopolitan city that has a wealth of recreational opportunities and is considered one of the most livable cities in the world.

Applications should include a detailed curriculum vitae, research plan, teaching dossier and names and contact details of four references (contacted only after permission). Applications will be considered until the position is filled and are subject to review and final approval by the CRC review process.

UBC is partnering with the executive search firm Perrett Laver on this search process. Further information, including details of how to apply, can be downloaded at <http://www.perrettlaver.com/candidates> quoting reference **3311**. The selection committee will begin reviewing applications on May 1, 2018 and will continue until the position is filled. The



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anticipated start date for this position is January 1, 2019, or upon a date to be mutually agreed. For informal inquiries, please contact Audrey Gamet at Audrey.gamet@perrettlaver.com.

Applicants are asked to complete the following equity survey: https://ubc.ca1.qualtrics.com/jfe/form/SV_9ojmHv9gzjRupPD. The survey information will not be used to determine eligibility for employment, but will be collated to provide data that can assist us in understanding the diversity of our applicant pool and identifying potential barriers to the employment of designated equity group members. Your participation in the survey is voluntary and anonymous. This survey takes only a minute to complete. You may self-identify in one or more of the designated equity groups. You may also decline to identify in any or all of the questions by choosing "not disclosed".

More information can be found at:

CRC: www.chairs.gc.ca

Electrical and Computer Engineering: www.ece.ubc.ca

University of British Columbia: www.ubc.ca

British Columbia: www.hellobc.com

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 will be given priority.