The Department of Radiology, jointly with the Department of Medicine, at The University of British Columbia (UBC) invite applications for a full-time (1.0 FTE) faculty position at the rank of Assistant Professor, tenure track, in the area of artificial intelligence (AI) in radiology and precision medicine, with an emphasis on translational research. This position will be based at the Djavad Mowafaghian Centre for Brain Health (DMCBH) and the UBC James Hogg Research Centre.

The Departments of Radiology and Medicine are internationally renowned for their clinical and basic science research. Both Departments have strongly established research programs in imaging and have identified AI as a priority area for growth. The DMCBH and the UBC James Hogg Research Centre are world-class clinical and research centres, and both have developing programs in AI in imaging and precision medicine, with a number of investigators involved in relevant studies, particularly in (but not limited to) diseases of the brain, heart, and lung. The DMCBH houses the Charles E. Fipke Integrated Neuroimaging Suite, which includes a new 3T MRI scanner, unique hybrid PET-MRI scanner, MRI-compatible non-invasive brain stimulation devices, and future plans for magnetoencephalography. In the UBC James Hogg Research Centre, in addition to ongoing work in AI on CT scans in heart and lung disease, a new research 3T MRI will be installed that will enable the deployment of novel AI techniques on unique sets of MRI and CT scans in patients with heart, lung, and blood vessel diseases. Both Centres place great importance in creating supportive and collaborative environments for interdisciplinary research, and many junior faculty members have flourished.

The incumbent will lead a translational research program at the interface of AI and medicine, particularly in the context of imaging, and participate in graduate and undergraduate teaching, including the development of new courses in applied AI for clinical applications. The successful candidate will have the opportunity to recruit students in several graduate programs, including Neuroscience, Bioinformatics, Experimental Medicine, and Biomedical Engineering. All of these programs support applied research in technology, including AI, and as a group can accommodate students from diverse backgrounds. The incumbent would also have access to medical undergraduates and residents working on research projects.

Applicants must hold a PhD in computer science, computer engineering, or related field, and have a strong technical background in machine learning. The successful candidate will have proficiency in the development and application of innovative AI techniques to medical images for clinical applications, as demonstrated by publications in top-tier journals and conferences, and production of tools with high potential for translation. The successful candidate will have demonstrated evidence of ability in teaching and will be expected to participate in the undergraduate, graduate, and postgraduate teaching activities of the units. The incumbent will also be expected to provide service to the University and the broader academic and professional community. In summary, the position is ideal for an interdisciplinary, highly collaborative researcher with experience in translational AI research, and an interest in the development of new educational programs.

Salary will be commensurate with qualifications and experience. Competitive start-up infrastructure development funds will be provided. Applicants should submit a letter of application which addresses scholarly, professional and creative work and teaching interests, detailed curriculum vitae, statement of research activities (up to 4 pages), and names of three references to:

Dr. Bruce Forster
Professor and Head
Faculty of Medicine
Department of Radiology, UBC
c/o Loretta Choi
E-mail: Loretta.choi@vch.ca
Subject Line: Assistant Professor in AI and Precision Medicine

Review of applications will begin on April 1, 2020 and 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.

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.

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 - 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.

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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