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The University of Saskatchewan values diversity, and Aboriginal engagement is a strategic priority.

Canada Research Chair in Machine Learning

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Department: Medical Imaging

Requisition: req1200

Open Date: 10/24/2017

Description: There is 1 opening(s) for this posting. Located in Saskatoon.

The University of Saskatchewan (UofS), invites applications for a Tier 2 Canada Research Chair (CRC). The Government of Canada has established the CRC program to enable Canadian Universities to foster world-class research excellence by attracting and retaining the most accomplished and promising researchers. The proposed CRC aligns with the University's strategic plan <http://www.usask.ca/vpresearch/strategic/> (<http://www.usask.ca/vpresearch/strategic/>) that identifies knowledge, creation, innovation and impact.

The University of Saskatchewan is committed to employment equity and diversity. We are actively seeking applications from women, members of racialized groups/visible minorities, Aboriginal persons, persons with disabilities, persons of any sexual orientation, and persons of any gender identity or gender expression.

The candidate for the Tier 2 CRC Chair will be an excellent emerging researcher who has demonstrated creativity and the potential to achieve international recognition in the next 5-10 years in the field of **Machine Learning with applications to Medical Imaging**. Acceptable areas within Machine Learning are broad including patient risk stratification, medical imaging feature selection, cognitive computing, deep learning and other data analytics techniques with potential to improve clinical decision support and patient outcomes. The candidate will hold a PhD or equivalent in imaging science, computer science or Engineering or relevant areas, with an outstanding record of research. The nominee must be engaged in an original, innovative program of research, which would have the potential to attract excellent graduate students. Preference will be given to the candidate whose research mostly clearly connects **Machine Learning and Medical Imaging** although other application areas within Medicine may be considered. A critical aspect is an outstanding record of scholarly publications,

history of extramural funding and establishing successful research collaborations.

The successful candidate will be appointed to a tenure-track (probationary) position at the level of Assistant or Associate Professor. Rank and salary will be commensurate with qualifications and experience. The position will be effective as of **May 1, 2018**.

The candidate will be expected to collaborate with the College of Medicine and the UofS research office in developing their nomination for the Canada Research Chair program, particularly the proposed program of research. The CRC will be expected to establish an independent, highly productive research program in **Machine Learning in Medical Imaging**, which will attract external funding, including tri-council funding. The CRC will also be expected to attract excellent graduate students and supervise them effectively.

A CRC in Machine Learning in Medicine is expected to be a key participant within the College of Medicine overall research program. The CRC will join a rich collaborative network within the College of Medicine and UofS and have the opportunity to collaborate with colleagues from the across the College of Medicine, as well as UofS colleagues from Computer Science and Engineering. Access to high performance computing resources are readily available.

The University of Saskatchewan is a large, research-intensive university with approximately 21,000 full-time students, 3200 graduate students and a full range of academic and professional programs. Further information about the UofS can be found here: <https://www.usask.ca/> (<https://www.usask.ca/>). Further information about the College of Medicine can be found here:

<https://medicine.usask.ca/> (<https://medicine.usask.ca/>) and the Department of Medical Imaging can be found here: <http://medicine.usask.ca/department/clinical/medical-imaging.php> (<http://medicine.usask.ca/department/clinical/medical-imaging.php>).

The University of Saskatchewan is located on Treaty Six Territory and the homeland of the Metis in Saskatoon, Saskatchewan, a city with a population of **265,000**. Saskatoon has several large parks, an international airport, theatres, and a thriving arts community, along with reasonably priced housing.

<https://www.saskatoon.ca/new-saskatoon> (<https://www.saskatoon.ca/new-saskatoon>)

In accordance with the regulations set for Tier 2 Canada Research Chairs (www.chairs-chaire.gc.ca (<http://www.chairs-chaire.gc.ca>)), Tier 2 chairs are intended for exceptional emerging scholars (i.e., candidates must have 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 (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 consult the Canada Research Chair website for full information, including further details on eligibility criteria. http://www.chairs-chaire.gc.ca/program-programme/nomination-mise_en_candidature-eng.aspx (http://www.chairs-chaire.gc.ca/program-programme/nomination-mise_en_candidature-eng.aspx)

The applicant should submit the following: A letter of interest; a curriculum vitae;

a 1000 word outline of the candidate's research program, including past accomplishments and future plans; a 500 word statement about their approach to graduate supervision; and the names and contact information of three referees. Please send the completed application in PDF form to:

Dr. Paul Babyn, Head
Department of Medical Imaging, University of Saskatchewan
Room 1566.1
Saskatoon, Saskatchewan, CANADA, S7N 0W8
Email: paul.babyn@saskatoonhealthregion.ca
(<mailto:paul.babyn@saskatoonhealthregion.ca>)

Applications will be accepted until the position is filled. Review of applications will begin after September 15, 2017.

Accommodations are available for applicants with disabilities throughout the recruitment process. If you require accommodations for interviews or other meetings, please contact Dr. Paul Babyn.

The University of Saskatchewan is strongly committed to a diverse and inclusive workplace that empowers all employees to reach their full potential. All members of the university community share a responsibility for developing and maintaining an environment in which differences are valued and inclusiveness is practiced. The university welcomes applications from those who will contribute to the diversity of our community.
