



Tier 2 Canada Research Chair in Artificial Intelligence for Health

Dalhousie's Faculty of Computer Science invites applications for a probationary tenure-stream position as a Canada Research Chair (CRC) Tier 2 in Artificial Intelligence for Health at the level of Assistant Professor with an anticipated start date of July 1, 2020. The successful candidate will show exceptional promise in the application of techniques such as machine learning and Bayesian network approaches to problems in health and health care.

Applicants must have a PhD in Computer Science or other relevant discipline; be, or have the potential to become, an internationally recognized leader in their field; and complement existing research strengths and strategic directions of the Faculty. The candidate will be expected to lead new interdisciplinary research projects in partnership with researchers in other Faculties such as Medicine and Health. Possible research areas are broad, examples of which might include genetics and gene-environment interaction, imaging and other clinical diagnostics, environmental and social determinants of health, health records, or the organization and deployment of health resources.

This position is one of three in the Collaborative Health Solutions (CHS) cluster, a joint initiative among the health-related faculties at Dalhousie. CHS researchers will form part of the health-research ecosystem in Nova Scotia, which encompasses academic researchers; health-care providers, managers, and policymakers; industry; health-data resources; and large initiatives such as the provincial Integrated Health Research and Innovation Strategy (IHRIS; <https://nsihris.wordpress.com/>).

Applicants should have demonstrated potential to establish independent scholarly research. The successful candidate will teach both undergraduate and graduate courses, develop graduate-level courses, and support strategic initiatives. The applicant will be expected to establish a strong externally funded research program, supervise graduate student research, and foster existing and new collaborations with governments, the health-care system, industry, and other members of Dalhousie's research community.

Dalhousie recognizes that career paths can be diverse and that career interruptions may occur. Applicants are encouraged to include, in their cover letter, an explanation of the impact that any career interruptions may have had on their record of research achievement.

Dalhousie University is committed to fostering a collegial culture grounded in diversity and inclusiveness. In keeping with the principles of employment equity and the CRC program's equity targets, **this position is restricted to candidates who self-identify in one or more of the following groups: women, racially visible persons, Indigenous people, persons with a disability, or persons of minority sexual orientations or gender identities.** (See www.dal.ca/becounted/selfid for definitions of these groups.)

Canada Research Chairs in the Faculty of Computer Science are allocated financial support including enhanced start-up funds and support for graduate students, significant reduction in teaching commitments, and administrative support at the Faculty level in the preparation of grant applications. The successful applicant will have the opportunity to access unique data resources, including genetics, imaging, clinical databases and registries, longitudinal cohorts, and electronic health records.

The Faculty of Computer Science is a research-intensive faculty within Dalhousie, with 40 faculty members, including Tier 1 and Tier 2 CRCs, and over 1400 students, one-third of whom are graduate students at the master's or doctoral level. The Faculty offers bachelor's degree programs as well as research-intensive Master's and PhD programs, and partners with other Faculties to offer Master's programs in Electronic Commerce, Health Informatics, and Computational Biology and Bioinformatics. The

Big Data Analytics & Machine Learning research cluster is the largest in the Faculty, and FCS is home to the Institute for Big Data Analytics, which carries out fundamental and applied research in areas including health, medicine, and oceans.

Dalhousie University is located in Halifax, Nova Scotia (<http://www.halifaxinfo.com>), which is the largest city in Atlantic Canada and affords its residents a high quality of life. Dalhousie University is a member of the U15 research-intensive universities in Canada. This CRC position is aligned with two of Dalhousie's Strategic Research Priorities, "Health People, Healthy Communities, Healthy Populations" and "Big Data" (<https://www.dal.ca/research/SignatureResearchClusters.html> .)

The CRC program was established by the Canadian Federal Government with the purpose of attracting outstanding researchers to the Canadian university system. Tier 2 Chairs are intended for exceptional emerging scholars (i.e. the candidate must have been an active researcher in their field for fewer than 10 years at the time of nomination). Applicants who are more than 10 years from their highest degree (and where career breaks exist, including maternity leave, extended sick leave, etc.) may have their eligibility for a CRC Tier 2 assessed through the program's Tier 2 justification process. Please contact the research grants office and see the CRC website (www.chairs.gc.ca) for more information on eligibility.

Dalhousie University recognizes its obligation to accommodate candidates in order to ensure full, fair, and equitable participation in the hiring process. Our complete *Accommodation Policy* can be viewed online at: www.dal.ca/policies. Applicants can contact Anne Publicover (annep@cs.dal.ca) if they have requests for accommodations (e.g. for candidates with hearing impairments, mobility impairments, etc.)

Applications must include an application letter, curriculum vitae, a statement of research and teaching interests, sample publications, and letters of reference from two referees. A complete application must also include a separate completed Self-Identification Questionnaire, which is available at <http://www.dal.ca/becounted/selfid>. Review of applications will commence **Monday, October 28, 2019**. Submission address for application documents and reference letters: appointments@cs.dal.ca.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

GREAT CAREERS. GREAT CHOICE.