Canada Research Chair Tier 2 Software Testing and Analysis

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The Department of Computer Science in the Faculty of Science at The University of British Columbia (UBC) invites applications for an **NSERC Tier 2 Canada Research Chair** (CRC) in Software Testing and Analysis. Applicants must hold a full-time, tenure-track or tenured appointment as Assistant or Associate Professor in the Faculty of Science at UBC as this is an internal search.

The successful candidate will be an emerging scholar who has achieved public and academic recognition for their research in the field of software engineering as it applies to large software systems with a particular focus on software testing and analysis. The candidate must have a PhD in a relevant field. The candidate should work in an area that leverages AI and search-based techniques to improve software development tooling. The scholarly profile and proposed research must meet the criteria of the CRC program and demonstrate an excellent fit with institutional goals and the aims of the position. Canada Research Chairs are expected to maintain an outstanding program of research; to teach at the undergraduate and graduate levels; to attract and supervise undergraduate, graduate, and postdoctoral trainees; and contribute to service at the University and to the broader scientific community. Tier 2 CRCs are tenable for five years and are renewable once. At the time of nomination, applicants should be no more than 10 years from their highest degree. Applicants who are more than 10 years from earning their highest degree, but who have had career breaks such as maternity, parental, or an extended sick leave, may have their eligibility for a Tier 2 CRC assessed through the program's Tier 2 justification process. All CRC nominations are subject to review and final approval by the CRC Secretariat. Please consult the Canada Research Chairs website (https://www.chairs-chaires.gc.ca/program-programme/nomination- mise_en_candidature-eng.aspx) for full program information, including details on eligibility criteria.

The Department of Computer Science (www.cs.ubc.ca), located on the UBC Vancouver campus, is one of the top 25 Computer Science departments worldwide with 67 faculty, 2700 undergrads, 240 grads and 10 postdoctoral research fellows. Faculty members excel in both theory and methods research as well as collaborative research with domain-area experts. Our faculty include a Canada 150 Research Chair, CIFAR Chairs, and Fellows of the Royal Society of Canada, ACM, IEEE, SIAM and the Sloan Foundation.

The Vancouver campus of UBC is situated on the traditional, ancestral, and unceded territory of the *xʷməθkʷəyəm* (Musqueam). UBC is a global center for research and teaching, consistently ranked among the top 20 public universities in the world. As one of the world's leading

universities, UBC 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.

The CRC Equity, Diversity, and Inclusion Action Plan guides the University's efforts to enhance the participation of individuals from the four federally designated groups through chair allocation. The four groups are women and gender minorities, Indigenous Peoples, persons with disabilities, and visible minorities/members of racially categorized groups.

In accordance with UBC's CRC Equity, Diversity, & Inclusion Action Plan [https://research.ubc.ca/federal-research-chair-programs/canada-research-chairs/ubcs-commitment-equity-diversity-and] and pursuant to Section 42 of the BC Human Rights Code, the selection will be restricted to members of the following designated groups: people with disabilities, Indigenous people, racialized people, women, and people from minoritized gender identity groups. Currently, UBC has a gap in representation for people with disabilities. Until such time as this is remedied, the names of those self-identifying as having a disability will be provided separately to the search committee in order for them to follow preferential hiring strategies. Applicants to CRC positions are asked to complete this equity survey [https://ubc.ca1.qualtrics.com/jfe/form/SV_6WJHol7SfPxRMu9] as part of the application, and candidates from these groups must self-identify as belonging to one or more of the designated equity groups to be considered for the position. Because the search is limited to those self-identifying as members of designated equity groups, candidates must also provide their names to be considered.

Personal information is collected under the authority of sections 26(a) and 26(c) of the BC Freedom of Information and Protection of Privacy Act. The information you provide will only be used to determine whether you qualify for participation in this hiring process. Equity Survey Data is collected by the UBC Equity & Inclusion Office and stored in a secure database, and only the names of those who are eligible will be shared with the search committee.

The application package should include:

1. *Curriculum vitae*.
2. Letter of interest describing the proposed research program (maximum 6 pages):
    - Executive Summary (100 words max.) – objectives of the proposed research program
    - Context
    - Methodology
    - Engagement with research users and communication of results
    - Description of proposed training strategies
3. The names and addresses (e-mail included) of three referees, who can speak to your research, teaching, administrative abilities, and service activities. One needs to be arms-length.

The application package must be submitted to crc-recruiting-chair@cs.ubc.ca with the email subject line: CRC Tier 2 in Software Testing and Analysis. The deadline to receive applications is **Aug 5, 2024**. Successful applicants are expected to submit an application to CRC national competition in October 2024.

Questions about the job posting can be directed to the committee chair, Dr. Margo Seltzer Department of Computer Science at crc-recruiting-chair@cs.ubc.ca.

In assessing applications, UBC recognizes the legitimate impact that leaves (e.g. parental 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.

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 appreciated, recognized, and integrated into current structures, planning, and decision-making modes. Within this hiring process, we are committed to creating an inclusive and equitable process for all candidates (including but not limited to people with disabilities). To make a confidential request for accommodations, please contact Jessica McKay, Department of Computer Science, Faculty of Science at recruit-admin@cs.ubc.ca. If you have any questions regarding accommodations or accessibility during the recruitment and hiring process or for more information and support, please visit UBC's Centre for Workplace Accessibility website at https://hr.ubc.ca/health-and-wellbeing/workplace- accessibility/centre-workplace-accessibility or contact the Centre at workplace.accessibility@ubc.ca.

With gratitude, we acknowledge that The University of British Columbia Faculty of Science and its departments are located on traditional, ancestral and unceded territories of First Nations Peoples and communities around the province.

UBC welcomes and encourages applications from persons with disabilities. Accommodations are available upon request for all candidates taking part in all aspects of the selection process.

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