

Quantum Information - Tier 2 Canada Research Chair

University of Ottawa

Endroit : Ontario

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The University of Ottawa invites applications for a Tier 2 Canada Research Chair in Quantum information and tenure-track faculty position in the [Department of Mathematics and Statistics](#). The University of Ottawa, host of the Joint Max-Planck-uOttawa Centre for Extreme and Quantum Photonics, has acquired an international reputation in the fields of quantum information, quantum photonics, and quantum materials. Applicants with expertise on mathematical aspects of quantum information (including, but not limited to, Quantum Algorithms, Quantum Cryptography, Quantum Complexity and/or Quantum Information Theory) will be joining an internationally renowned group of dynamic researchers, and will contribute to the successes of the overall program. Candidates are expected to establish a strong, externally funded, and collaborative research program in Quantum Information.

The [Faculty of Science](#) is one of the most research intensive science faculties in Canada and is recognized for its world-class programs and infrastructure within its five departments in the following domains: Biology, Chemistry and Biomolecular Sciences, Earth and Environmental Sciences, Mathematics and Statistics, and Physics. The [Department of Mathematics and Statistics](#), has ~ 40 faculty members. The Department is part of the [Ottawa-Carleton Institute of Mathematics and Statistics](#), the [Fields Institute](#) and the [Centre de Recherches Mathématiques](#). Notable to this position are possible collaborations via the [uOttawa-Kanata North initiative](#), the Joint Centre for Extreme Photonics (JCEP), as well as the Max Planck - uOttawa Centre for extreme Quantum Photonics.

Tier 2 Canada Research Chairs are one of Canada's premier early career recognition and recruitment programs, and are intended for exceptional emerging scholars acknowledged by their peers as having the potential to lead in their field. Tier 2 Chairs, tenable for five years and renewable once, are for exceptional emerging researchers, acknowledged by their peers as having the potential to lead in their field. For each Tier 2 Chair, the institution receives \$100,000 annually for five years, with an additional \$20,000 annual research stipend for first-term Tier 2 Chairs.

Candidates must have been an active researcher in their field for fewer than 10 years after PhD at the time of nomination. Candidates should, at a minimum, be assistant or associate professors, or possess the necessary qualifications to be appointed to these levels. Candidates who are more than 10 years from their highest degree must contact the University of Ottawa directly for questions related to their potential eligibility for a Tier 2 Chair. The institution may nominate a professor or a researcher who is more than 10 years from their highest degree at the time of nomination and has experienced legitimate career interruptions (see [acceptable justifications](#)). In such cases, the institution must submit to the Secretariat a formal justification (using the [Tier 2 Justification Screening Form](#)), explaining why the nominee is still considered to be an emerging scholar. The University recognizes the legitimate impact that leaves (e.g., parental leave, leave due to illness) can have on a candidate's record of research achievement and that these leaves will be taken into careful consideration during the assessment process. New CRC nominees are also eligible for infrastructure support from the [Canada Foundation for Innovation](#) (CFI) to help acquire state-of-the-art equipment essential to their work.

Preferential Hiring:

The University of Ottawa is committed to ensuring equity, diversity and inclusion in the scholarly and leadership environments of our students, staff, and faculty. Accordingly, we strongly encourage applications from members of the four designated groups such as Indigenous persons, visible minorities, persons with disabilities, and women, as defined in the [Employment Equity Act](#), as well as from all qualified candidates with the skills and knowledge to productively engage with equitable, diverse and inclusive communities. As part of this preferential hiring process, applications from members of the four designated groups will be prioritized and assessed first for the vacancy. Candidates who wish to qualify for preferential consideration are asked to fill the following self-identification

form: https://research.uottawa.ca/sites/research.uottawa.ca/files/crc_self-identification_questionnaire_ovpr.pdf.

The purpose of this measure is to increase the representation of members of the four designated groups in the allocation of Canada Research Chair positions.

Required qualifications and work experience: PhD or equivalent in Mathematics, Computer Science, Mathematical Physics, or a related discipline; postdoctoral experience is desirable. A demonstrated excellent research track record in quantum information. A commitment to teaching and graduate training, a strong track record in and a commitment to interdisciplinary collaborations, and the ability to obtain external research funds. Excellent communication skills in either French or English. Passive knowledge of the other official language would be an asset.

Rank and salary: Regular tenure-track academic appointment at the rank of Assistant Professor in the Faculty of Science, with a salary consistent with the collective agreement of the Association of Professors of the University of Ottawa.

Benefits: The University of Ottawa provides a complete compensation package, which includes basic group life insurance, supplementary health insurance, a pension plan, long-term disability and optional life insurance.

Application Package: Interested applicants must submit their application package as a **single PDF file** and include the following items in the order listed:

- A cover letter;
- An up-to-date curriculum vitae (please include career interruptions such as parental or sick leaves that may have impacted your record of research. These will be taken into consideration in the selection process);
- A detailed research plan/proposal (2 to 3 pages); demonstrating a strong commitment to research excellence;
- A statement of teaching interests and philosophy (1 to 2 pages); and
- The names of three people who may be contacted by the University for letters of reference which will follow the [Canada Research Chairs guidelines](#) (i.e. one arm's length and two who are not affiliated with the University of Ottawa unless they are the candidate's PhD or postdoctoral supervisor)
- Self-identification form (see Preferential Hiring section above)

Posting no.: 20029-CRC

Deadline: July 2, 2020

The selection process will begin in **July** and will continue until the position is filled. Only candidates selected for an interview will be contacted. Please send the application package to the following address or by email to: Dr. Sylvain Charbonneau, Vice-President, Research

University of Ottawa

550 Cumberland St., room 246

Ottawa, ON K1N 6N5 CANADA

rcca-coord@uOttawa.ca

If you are invited to continue the selection process, please notify us of any particular adaptive measures you might require by contacting the Office of the Vice-Provost, Faculty Relations at 613-562-5958. The Canada Research Chairs Program imposes no restrictions on nominees with regard to nationality or country of residence. Procedures to allow non-Canadian chairholders to work in Canada have been established by Employment and Social Development Canada and Immigration, Refugees and Citizenship Canada.

The University of Ottawa is justly proud of its 160-year tradition of bilingualism. Through its Official Languages and Bilingualism Institute, the University provides training to staff members and their spouses in their second official language. At the time of tenure, professors are expected to be able to function in a bilingual setting. In certain cases, professors must have the ability to teach in both official languages to be granted tenure.

Notice of Collection of Personal Information

In accordance with the Freedom of Information and Protection of Privacy Act (Ontario) and with University Policy 90, your personal information is collected under the authority of the University of Ottawa Act, 1965 and is intended to be used for the purpose of and those consistent with your employment application and the administration of your employment relationship, if established. If you have any questions regarding this collection of personal information, please contact Office of the Vice-Provost, Faculty Relations at (613) 562-5958 or by email at vra.affairesprofessorales@uottawa.ca.