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Canada Research Chair Tier II in Quantum Algorithms

Job ID: 33705

Location: Main Campus

Updated November 14, 2025

This job posting is no longer active.

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We would like to take this opportunity to acknowledge the traditional territories of the people of the Treaty 7 region in Southern Alberta. The City of Calgary is also home to Métis Nation within Alberta (Nose Hill Métis District 5 and Elbow Métis District 6).

Description

The **Faculty of Science** at the **University of Calgary** invites applications for a full-time **Canada Research Chair (CRC) Tier II** position in quantum computing in the area of **Quantum Algorithms**. The successful candidate will be appointed at the rank of **Assistant Professor**, and nominated for an NSERC CRC Tier II position, in the Department of Physics and Astronomy or the Department of Computer Science with cross appointments to related departments possible. This position has an anticipated start date of July 1, 2025 or later.

The successful candidate can join the Faculty of Science's Institute for Quantum Science and Technology (https://iqst.ucalgary.ca/) (https://iqst.ucalgary.ca/), which comprises ~20 faculty members and their research groups, and the Institute is a member of the Quantum Alberta consortium, which is a community of quantum scientists, technologists and engineers working in the Province of Alberta.

Applicants must have completed, or be near completion of, a doctoral degree in a discipline relevant to their proposed field of study in quantum and/or quantum-inspired algorithms and computational complexity. They must have a strong record of impactful research in their field of expertise and demonstrate an ability to teach at the university level. The University of Calgary adheres to the principles of the San Francisco Declaration on Research Assessment and strives to evaluate research impact holistically that explicitly considers the quality, significance, and societal impact including knowledge translation and mobilization.

The successful candidate will be able to interact positively within the diverse research environment within the Faculty of Science, and the University of Calgary, and take advantage of access to state-of-the-art core infrastructure. The candidate is expected to establish collaborative opportunities to enhance and develop either transdisciplinary or external partnerships.

Faculty members play an important role in teaching and research supervision of students in relevant undergraduate and graduate programs. The successful candidate will have plans to develop high-quality supervision or mentorship with a focus on preparing students for their desired future career. They will also be prepared to teach courses in their home department and/or related programs commensurate with their expertise and current teaching needs.

Tier II candidates are further expected to be excellent emerging world-class researchers who have demonstrated particular research creativity; have demonstrated the potential to achieve international recognition in their fields in the next five to ten years; have the potential to attract, develop and retain excellent trainees, students and future researchers; and be proposing an original, innovative research program of high quality. Tier II Chairs are tenable for five years and renewable once. Tier II Chairs are intended for emerging scholars with demonstrated potential to become outstanding and internationally-recognized researchers and leaders in their field. Candidates must have completed their PhD or equivalent, less than 10 years ago at the time of their nomination.

Candidates who are more than 10 years from having earned their highest degree and who have had career breaks, such as maternity, parental, or extended sick leave, clinical training, etc., may have their eligibility for a Tier II Chair assessed through the program's Tier II justification process. Research interruptions caused by the COVID-19 pandemic (e.g., closures) are recognized as, and may be counted as, an eligible delay (credited at twice the amount of time) beginning March 1, 2020. Please contact UCalgary's Office of Research Services for more information: ipd@ucalgary.ca. Further information about the Canada Research Chairs Program including eligibility criteria can be found on the Government of Canada's CRC website (https://www.chairs-chaires.gc.ca/program-programme/index-eng.aspx) (https://www.chairs-chaires.gc.ca/program-programme/index-eng.aspx).

Application deadline is February 10, 2025.

Interested individuals are encouraged to submit an application online via the 'Apply Now' link.

A complete application should be submitted in a single pdf, and include the following:

- Cover letter (1-2 pages) and curriculum vitae, including the name and contact information of three referees
- Statement of Research Interests and Plans (1-3 pages)
- Statement of Teaching Philosophy (1-2 pages)
- Statement describing the candidate's contributions, or potential contributions to, equity, diversity, and inclusion (EDI) along with their ability to work with a culturally diverse and international student, staff, and faculty body (up to 1 page)

Questions and applications can be addressed to:
Pierre Kennepohl, Associate Dean for Community and Innovation, Faculty of Science
via sci.ad.admin@ucalgary.ca (mailto:sci.ad.admin@ucalgary.ca)

In support of University of Calgary's promotion of a diverse workforce, the Faculty of Science is committed to showing leadership in diversity, equity and inclusion and nurturing a healthy and respectful workplace environment for all.

The University of Calgary has launched an institution-wide Indigenous Strategy (https://www.ucalgary.ca/indigenous-strategy/) committing to creating a rich, vibrant, and culturally competent campus that welcomes and supports Indigenous Peoples, encourages Indigenous community partnerships, is inclusive of Indigenous perspectives in all that we do.

As an equitable and inclusive employer, the University of Calgary recognizes that a diverse staff/faculty benefits and enriches the work, learning and research experiences of the entire campus and greater community. We are committed to removing barriers that have been historically encountered by some people in our society. We strive to recruit individuals who will further enhance our diversity and will support their academic and professional success while they are here. In particular, we encourage members of the designated groups (women, Indigenous peoples, persons with disabilities, members of visible/racialized minorities, and diverse sexual orientation and gender identities) to apply. To ensure a fair and equitable assessment, we offer accommodation at any stage during the recruitment process to applicants with disabilities. Questions regarding [diversity] EDI at UCalgary can be sent to the Office of Equity, Diversity and Inclusion (https://www.ucalgary.ca/equity-diversity-inclusion)(equity@ucalgary.ca (mailto:equity@ucalgary.ca)) and requests for accommodations can be sent to Human Resources (hrhire@ucalgary.ca (mailto:hrhire@ucalgary.ca)).

All qualified candidates are encouraged to apply; however Canadians and permanent residents will be given priority. In this connection, at the time of your application, please answer the following question: Are you a Canadian citizen or a permanent resident of Canada? (Yes/No)

The University of Calgary recognizes that candidates have varying career paths and that career interruptions can be part of an excellent academic record. Candidates are encouraged but not required to provide any relevant information about their experience and/or career interruptions to allow for a fair assessment of their application. Selection committees have been instructed to give careful consideration to, and be sensitive to the impact of career interruptions, when assessing the candidate's research productivity.

For a listing of all academic opportunities at the University of Calgary, view our **Academic Careers website** (http://careers.ucalgary.ca/pages/academic-careers). For more information about the **Faculty of Science**, click *here* (https://science.ucalgary.ca/).

About the Faculty of Science
The Faculty of Science has been catalyzing change and inspiring discovery, creativity, and innovation for over 50 years. Our strategic direction integrates current and emerging strengths with areas targeted for future growth and investment. Our strategic priorities, goals, and values guide our mission to advance research, scholarship, and innovation, create authentic learning experiences, and inspire careers of the future. We drive transformational change, and build a strong community through teaching, learning, research, scholarship, and collaborative partnerships. We do this work to generate curiosity-driven discovery and contribute solutions to society¿s grand challenges. For more information, visit https://careers.ucalgary.ca (https://careers.ucalgary.ca)

About the University of Calgary

UCalgary is Canada's entrepreneurial university, located in Canada's most enterprising city. It is a top research university and one of the highest-ranked universities of its age. Founded in 1966, its 36,000 students experience an innovative learning environment, made rich by research, hands-on experiences and entrepreneurial thinking. It is Canada's leader in the creation of start-ups (https://ucalgary.ca/news/ucalgary-top-startup-creator-amongst-research-institutions-canada). Start something (https://www.ucalgary.ca/startsomething) today at the University of Calgary. For more information, visit ucalgary.ca (https://www.ucalgary.ca/).

About Calgary, Alberta

Calgary is one of the world's cleanest cities and has been named one of the world's most livable cities for years. Calgary is a city of leaders - in business, community, philanthropy and volunteerism. Calgarians benefit from a growing number of world-class dining and cultural events and enjoy more days of sunshine per year than any other major Canadian city. Calgary is less than an hour's drive from the majestic Rocky Mountains and boasts the most extensive urban pathway and bikeway network in North America.

Posting Date: January 6, 2025

Closing Date: February 10, 2025

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