

## Assistant Professor – Quantum Information – University of Waterloo

Applications are invited for one tenure-track faculty position at the rank of Assistant Professor and in special cases Associate or Full Professor, at the Institute for Quantum Computing (IQC). This position can be held in any of the departments and schools connected to IQC: Applied Mathematics, Pure Mathematics, Combinatorics and Optimization, Electrical and Computer Engineering, Chemistry, Physics & Astronomy, and the Cheriton School of Computer Science. The anticipated start date will be September 1, 2024.

A PhD and significant evidence of excellence in research in quantum information science and technology and the potential for effective teaching are required. Responsibilities include the supervision of graduate students and teaching at the undergraduate and graduate levels. Based on qualifications, an annual salary range of \$100,000 to \$155,000 will be considered. Negotiations beyond this annual salary range will be considered for exceptionally qualified candidates. The search is open to all areas of quantum information that connect with the goals and ongoing research at IQC. We are especially interested in candidates working in:

- Quantum error correction, fault tolerance, and related areas,
- Theory connected to experiment, and
- Experimental Optical Quantum Communication.

However, excellent candidates in all areas, both theory and experiment, will be fully considered. Demonstrated experience connecting theory and experiment is a plus, as is an innovative mindset towards quantum technologies.

IQC is a collaborative research institute at the University of Waterloo focused on quantum information science and technology, ranging from the theory of quantum information to practical applications. At present, IQC has a complement of 30 faculty members, 47 postdoctoral fellows and 200 graduate students from the Faculties of Engineering, Mathematics and Science. Membership in IQC is renewable and comes with research space, a teaching reduction of one course per year, and a stipend. Information about research at IQC can be found at <https://uwaterloo.ca/institute-for-quantum-computing/research> and <https://tqt.uwaterloo.ca/>. Full consideration for these positions is assured only for applications received by December 1, 2023. Interested individuals should upload their application via the faculty application form at <https://uwaterloo.ca/institute-for-quantum-computing/available-positions> and arrange for three referees to upload letters of reference.

The University of Waterloo acknowledges that much of our work takes place on the traditional territory of the Neutral, Anishinaabeg and Haudenosaunee peoples. Our main campus is situated on the Haldimand Tract, the land granted to the Six Nations that includes six miles on each side of the Grand River. Our active work toward reconciliation takes place across our

campuses through research, learning, teaching, and community building, and is centralized within our [Indigenous Initiatives Office \(https://uwaterloo.ca/human-rights-equity-inclusion/indigenoust initiatives\)](https://uwaterloo.ca/human-rights-equity-inclusion/indigenoust initiatives).

*Improving the representation participation and engagement of equity deserving groups and First Nations, Métis and Inuit within our community is a key object of Waterloo's strategic plan 2020-2025.*

The University values the diverse and intersectional identities of its students, faculty, and staff. The University regards equity and diversity as an integral part of academic excellence and is committed to accessibility for all employees. The University of Waterloo seeks applicants who embrace our values of equity, anti-racism and inclusion. As such, we encourage applications from candidates who have been historically disadvantaged and marginalized, including applicants who identify as First Nations, Métis and/or Inuit/Inuk, Black, racialized, a person with a disability, a woman and/or 2SLGBTQ+.

The University of Waterloo is committed to accessibility for persons with disabilities. If you have any application, interview or workplace accommodation requests, please contact [IQC Director at [iqc-dtr@uwaterloo.ca](mailto:iqc-dtr@uwaterloo.ca)].

If you have any questions regarding the position, the application process, assessment process, or eligibility, please contact [department contact name and contact information].

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

-----Three reasons to apply: <https://uwaterloo.ca/faculty-association/why-waterloo>.