



# University of Toronto Postdoctoral Fellowship in Quantum Science and Technologies 2023-2024

The Centre for Quantum Information and Quantum Control (CQIQ) invites applications from outstanding candidates for its Prize Postdoctoral Fellowship. The program provides funding for the very best postdoctoral applicants, both nationally and internationally, who will contribute to University of Toronto's program in quantum science and technology.

We invite applications on different branches of quantum science and technologies, experiment and theory, including but not limited to: quantum hardware and software, quantum information and communication, quantum sensing and imaging, quantum foundations, dynamics, control, and simulations.

**Participating departments at UofT:** ECE, MSE, Physics, Chemistry, CS, Math; a full list of CQIQ faculty is included here: <https://cqiqc.physics.utoronto.ca/people/>.

**Total Award:** \$75,000 CAD/year renewable annually for up to three years provisional on the availability of funds and satisfactory progress (\$50,000 provided by CQIQ; \$25,000 plus maintenance and support costs provided by supervisor).

**Eligibility and Qualifications:** Canadian citizens and permanent residents *and* foreign citizens are eligible to apply. Applicants must have fulfilled all degree requirements for a Doctoral degree before the start-date of their award. Candidates who received their Doctorates in the past four years are strongly encouraged (special consideration of career breaks due to family commitments, health issues, mandatory military service or other disruptions in your country of residence will be made: please include a justification if applicable). **The award may only be held at the University of Toronto under the supervision of CQIQ's faculty.** Holders of current tenure-stream faculty positions or previous holders of the CQIQ Postdoctoral Fellowship are not eligible to apply.

Only in special circumstances will the fellowship be awarded to an applicant from the University of Toronto who is planning to stay within the same research group where they completed their PhD degree: please include a justification if applicable.

**Important Dates:** applications due on **Oct. 30, 2022**; Awards to be taken up: before 1<sup>st</sup> September 2023.

**Application Procedure:** All materials to be submitted by email to [cqiqc@physics.utoronto.ca](mailto:cqiqc@physics.utoronto.ca)

1. Approach one (or more) current CQIQ faculty member(s) (either Member or Affiliate), who is/are willing to be you supervisor and provide matching funds for your project. "Bridging

appointments” involving two or more research groups are particularly encouraged; a full list of CQIQC faculty is here: <https://cqiqc.physics.utoronto.ca/people/>.

2. Submit the following in pdf format, with the email subject line ‘CQIQC Postdoc Application’:

- Curriculum Vitae, including all degrees (with dates) and publications.
- one-page research proposal (pages should be 8 ½" x 11"; single-spaced with no more than six lines of type per inch and with minimum ¾" margin; font should be 12pt Times New Roman).
- (if applicable) justification for special considerations (one page maximum), as mentioned in the eligibility requirements above.

3. Request that your CQIQC supervisor(s) submit a letter of support, with an endorsement of your proposal and a commitment to supervise you and to provide the matching funds. The letter should be submitted to the above address, with “CQIQC Postdoc letter of support” in the subject line. Applications without such a letter of support will not be considered.

4. Request up to two letters of recommendation (not from your intended supervisor(s)) be sent to the above address with “CQIQC Postdoc letter of recommendation” in the subject line. Applications without any letters of recommendation will not be considered; if more than two letters are received, we will consider first two unless indicated otherwise.