



April 2, 2019

We seek motivated postdoctoral researchers to be part of the experimental effort in the Engineered Quantum System Laboratory ([EQSL](#)) at the Institute for Quantum Computing. The research work will be broadly in the field of superconducting quantum circuits, with projects aimed towards the generation and distribution of entanglement, novel physics in microwave quantum optics and analog quantum simulation. In all of the projects, we seek to advance the state of the art in quantum technologies while also more deeply understanding the fundamental physics that enables these technologies. These projects are part of the new [Transformative Quantum Technologies](#) program at IQC, a \$140 million program created to bridge the gap between quantum science and technology.

EQSL has dedicated equipment for the experiments as well as access to all nanofabrication tools necessary through the [Quantum NanoFab](#). The NanoFab is part of the 285,000 square foot [Quantum-Nano Center](#), constructed to hold IQC and the Waterloo Institute of Nanotechnology.

[IQC](#), located at the University of Waterloo outside of Toronto, provides a vibrant research environment with interdisciplinary researchers coming from physics, engineering, chemistry, math and computer science. The Institute is dedicated to the advancement and development of quantum information science and quantum technology. The environment is also enhanced by our close association with our sister institution, the [Perimeter Institute](#) for Theoretical Physics.

Positions are available to start immediately, but the actually starting time is negotiable. The positions will be 1 + 1 or 2 years, depending on experience.

The successful applicant should have (or be nearing completion of) a PhD in a field of physics or closely related discipline. Candidates should have experience in at least some of the following areas: superconductivity, mesoscopic physics, quantum optics, nanofabrication, cryogenics, microwave technology. A high level of proficiency in written and spoken English is also a requirement.

Interested candidates should send their CV to Prof. Christopher Wilson at [chris.wilson@uwaterloo.ca](mailto:chris.wilson@uwaterloo.ca).

