

Postdoctoral positions in quantum nanophotonics and optomechanics

The [Quantum Nanophotonics Lab](#) of Dr. Paul Barclay at the [Institute for Quantum Science and Technology](#), the [National Institute for Nanotechnology](#), and the University of Calgary is inviting applications for postdoctoral scholar positions in quantum nanophotonics and optomechanics. Successful applicants will lead experiments utilizing nanophotonic and nanomechanical devices to manipulate quantum systems, develop quantum light sources, and demonstrate nanoscale sensors. Scholars will have access to nanofabrication facilities at the National Institute for Nanotechnology, as well as state of the art nanophotonic and quantum optic measurement and characterization tools.

Recruitment is on-going for two positions:

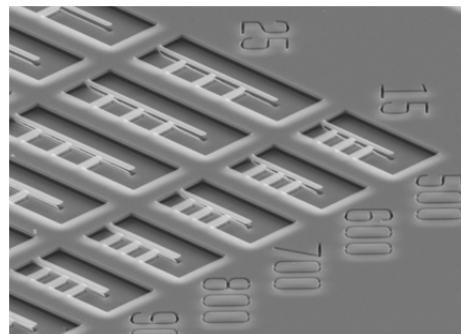
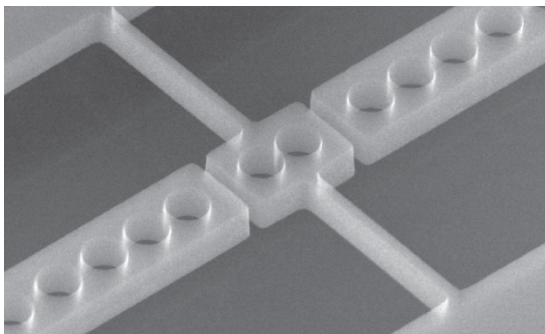
Eyes High Postdoctoral Scholar: This new program at the University of Calgary targets future research leaders. Generous financial and career development support is available for an exceptional researcher to lead experiments in the Quantum Nanophotonics Lab. Specific research targets will be identified in consultation with the scholar; on-going research directions include optomechanics with diamond NV centres, nanocavity based quantum light sources, and nanocavity based sensors for nanomagnetism.

National Institute for Nanotechnology Scholar: This position is targeted towards researchers with a strong interest and aptitude for nanofabrication of photonic devices. The successful applicant will be based at the National Institute for Nanotechnology (NINT), and will be take a leadership role at NINT in the development and experimental demonstration of nanophotonic devices for sensing and quantum information processing applications.

Pre-application inquiries should be directed to Dr. Paul Barclay (pbarclay@ucalgary.ca).

Research activities in the Quantum Nanophotonics Lab are described at barclaylab.ucalgary.ca

Please submit a CV, including a list of publications, a cover letter describing your research interests, and contact information for two references to pbarclay@ucalgary.ca. Applications are due by **August 31, 2014**.



Nanophotonic optomechanical devices fabricated from silicon (left) and single crystal diamond hosting nitrogen vacancy (NV) centres (right).