



UNIVERSITÉ DE MONCTON
EDMUNDSTON MONCTON SHIPPAGAN



Quantum Lab Moncton (QLM) is seeking applicants for the position of

Postdoctoral researcher in experimental quantum optics

GENERAL INFORMATION : This position is for a postdoctoral researcher at Quantum Lab Moncton under the direction of Dr. Deny Hamel. The successful applicant will join our experimental quantum optics group to work on novel methods of manipulating entangled photon states for quantum technologies. This role is part of a three-year project exploring applications of photon precertification for quantum information.

RESPONSIBILITIES : The successful applicant is expected to :

- Perform quantum optics research as part of a collaborative research group.
- Write manuscripts for scientific publications.
- Disseminate research results at national and international scientific conferences.
- Assist with supervision of graduate and undergraduate students.

QUALIFICATIONS : The successful applicant will hold a PhD in physics, optics, quantum information or a closely related field. The candidate should have the ability to perform original research in quantum information, optics, or photonics. Experience in a quantum optics laboratory is a significant asset. Candidates must be able to work both independently and within a collaborative environment. Excellent communications skills and the ability to keep clean records are essential.

Quantum Lab Moncton and the Université de Moncton are committed to employment equity and encourages applications from all qualified individuals, women and men and non-gendered, including Aboriginal people, people with disabilities and members of visible minorities.

ANTICIPATED START DATE : October 1, 2023.

SALARY : Starting at \$50,000/year + benefits, according to experience.

DURATION : The employment contract is for one year and is renewable annually with funding secured for three years.

HOW TO APPLY : Interested applicants are invited to submit their CV, including a list of publications and electronic contact details of two possible references, and a cover letter stating their research interest to postdoc@quantumlabmoncton.ca. The deadline for applications is **September 1, 2023**. Later applications will be considered if the position has not yet been filled.

ABOUT US : Quantum Lab Moncton is led by Dr. Deny Hamel, Canada Research Chair in Optics and Quantum Information. It is based at the Université de Moncton, which is located in Moncton, New Brunswick, Canada. Our work is focused on using nonlinear optics to enable quantum information technologies. More information is available on the group's website at <https://quantumlabmoncton.ca>.