

PhD and MSc students in Photonics University of Calgary

Direct Link: https://www.AcademicKeys.com/r?job=262307

Downloaded On: Oct. 29, 2025 3:12am Posted Sep. 10, 2025, set to expire Nov. 25, 2025

Job Title PhD and MSc students in Photonics

Department Electrical and Software Engineering

https://www.ucalgary.ca/future-

students/undergraduate/explore-programs/electrical-

engineering

Institution University of Calgary

Calgary, Alberta

Date Posted Sep. 10, 2025

Application Deadline Nov. 25, 2025

Position Start Date Jan 2026 for domestic students

Job Categories Graduate Student

Academic Field(s) Optics & Optical Engineering

Engineering Physics

Electrical and/or Electronics

Job Website https://profiles.ucalgary.ca/mostafa-khalil

Apply By Email

Job Description

The Photonics Lab at the University of Calgary is looking for motivated graduate students to pursue MSc or PhD programs in the field of photonics. Our group focuses on the design and development of advanced photonic devices and systems for applications in secure communications, quantum technologies, and next-generation optical networks.

Research areas include:



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- 1 Integrated photonics (Si, SiN, TFLN, BaTiO3 platforms)
- 2 Optical frequency combs and quantum microcombs
- 3 Secure and quantum-enabled networks, quantum key distribution (QKD)
- 4 Entangled photon pair generation
- 5 Quantum sensing

Requirements:

- 1 Bachelor degree in Electrical Engineering, Physics, or related field
- 2 Strong background in photonics, optics, and quantum technologies
- 3 Experience with simulation tools (e.g., COMSOL Multiphysics, Lumerical, MATLAB, Python)
- 4 Hands-on experience incleanroom fabrication or nanophotonic device testing is an asset
- 5 Excellent communication and teamwork skills

How to Apply:

Interested candidates should send the following to the email address on the website:

- 1 A brief cover letter outlining research interests and background
- 2 Curriculum Vitae (CV)
- 3 Academic transcripts (unofficial copies are acceptable)
- 4 Contact information for 2-3 references



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Applications will be reviewed on a rolling basis until all positions are filled. Please use email subject as "Prospective [MSc/PhD] Student - [Your Name]" so that it is easier to navigate and filter your application. Otherwise your email might get off the radar.

Scholarships:

Prospective students with a fellowship or funding of their own should indicate that when contacting me. These are some of the funding/scholarship opportunities available at the University of Calgary.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact Mostafa Khalil

Electrical and Software Engineering

University of Calgary

Calgary, AB

Canada