

PhD and MSc students in Photonics
University of Calgary

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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 in **cleanroom 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