

PhD and MSc opportunities in Permafrost Engineering & Geoscience at the University of Calgary, Calgary, Alberta, Canada

Dr. Jocelyn Hayley and her group have multiple research openings at the University of Calgary for PhD & MSc projects starting in 2025. We have some exciting projects that need motivated students with a background in geotechnical engineering, geological engineering, engineering geology, geology, or geophysics to join our dynamic group.

Details of the project are as follows:

- 2 PhD students (1 geotechnical/geological engineering, 1 geophysics) to work on a collaborative WSP/uCalgary project focusing on warm permafrost in mine reclamation in Northwest Territories Canada. These positions are funded by Mitacs Accelerate (mitacs.ca) and offer the unique opportunities to spend time with WSP staff while performing the PhD research. The program involves field and numerical work and is based out of Calgary at the University of Calgary with travel to Yellowknife. The two students will work together on this 4-year project. Preference will be given to students with prior industry experience. Start date must be in 2025.
- 1 PhD and 1 MSc student to join the NSERC CREATE LEAP program (www.permafrost-leap.ca) and focus on geotechnical aspects of permafrost thaw and its impact on northern infrastructure. This unique program includes being part of a year-long online course taught by permafrost science and engineering experts across Canada and a northern field school.
- 1 PhD and 1 MSc student to focus on community-based monitoring of permafrost thaw and its impact on infrastructure. With backgrounds from the geosciences or engineering, these students need to have a strong desire to work with remote and Indigenous partners on co-developing hands-on thaw monitoring programs. Strong communication skills, curiosity and empathy are required for these positions.

In our group we highly value diversity and creating an environment of inclusion. We are looking for students who are open, curious, independent, and value respect and kindness, while maintaining outstanding academic standards.

We invite applications to be submitted to jhayley@ucalgary.ca. You MUST have “Permafrost Student” in the subject line of the email. Please provide a brief description of why you are interested, along with a c.v., and relevant transcripts (can be unofficial).