

Graduate student opportunities

Permafrost thaw and land-water ocean connections in Canada's north

I am currently recruiting MSc and PhD candidates for an ongoing project examining the effects of permafrost thaw on carbon, nutrient, and toxin cycles in the Canadian north. The successful candidate will join a team that has worked for several years in the western Canadian Arctic to understand how massive permafrost thaw propagates through stream networks, and ultimately affects regional and global biogeochemical cycles. This work is part of a collaborative effort that includes scientists at the University of Alberta (led by [Dr. Suzanne Tank](#)), other Canadian institutions, and territorial government institutions.



I anticipate several focal projects as part of these efforts, including:

- Examining how materials released by permafrost thaw move through aquatic networks, and key processing points along the aquatic continuum
- Specific examination of the effect of thaw on downstream nutrient cycles and nutrient uptake
- Specific examination of how the transport of toxins, such as mercury, is enhanced as a result of thawing permafrost

Positions will be based in the [Department of Biological Sciences](#) at the [University of Alberta](#), with an anticipated start date for initial applications between January and September of 2024. The University of Alberta is one of Canada's top research institutions, and the Department of Biological Sciences offers a competitive salary and research support package to all of its graduate trainees.

To apply, please send an email to suzanne.tank@ualberta.ca, with the subject line "Studentship in Arctic biogeochemistry". Applicants should include a statement of interest, a CV, and a copy of transcripts (unofficial transcripts are acceptable). **Recruitment for these positions will be ongoing.** However, please note that the cutoff date for January 2024 admissions is July 31, 2023.

I look forward to hearing from you!

