

PhD position (1) in Permafrost Science

at the Living with Lakes Research Centre, Laurentian University

PhD position: Thaw pond initiation and evolution pathways

Expected start date: September 2019 (or as soon as possible)

Supervisory team: Dr. Pascale Roy-Leveillee, Dr. Merritt Turetsky, Dr. Trevor Lantz, Dr. Peter Morse



This position will elucidate controls on 1) the initiation of thaw lakes and ponds, 2) variation in rates of expansion, and 3) pathways of stabilization and permafrost recovery post stabilization. Field work will take place in thermokarst-affected lowlands between the Blackstone Uplands (YT) and Tuktoyuktuk (NWT). The position will develop predictive models based on the interacting effects of paleogeography (deposits and ice), climate, topography, snow cover, and vegetation growth within thaw ponds. This work will support the development of a lowland thermokarst hazard assessment framework to support the effective evaluation and management of risks associated with signs of thermokarst initiation near existing or planned infrastructure, traditional travel routes and areas of cultural significance, sensitive wildlife habitat, etc.

Work team and work environment: This position is part of [PermafrostNet](#) and will collaborate with a set of expert research groups outside of Laurentian University, via the network and the members of the supervisory teams. At Laurentian this PhD will be within the Cooperative Freshwater Ecology Unit and the [Permafrost Research Laboratory](#). It will be located within the award winning [Living with Lakes Research Centre](#), on the edge of Ramsey Lake in [Sudbury](#).

Funding: Competitive NSERC level remuneration, guaranteed GTA (>75% average), and access to several local scholarships are available.



To submit an application: Send Dr. Pascale Roy-Leveillee (proyleveillee@laurentian.ca) your letter of interest, CV, copy of transcript(s), and contact information for 3 references.

Applications will be reviewed as they are received. The position will remain open until filled. We thank all applicants for their interest, however, only those individuals selected for an interview will be contacted.