

MSc position (2) in Permafrost Science

at the Living with Lakes Research Centre, Laurentian University

MSc position: Thaw-related landscape change in Weenusk Traditional Territory

Expected start date: September 2022 (flexible)

Supervisory team: Dr. Pascale Roy-Leveillee, Dr. Maara Packalen, Dr. Trevor Lantz, Dr. Peter Pulsifier



In Weenusk First Nation's traditional territory, near the Hudson Bay coast, local residents report widespread signs of permafrost degradation: degrading palsas and peat plateaus, widespread ground wetness, and changes in vegetation cover. These changes affect local access to country food by impeding overland travel and modifying the habitat of species key for local food security. This MSc will work in collaboration with community members and use remotely-sensed imagery and ground observations to map changes in moisture, vegetation, and extent of palsas and peat plateaus using object-based analysis. This work will support on-going community-based monitoring initiatives by creating maps of changing conditions at the territory scale that can be overlain with maps of trails, family areas, and sites of cultural significance (for more info on the project contact proyleveillee@laurentian.ca).

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.