



Postdoctoral Position

Impact of anthropogenic disturbances in the role and functioning of boreal lake ecosystems

Project summary:

Freshwater ecosystems cover up to 30% of the area occupied by the global boreal forest biome. They are closely connected to their forested surroundings, forming complex physicochemical, biological, and ecological interactions. As a result, the functioning and health of these aquatic ecosystems can be disrupted by both terrestrial and aquatic disturbances, many of which impacts remain poorly understood. With increasing anthropogenic pressure, these disturbances are expected to intensify in their effects.

In boreal lakes, forest logging, mining activities, and the introduction of invasive species represent significant challenges.

The goal of this postdoctoral project is to:

- i) assess the potential of invasive species to spread within the boreal biome (using *Bythotrephes* as a model species); and
- ii) evaluate the impact of forest logging and mining activities on key species in boreal lakes.

The relative importance of research questions can be adapted to the candidate's interests. This research will provide essential information to support the development of an updated and better-adapted management plan for boreal lakes in the face of emerging threats.

Start date: Autumn 2025

Duration : 1 year

Financial support: \$55,000 for 1 year

Location:

The postdoctoral researcher will be based at GREMA (<https://www.uqat.ca/recherche/grema/>) within the Forest Research Institute (IRF) (<https://www.uqat.ca/programmes/irf/>) on the Amos campus of the Université du Québec en Abitibi-Témiscamingue (Quebec, Canada). The IRF is dynamic, multicultural and international research group that provides a high-quality environment for students to develop their research, with 12 professors and more than 60 graduate students working on a wide range of topics such as forest and aquatic ecology, genetics, biodiversity, wetland ecology and sustainable forest management. The members of Grosbois' lab also benefit from professional development resources and opportunities (scholarships, participation in conferences, workshops) offered by the Interuniversity Group of Research in Limnology (GRIL). In addition, the student will be a member of the cold forest - international research group (<https://forets-froides.org/>). As part of this project, the postdoctoral researcher will also have the option of completing an international internship funded in Europe.





Supervision and collaborators:

The postdoctoral researcher will be supervised by Guillaume Grosbois (UQAT). Collaborators of the projects will include other professors at UQAT and other national and international universities as well as partners such as the Quebec Environment ministry and the MRC-Abitibi.

Required profile:

- **Education:** A good or excellent academic record. PhD degree in ecology or environmental sciences with an interest in aquatic ecosystems, in disturbance ecology and/or invasive species.
- **Requirements:** A valid driver's license, the ability to work in a multidisciplinary team. Teamwork capacity. Skills in statistical analysis and scientific communication will be considered in the selection process. We are looking for a dynamic, autonomous, responsible and motivated person. The applicant must be systematic and accurate, in combination with a curious and critical mindset, be good at cooperation yet also be capable of working independently. The candidate must be proficient in spoken and written English. French language skills are considered an advantage.
- **Equity, Diversity, and Inclusion (EDI):** Priority will be given to candidates from under-represented groups (Aboriginals, ethnic and visible minorities, LGTBI, women).

To apply: Send an email including a curriculum vitae, a cover letter, an academic transcript and the names of two referees to guillaume.grosbois@uqat.ca.

Interested candidates must send their application **before August 1st 2025**





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