MSc in Forest Hydrology – Physical Geography

We are seeking a highly motivated MSc student to be part of the forest hydrology research team at Turkey Lakes Watershed. The MSc will be based at Trent University - Hillslope Ecohydrology Research Lab in Peterborough, Ontario, Canada, with fieldwork and data collection at Turkey Lakes Watershed, Ontario. The overarching goal of this research project is to develop a process understanding of the mechanisms that drive patterns of tree water use and its connectivity with stream water sources. Our ongoing project is funded by NSERC and the Canadian Forest Service, Great Lakes Forest Research Centre.

The position

This is a full-time 2-year MSc position. The student will focus on monitoring ecohydrological fluxes and storage at Turkey Lakes Watersheds to advance understanding of the frequency of the connectivity between transpiration source water and streamflow across different hillslopes. There is potential to expand to other aspects of hillslope hydrology and watershed science, including tracer modeling.

The MSc student will be co-supervised by Drs. Magali Nehemy (Trent University) and Jason Leach (Canadian Forest Service), working with an interdisciplinary team of researchers from the Great Lakes Forest Research Centre, as well as other collaborators outside academia. The student will gain skills related to instrumentation and ecohydrological monitoring, data analysis, and management. There is support for international traveling to attend conferences. Expected starting date: January 2024 or September 2024. Join us!

Eligibility

- Applicants must have (or expect to soon complete) a degree in earth/environmental sciences, water science, forest engineering, geography, civil/environmental engineering, or a related field.
- Must meet the Environmental & Life Sciences Graduate Program (EnLS) (https://www.trentu.ca/els/) eligibility requirements.
- Ability to work in a collaborative manner with team members.
- Willingness to participate in fieldwork in all weather conditions at Turkey Lakes Watersheds (near Sault Ste. Marie, Ontario)

Preference will be given to candidates who demonstrate strong quantitative skills and previous fieldwork experience.

To Apply

Interested candidates should submit the following package in a single PDF file via e-mail to Dr. Magali Nehemy (mnehemy@trentu.ca) and Dr. Jason Leach (jason.leach@nrcan-rncan.gc.ca) with the subject line "*MSc Forest Hydrology Application*".

Package:

1. A cover letter highlighting relevant experience, motivation for applying to the position, and research interests.

2. A curriculum vitae.
3. Unofficial transcript.
3. Names and contact information for two referees.

If you have any questions regarding the application process and eligibility please contact us.

Closing date

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

Equity, Diversity and Inclusion

We invite and encourage applications from all qualified individuals, and welcome applications from candidates who identify as Indigenous, racialized, having disabilities, and from persons of any sexual identities and gender identities.

About Trent University

Trent University is one of Canada's top universities, recognized for its research and innovation, particularly within the liberal arts and sciences. Research is central to our mission as we strive to contribute to research at a local, national and international level. With numerous partnerships from government, other universities, industries and communities around the world, Trent's researchers continually advance the knowledge, technologies and services of their disciplines. Trent University respectfully acknowledges it is located on the treaty and traditional territory of the Mississauga Anishinaabeg. We offer our gratitude to First Peoples for their care for, and teachings about, our earth and our relations. May we honour those teachings.