Postdoc position in high-impact winter weather events

Title: Winter weather events impacting Hydro-Québec power network

The project focuses on winter precipitation types during high-impact events that could cause power outages in Québec, Canada. The candidate will conduct high resolution simulations and develop severity indices for winter weather to better anticipate possible power outages. The results will allow to optimize the deployment of Hydro-Québec's field teams and to restore service as quickly as possible. This postdoc position is a collaboration between the Université du Québec à Montréal (UQAM) and Hydro-Québec.

Work Environment

- Centre ESCER et le Département des sciences de la Terre et de l'atmosphère, UQAM, Montréal, Canada.
- Possibility to be located part-time at the Hydro-Québec research center
- Working remotely is possible
- Dynamic and bilingual (French and English) research group

Starting date, duration and salary

- As soon as possible
- Duration of 6 months, with the possibility to extend
- Salary follows the UQAM postdoc union agreement

Skills and eligibility

- A PhD in atmospheric sciences or related field.
- Ability to manipulate large databases, preferably from numerical weather forecasts or climate models, and to do teamwork.
- Excellent knowledge of the UNIX environment, Python, Matlab, or R programming language. Some experience using Fortran and high-performance computing is also needed.
- Experience in publishing scientific articles in international peer review journals
- Some knowledge in cloud and precipitation microphysics is preferable.
- Have not been funded by more than 9 Mitacs postdoc internships.

Interested? Send a CV before 1 October 2025 to Julie Thériault: theriault.julie@uqam.ca