Université de Montréal

Faculté des Arts et des Sciences
Département de géographie

Doctoral Student in Climate Analyses of Surface Wind Velocity or Cloud Dynamics

Job Description

The Laboratoire d'érosion éolienne (LÉÉ), in the Department of Geography at University of Montreal, is currently seeking to attract PhD-level students to begin a research project on historical and future wind climatology or cloud climatology for the region of the Quebec province in Canada. The successful candidate will have the opportunity to conduct interdisciplinary research on topics such as direct and indirect climate-pollution interactions as well as the development of high-resolution climate models. The project is part of a larger study to understand the impacts of climate change on air quality in Quebec.

The position is fully funded for up to four years. The PhD program within the Department of Geography constituents required and optional coursework, a comprehensive examination, proposal defense, and final thesis defense, envisaged to be completed within a four-year period. Additional funding opportunities to cover research visits in other laboratories, conference and workshop involvement, and teaching experience are provided.

University of Montreal ranks amongst Canada's top three research universities and living in the city of Montreal has many academic, financial, and cultural advantages, including the presence of four major universities in the city, a relatively low cost of living, as well as a great diversity of communities in the city. This position will be based at the new Campus MIL, an easily accessible and LEED ND certified building.

Required Job Qualifications

- MSc degree in atmospheric science, geography, chemistry, physics or a closely related field, from an accredited institution in a relevant field at the time of appointment;
- Experience in climate and weather analyses based on observational surface or remotely sensed data, reanalysis and climate model outputs;
- Excellent knowledge and experience in scientific programming for the access and the processing of large volumes of climate data, as well as the development, production, visualization and transfer of climate information to non-climate science users;
- A strong motivation to contribute to interdisciplinary research;
- Demonstrated proficiency in oral and written English.

Preferred Qualifications

- Analysis tools in Python and Matlab, in the UNIX/Linux environment;
- Ability to work in a team environment;
- Ability to work independently and take relevant initiatives;
- Ability to multi-task with partners having diverse profiles in a climate services approach;
- French proficiency is desirable but not required.

Application

Applicants should send a CV, course transcripts, and a list of up to three references to Dr. James King (js.king@umontreal.ca). Priority consideration is for applications received on or before March 31, 2021. The student will begin classes in September 2021.

The University of Montreal and LÉÉ are strongly committed to fostering diversity within their community as a source of excellence, cultural enrichment, and social strength. We welcome those who would contribute to further diversification including, but not limited to women; visible minorities; First Nations, Inuit and Métis peoples; persons with disabilities; and persons of any sexual orientation or gender identity and expressions.

C.P. 6128, succursale Centre-ville
Montréal QC H3C 3J7

Téléphone : 514-343-6111
Poste : 29923

js.king@umontreal.ca
www.umontreal.ca