

## Postdoctoral fellowship in land surface modelling (Montreal, QC, Canada)

We are looking for a highly motivated individual for a PDF position devoted to plant hydraulics modelling. The position is based at the Université de Montréal [UdeM] (Prof. Oliver Sonnentag) as part of a Canadian Space Agency (CSA) funded project with the Université du Québec à Trois-Rivières (Prof. Alexandre Roy) and Environment and Climate Change Canada [ECCC] (Dr. Joe Melton), in collaboration with other university and government researchers. The project will **enhance the process-based simulation of boreal forest plant hydraulic functioning in the Canadian Land Surface Scheme including Biogeochemical Cycles (CLASSIC; [https://cccma.gitlab.io/classic\\_pages/](https://cccma.gitlab.io/classic_pages/)), a terrestrial ecosystem model, with the use of remotely sensed passive microwave vegetation optical depth**. The position is co-supervised by Drs. Joe Melton and Oliver Sonnentag with input from the entire team.

While previous experience with land surface or terrestrial ecosystem models is highly desirable, more so the applicant should have the ability to rapidly gain an understanding of physical and biogeochemical processes from the existing scientific literature, and be able to develop mathematical parameterizations for implementation in a modelling framework. Applicants must have a PhD in a field related to terrestrial physics or ecosystem processes; peer-reviewed publications; and enthusiasm and drive for both independent and team-based research.

The position is available for three years (\$55,000 CAD/year plus benefits). More details can be found here: <http://www.serum-afpc.com/postdocs/>

Please email application packages consisting of 1) cover letter, 2) curriculum vitae, 3) an English writing sample (ideally a publication), 4) copies of academic credentials, and 5) names and contact information of at least two referees to: [joe.melton@ec.gc.ca](mailto:joe.melton@ec.gc.ca), and [oliver.sonnentag@umontreal.ca](mailto:oliver.sonnentag@umontreal.ca)

The review of applications will commence immediately until the position is filled. Receipt of your application will be confirmed by email but only applicants selected for an interview will be contacted. Once contacted for an interview, please let us know if you require an accommodation, and we will endeavor to make arrangements.

UdeM and ECCC are committed to fostering diversity within their communities as a source of excellence, cultural enrichment, and social strength. We welcome those who would contribute to the further diversification of our research community including, but not limited to: women; visible minorities; First Nations, Inuit and Métis peoples; persons with disabilities; and persons of any sexual orientation, gender identity and/or expression. We understand that career paths vary. Legitimate career interruptions will in no way prejudice the assessment process and their impact will be carefully considered.

UdeM, with its affiliated schools, HEC Montréal and Polytechnique Montréal, is the leading hub of higher education in Quebec. UdeM ranks 4<sup>th</sup> in the country in terms of the volume of its research activities. UdeM is situated on land where, long before the arrival of the French, people of many Indigenous nations came together and interacted. We wish to acknowledge these nations, their descendants and the spirit of fraternity that presided over the signing in 1701 of the Great Peace of

Montreal, a treaty that fostered peaceful relationships between France, its Indigenous allies and the Haudenosaunee federation (pronunciation: O-di-no-sho-ni). The spirit of fraternity that inspired this treaty serves as a model for UdeM's community.

ECCC is the lead federal department for a wide range of environmental issues and is relied upon to provide science-based environmental information and services so that Canadians may make informed decisions relating to their health and safety. ECCC is tasked with implementing the Pan-Canadian Framework on Clean Growth and Climate Change, Canada's Paris Agreement commitments, and contributing to the United Nations' 2030 Agenda Sustainable Development Goals.