

Postdoctoral or research associate position in very high-resolution climate modeling

Location: [Centre ESCER](#), [Department of Earth and atmospheric sciences](#), Université du Québec à Montréal (UQAM), Montréal, Canada.

Starting data and duration: as soon as possible for a duration of up to 2 years.

Background: This position is part of the “High Resolution Climate Simulation and Analysis” ([SACHR](#)) project funded by the Quebec’s “Ministère de l’Environnement, de la Lutte contre les changements climatiques, de la Faune et des Parc”. SACHR aims to develop the new version of the Canadian Regional Climate Model (MRCC6/GEM5), based on the weather forecasting model (GEM5) from the Canadian Weather Service. The selected candidate will join the research team on regional climate modeling led by Professors Alejandro Di Luca, Julie Thériault, Philippe Lucas-Picher and René Laprise at UQAM's Department of Earth and Atmospheric Sciences.

This project aims to evaluate and enhance the convection-permitting version of the CRCM6/GEM5 model, currently under development at ESCER, which operates at a horizontal grid spacing of 2.5 km. The added value of the 2.5-km version, compared to the standard 12-km resolution, will also be assessed. The specific phenomena to be investigated will be determined based on the candidate's expertise.

Required skills	Postdoctoral position	Research associate
A PhD in atmospheric science or related field	X	
M. Sc. Degree in atmospheric sciences or related field.		X
Research experience in the field of interest	X	X
A publication record in peer-reviewed, international journals	X	
Excellent knowledge of the Linux environment and in Python, Matlab, or R programming. Experience with Fortran programming languages and with high performance computing systems is also desirable.	X	X
Ability to handle large databases, preferably from numerical weather forecasts or climate models.	X	X
Ability to collaborate and function effectively within a team.	X	X

How to apply: Please send your application to professors Alejandro Di Luca (di_luca.alejandro@uqam.ca) and Julie Thériault (theriault.julie@uqam.ca). It should include: 1) a cover letter, 2) a complete CV and 3) names and emails of at least 2 references.