

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 5 years.

Background: This position is part of the project “Amélioration de la modélisation des Aléas Climatiques au Québec (ALÉA-Climat)” funded by the Quebec’s “Ministère de l’Environnement, de la Lutte contre les changements climatiques, de la Faune et des Parc”. ALÉA-Climat aims to continue the improvement of the latest version of the Canadian Regional Climate Model (CRCM6-GEM5), with a special focus on the simulation of impactful hazards. The CRCM6-GEM5 model is developed at the Centre pour l'étude et la simulation du climat à l'échelle régionale (ESCER) in collaboration with Environment and Climate Change Canada and the Ouranos consortium. The selected candidate will join the research team on regional climate modeling led by Professors Alejandro Di Luca, Julie Thériault and Philippe Lucas-Picher at ESCER and UQAM's Department of Earth and Atmospheric Sciences.

The ALÉA-Climat project aims to evaluate and develop a more complete and flexible version of the Canadian Regional Climate Model (MRCC6-GEM5) to improve the representation of key physical processes at the regional scale. It will produce high- and very high-resolution simulations (12 km and 2.5 km) to better capture extreme weather and climate hazards in Québec, including heavy precipitation, droughts, heatwaves, and winter storms.

Required skills	Postdoctoral position	Research associate
PhD in atmospheric science or related field	X	
Master’s degree in atmospheric sciences or related field.		X
Research experience in the relevant field	X	X
Strong publication record in peer-reviewed scientific journals	X	
Proficiency in Linux environment and Python programming; experience with Fortran is an asset	X	X
Experience with high-performance computing systems (HPC)	X	X
Ability to handle and analyze large datasets	X	X
Demonstrated ability to work effectively in a team	X	X

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