

Post-doc position in Earth system modelling of carbon dioxide removal

We invite applications from highly motivated PhDs for a postdoctoral position investigating the climate implications of carbon dioxide removal. The position is part of a transdisciplinary research project ([CanCO2Re](#)) assessing the sustainability, equity and feasibility of carbon dioxide removal, with partners across Canada.

The successful candidate will join the [research group](#) of Dr Kirsten Zickfeld at [Simon Fraser University \(SFU\)](#) and be supervised jointly by Dr. Paul Kushner at the University of Toronto. SFU is located in Metro Vancouver, British Columbia, Canada, a vibrant metropolitan area situated in a spectacular natural setting of ocean and mountains.

The successful candidate will join a dynamic research environment with expertise in Earth system modelling, climate dynamics and climate-carbon cycle interactions. The focus of the position will be on quantifying the climate implications of a range of emission scenarios with different means and amounts of carbon dioxide removal using Earth system models of full and intermediate complexity. The position will involve:

- A primary responsibility to design, execute, and analyze of Earth system model simulations.
- A primary responsibility to prepare scientific publications and disseminate research results in conferences and workshops.
- A secondary responsibility to support development of emulators to capture and generalize the Earth-system model simulations.
- Opportunities to engage in outreach/knowledge mobilization activities of the CanCO2RE project.

Funding is available for one year, with possibility of renewal for one additional year. The preferred start date is January 2025.

Candidates with a PhD degree (or international equivalent) in climate and atmospheric science, oceanography, physical geography, environmental science or related disciplines are invited to apply. Strong quantitative and computational skills, demonstrated ability to publish work in peer-reviewed journals, ability to work independently and excellent oral and written communication skills are required. Experience using Earth system models of full or intermediate complexity for research, including minor modifications of the model codes, is strongly desirable.

Simon Fraser University is strongly committed to diversity within its community and especially welcomes applications from racialized persons / persons of colour, women, Indigenous Peoples, persons with disabilities, people of all sexual orientations and gender identities, and others who may contribute to the further diversification of ideas.

For consideration, please send a single pdf document containing 1) a 1-page cover letter summarizing qualifications and experience relevant to the advertised position, 2) a CV listing education, past employment, research contributions including a publication list and contact information of three academic references, and 3) a 2-page research statement outlining research interests related to the advertised position to Dr. Kirsten Zickfeld (kzickfel@sfu.ca).

Evaluation of applications will start on October 21st 2024 and will continue until the position is filled.

For further information contact:

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