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PhD on Carbon Dynamics and Machine Learning

The School of Environmental Studies at Queen's University is seeking to fill one PhD position in terrestrial ecosystem modeling. The successful applicant will conduct research that integrates numerical modeling, global Earth observations, and artificial intelligence to constrain future carbon cycle fluxes. This research will support the evaluation and development of the land surface component of the Canadian Earth System Model. The student will join a dynamic research group with the opportunity to develop strong working relationships with academic and government scientists across Canada. The project, led by Dr. Christian Seiler, starts in September 2024. Applicants with training in computer science, climate sciences, physics, or mathematics are particularly encouraged to apply. Strong programming skills in shell scripting and R (or Python) are expected.

The Ph.D. student will be supported with a minimum of $29,000 per year for four years. Additional funding sources include the Natural Sciences and Engineering Research Council of Canada (NSERC) Postgraduate Scholarships Doctoral program, and the Ontario Graduate Scholarship (OGS) Program.

The School of Environmental Studies offers academic programs and scholarly research emphasizing the diverse contributions of the natural sciences, social sciences and humanities to understanding and addressing environmental problems. We also engage with government, industry and community stakeholders to pursue meaningful environmental research and sustainable practices. Queen's University is a Canadian research-intensive university with a transformative student learning experience.

The University invites applications from all qualified individuals. Queen's is committed to employment equity and diversity in the workplace and welcomes applications from women, visible minorities, Aboriginal Peoples, persons with disabilities, and persons of any sexual orientation or gender identity. This call only accepts applications from Canadian citizens and permanent residents.

If you would like to apply, please send an e-mail to Dr. Christian Seiler (christian.seiler@queensu.ca) with "PhD on Carbon Dynamics and Machine Learning" in the subject line. Please attach a single PDF document that contains (i) a cover letter, (ii) CV, (iii) transcripts, and (iv) a list with the contact information of three potential referees. All applications must include a statement confirming whether they are Canadian citizen or permanent resident. The reviewing process will begin on March 15, 2024, but the position will remain open until a suitable candidate is found. For more information, please visit https://www.queensu.ca/ensc.