



Graduate positions in Seismology

The Department of Earth & Environmental Sciences at the University of Ottawa invites applications to fill two fully funded graduate positions (M.Sc. or Ph.D.) in the uOttawa Geophysics group (<https://www.uogeophysics.com>). The students will work on projects related to the study of lithosphere structure and dynamics at the Hikurangi (New Zealand) and Cascadia (western Canada) subduction zones. Projects may involve seismic data collection at sea using arrays of broadband ocean-bottom seismic instruments from the NFSI (<http://www.nfsi.ca>) and other facilities. The successful candidates will be expected to design and implement data processing tools combined with modern, statistical learning-based methods to investigate the seismic velocity structure of the lithosphere.

Necessary qualifications or skills:

- Completed M.Sc. (or equivalent) in Geophysics, Geosciences, Physics, Civil or Mining Engineering or related fields.
- Relevant research experience and skills in other fields will be considered.
- Strong candidates with a B.Sc. degree in those fields will be considered for an M.Sc. position, with the possibility to fast-track to the Ph.D. program.
- Good written and spoken English and/or French.
- Programming experience is an asset.

Tasks:

- Developing and testing methodologies for building seismic velocity models at plate boundaries using broadband seismic data.
- Evaluating, understanding, interpreting and comparing seismic velocity models.
- Interacting with scientists from different disciplines (collaborators within the project(s)), communicating and disseminating results at conferences and through publications.

Application deadline: January 8, 2024

Start Date: September 2024 or January 2025

The University of Ottawa and the Geophysics Group are committed to diversity and equity in employment (<https://www.uottawa.ca/president/strategic-areas/diversity-and-inclusion>). We encourage applications from women, indigenous people, persons with disabilities, ethnic minorities, persons of minority sexual orientation or gender identity, visible minorities, and others who may contribute to diversity. The two positions are fully funded through NSERC grants, which offer financial support for parental leaves and extension of the degree (https://www.nserc-crsng.gc.ca/NSERC-CRSNG/policies-politiques/Wleave-Fconges_eng.asp).

For more information, please email Prof. Pascal Audet (he/him) (pascal.audet@uottawa.ca). Interested candidates should send: 1) a one-page cover letter outlining their suitability and motivation for the position and any factors that influenced their ability to perform academically (family responsibilities, medical leaves, etc.); 2) official transcripts; and 3) a full CV outlining education, research experience and contributions, and contact details of two references. The selected applicants will be asked to submit a formal application for either the [MSc](#) or [PhD](#) program in Earth Sciences at the University of Ottawa (<https://www.uottawa.ca/graduate-studies/programs-admission/apply>) **before February 1, 2024.**