



## Postdoctoral Position in Marine Broadband Seismic Computing

The Department of Earth & Environmental Sciences at the University of Ottawa invites applications to fill a one-year Postdoctoral (PDF) position in the uOttawa Geophysics group (<https://www.uogeophysics.com>), with possible extension for a second year. The successful candidate will be expected to lead the development of open-source data processing software to investigate the seismic velocity structure of the lithosphere and develop training workshops on their usage. In addition, the PDF will work on a number of projects in Marine Seismology related to the study of oceanic lithosphere structure and processes, in particular at tectonic plate boundaries, through seismic imaging. Potential research targets include the Hikurangi margin (New Zealand), the Cascadia subduction zone and the Queen Charlotte fault region. 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.

### Necessary qualifications or skills:

- Completed PhD in Geophysics, Geosciences, or related field
- Good written and spoken English and/or French
- Advanced programming experience (Developer level, ideally in Python)

### Tasks:

- Lead the development of open-source software for broadband OBS data processing and seismic imaging
- Design and implement training workshops on usage of open-source seismic software programs
- Participate in research projects in the uOttawa Geophysics Group, in particular those involving marine seismic data
- Provide mentorship to members of the research group
- Interact with scientists from different disciplines (collaborators within the research project(s)), communication and dissemination of results and research progress at conferences

**Application deadline:** June 1, 2021

**Start Date:** September 2021 (or later)

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 position is fully funded through the University Research Chair program in Solid Earth Geophysics.

Interested candidates should send a one-page cover letter to Prof. Pascal Audet (he/him) ([pascal.audet@uottawa.ca](mailto:pascal.audet@uottawa.ca)) outlining their suitability and motivation for the position and possibly listing any factors that influenced their ability to perform academically (family responsibilities, medical leaves, etc.). A full CV with a list of publications and contact details of three references with research experience should also be included. The position is planned to start in September 2021, but this is subject to modification depending on the development of the pandemic situation and other intangibles.

More information about the status of PDFs as Employees of the University of Ottawa can be found [here](#).