



# UNIVERSITY OF CALGARY

## University of Calgary, Department of Geoscience Postdoctoral Fellow Positions in Microseismic Monitoring and Seismology

Up to three postdoctoral fellow positions are available for highly qualified individuals to conduct innovative research in the following areas: 1) development of innovative methods for processing, analysis and interpretation of borehole microseismic data; 2) teleseismic studies of the deep lithosphere in western Canada, primarily using surface-wave tomography and receiver-function analysis; and 3) numerical simulation of wave propagation at various scales with spectral element and finite-difference methods.

### Required knowledge and skills

- PhD in geophysics with specialization in seismology, or related discipline. The applicant must have earned a doctoral degree within the past three years.
- Advanced programming skills in a matlab environment.
- For the position in teleseismic studies, knowledge of SAC and experience with surface-wave tomography and/or receiver-function (including S-receiver function) studies is required.
- For the microseismic position(s), previous experience working with microseismic data is an asset.
- Excellent written and verbal communication skills in English. The role of the PDF will involve significant communication at various levels in academia and industry.
- The applicant must be capable of working in a self-directed manner within a team environment. The applicant must have excellent multi-tasking skills to provide support to other members of the project team.
- A high level of productivity for peer-reviewed publications is expected.

### Remuneration and term

Remuneration will range between CAD \$45,000 and CAD \$50,000 depending on experience. The term is for one year, renewable for a second year. The expected start date is January 1, 2013.

### Application procedure

Applicants should submit a CV, list of publications, and a statement of research interests, and should arrange for three letters of reference to be sent directly by email to Professor Eaton at [eatond@ucalgary.ca](mailto:eatond@ucalgary.ca). All other application materials should be sent by email (preferred), or post, to:

Professor David Eaton, Department of Geoscience, University of Calgary  
2500 University Drive NW, Calgary, Alberta, T2N 1N4, Canada. Email: [eatond@ucalgary.ca](mailto:eatond@ucalgary.ca)

Information about the Department Geoscience can be found at <http://geoscience.ucalgary.ca> and on the research consortium at <http://www.microseismic-research.ca>. Prospective applicants are also invited to consult the University of Calgary's Postdoctoral Program website for further information: <http://www.ucalgary.ca/postdoc/>.

**Evaluation of applications will commence: 1 October 2012.**