

Postdoctoral Researcher Earthquake Mechanics

The Department of Earth and Planetary Sciences at McGill University invites applications for a two-year Postdoctoral Researcher position in earthquake mechanics beginning Fall 2020. The Researcher will work with an interdisciplinary team of scientists to improve understanding of the causes and controls on induced earthquakes to assist industry regulators to build proactive hazard mitigation strategies.

The successful candidate's responsibilities will include experimental characterization of the frictional and poroelastic properties of reservoir rocks from northern British Columbia and fault stability analysis through numerical modeling based on the experimental results. Experiments will be conducted in collaboration with the University of California, Santa Cruz.

Candidates must have a doctoral degree in geomechanics, fault mechanics, earthquake seismology, or a related subject. Candidates should have strong mathematical/numerical skills. Experience with laboratory measurements of rock physical properties or frictional behaviour is preferred.

The Department of Earth and Planetary Sciences takes an active role in building talented, inclusive and culturally competent workforce. We understand that our shared future is guided by basic principles of fairness, mutual respect, and commitment to each other. Applicants should share this commitment to fostering diversity, equity, inclusive excellence, and of engagement that creates an inclusive environment in their department/workplace. We welcome and encourage applications from all genders, Indigenous persons, people with disabilities, members of visible/racialized minorities, LGBTQIA+ individuals, and other groups which are currently underrepresented within the Earth Science community. Candidates are welcome to signal any leave that affected productivity, or any other circumstances that may have had an effect on their career path. This information will be considered to ensure the equitable assessment of the candidate's record. McGill seeks to ensure the equitable treatment and full inclusion of people with disabilities by striving for the implementation of universal design principles, across all facets of the University community, and through accommodation policies and procedures. Individuals who anticipate needing accommodations for any part of the application process may contact, in confidence, accessibilityrequest.hr@mcgill.ca, or phone at 514-398-2477.

The salary will be \$50,000 plus benefits. The position includes a maximum relocation allowance of \$2,500. The postdoctoral researcher will have access to a wide range of networking, mentoring and development opportunities for early career professionals, including at McGill and with national and international collaborators. Training will be customized for the researcher by identifying specific technical skills and professional development opportunities to be prioritized during their work on the project.

Review of applications will begin on July 31st, 2020 and continue until the position is filled. The anticipated start date for the fellowship is October 1st, 2020 (negotiable). Applicants must have

been awarded their Ph.D. within three years of their start date, with allowances made for an acceptable delay in research or period of inactivity (i.e. illness, parental leave, etc.).

All applications must include:

- a cover letter outlining the candidate's academic qualifications and professional experiences, motivation, and how they will bring value to project goals;
- a current curriculum vitae;
- two letters of recommendation that support the candidate's application; and
- a copy of university transcript(s).

For full consideration, please submit your application electronically in PDF format by email to james.kirkpatrick@mcgill.ca by the application deadline. Please arrange with recommenders to send letters of recommendation directly to the same email address, preferably in PDF for Microsoft Word format.

Please send any questions to Dr. James Kirkpatrick (james.kirkpatrick@mcgill.ca).

McGill University is located in the city of Montreal, Québec, Canada, with a dynamic, multicultural community of around 1 million people. The Department of Earth and Planetary Sciences is located on the downtown campus. Information about work permits, healthcare and benefits, parental leave, and other employment-related questions can be found at the following links.

<https://www.mcgill.ca/gps/postdocs>

<https://www.mcgill.ca/gps/postdocs/international/workpermit>

<https://www.mcgill.ca/gps/postdocs/fellows/healthcare>

<https://www.mcgill.ca/gps/students/graduate-policies-and-regulations/parental-leave>