



UNIVERSITY OF LEEDS

CANDIDATE BRIEF

Research Fellow in Geophysics

School of Earth and Environment, Faculty of Environment



Salary: Grade 7 (£33,199 – £39,609 p.a.)

Due to funding restrictions this post will be appointed at no higher than spine point 31 (£34,189 p.a.)

Reference: ENVEE1307

Closing date: 19 March 2019

Fixed-term for 18 months

Job share and flexible working arrangements will be considered

Research Fellow in Geophysics

School of Earth and Environment, Faculty of Environment

Are you an ambitious researcher looking for your next challenge? Do you have a background in geophysics? Do you want to further your career in one of the UK's leading research intensive Universities?

We are seeking a Postdoctoral Research Fellow to join the Institute for Geophysics and Tectonics at the University of Leeds. This role is focused on refining observations of the seismicity associated with the internal deformation of subducting slabs, using a combination of observational earthquake seismology and the statistical assessment of seismic catalogues. This will be complemented by numerical geodynamic modelling to probe the processes controlling the occurrence and distribution of these earthquakes. In particular, the aim of the project is to advance our understanding of the temporal variation and evolution of intraslab seismicity, and how this may relate to time-varying changes in the stress state (most likely driven by the occurrence of large-magnitude earthquakes within the subduction system) and/or the rheology (particularly the release to fluids during slab descent) of the subducting slab. Geographic areas of interest include, but are not limited to, the subduction systems of Central and South America.

We are looking for candidates who are enthusiastic and numerate, with have a PhD (or one close to completion) in an appropriate aspect of solid-Earth geophysics, along with prior experience in either observational seismology or geodynamic modelling.

What does the role entail?

As a Research Fellow, your main duties will include:

- Conducting research into the seismicity hosted with subducting slabs, their spatio-temporal distribution, and the causative processes behind these earthquakes;
- Generating and pursuing original independent research ideas in associated subject areas, as appropriate;
- Developing research objectives and proposals and contributing to setting the direction of the research project;
- Evaluating methods and techniques used and results obtained by other researchers and to relate such evaluations appropriately to your own work;



- Communicating or presenting research results through publication, attendance at national and international meetings/conferences, and other recognised forms of output as appropriate;
- Preparing papers for publication in leading international journals and independently writing reports;
- Working both independently and also as part of a larger team of researchers, engaging in knowledge-transfer activities where appropriate and feasible;
- Maintaining your own continuing professional development and acting as a mentor to less experienced colleagues as appropriate;
- Contributing to the research culture of the Institute, where appropriate;
- Contributing to the training of both undergraduate and postgraduate students, where appropriate, including assisting with the supervision of projects in areas relevant to the project.

These duties provide a framework for the role and should not be regarded as a definitive list. Other reasonable duties may be required consistent with the grade of the post.

What will you bring to the role?

As a Research Fellow you will have:

- A degree and PhD (or close to completion) in geophysics or a closely allied discipline;
- A strong background in observational seismology and/or geodynamic modelling;
- Experience in computer programming or scripting;
- Demonstrated experience of conducting research;
- Good time management and planning skills, with the ability to meet tight deadlines and work effectively under pressure;
- Excellent written and verbal communication skills including presentation skills and the ability to communicate effectively with a wide range of stakeholders;
- Proven ability to manage competing demands effectively, responsibly and without close support;
- A proven ability to work well both individually and in a team;
- A strong commitment to your own continuous professional development.



You may also have:

- A track record of successful, high quality, publications in internationally-recognised journals, as appropriate for your career stage.

How to apply

You can apply for this role online; more guidance can be found on our [How to Apply](#) information. Applications should be submitted by **23.59** (UK time) on the advertised closing date.

Contact information

To explore the post further or for any queries you may have, please contact:

Dr Timothy Craig, Royal Society University Research Fellow

Tel: +44 (0)113 343 5543

Email: T.J.Craig@leeds.ac.uk

Additional information

Find out more about the [Faculty of Environment](#).

Find out more about our [Research and associated facilities](#).

Working at Leeds

Find out more about the benefits of working at the University and what it's like to live and work in the Leeds area on our [Working at Leeds](#) information page.

Candidates with disabilities

Information for candidates with disabilities, impairments or health conditions, including requesting alternative formats, can be found in our [Accessibility](#) information or by getting in touch with us at disclosure@leeds.ac.uk.



Criminal record information

Rehabilitation of Offenders Act 1974

A criminal record check is not required for this position, however, all applicants will be required to declare if they have any 'unspent' criminal offences, including those pending.

Any offer of appointment will be in accordance with our Criminal Records policy. You can find out more about required checks and declarations in our [Criminal Records information](#).

