



UNIVERSITY OF LEEDS

CANDIDATE BRIEF

Research Fellow in Marine Geophysical Mapping, Faculty of Environment



Salary: Grade 7 (£33,199 – £39,609 p.a.) Due to funding restrictions this post can only be appointed at spine point 32 (£35,211p.a.)

Reference: ENVEE1284

Closing date: 9 December 2018

Fixed-term for 2 years

This post is open to job share and flexible working arrangements

Research Fellow in Marine Geophysical Mapping School of Earth and Environment, Faculty of Environment

Are you an ambitious researcher with skills in reflection seismic mapping, and looking for your next challenge? Do you want to be part of a large, cutting-edge geoscience research programme? Do you want to further your career in one of the UK's leading research intensive Universities?

We are seeking a Research Fellow who will play a pivotal role in mapping the late Quaternary sediments of the Southern North Sea, identifying key horizons that mark the flooding of the basin during the Last Interglacial (~125,000 years ago), and the subsequent depositional patterns. Alongside project partners, you will use these data to plan phases of offshore core collection, with opportunities to join data collection on vessels within the North Sea (with appropriate training). Utilising the reflection seismic and borehole data, you will produce integrated models of coastal response and sediment mobility in the region, under relative sea-level changes during the Last Interglacial.

This post is the first of several appointments in a €2 million European Starting Grant project (RISeR), which aims to advance our understanding of the magnitude, rates and drivers of sea-level change during the Last Interglacial, to inform both global and regional sea-level projections beyond 2100. You will work closely with Dr Natasha Barlow, other research fellows, PhD students and benefit from a wider research network including Leeds Quaternary, the Stratigraphy Group and Applied Geophysics Group.

You will have a PhD (or close to completion) in Geoscience, or related fields, with a proven background in seismic mapping. You will also have the ability to conduct independent research and a developing track record of publications in international journals. In addition you will have excellent communication, planning and team working skills.



What does the role entail?

As a Research Fellow, your main duties will include:

- Seismic mapping, using a range of datasets from the Southern North Sea;
- Processing of geophysical data;
- Contributing to the planning of offshore data (seismic and borehole) collection;
- Contributing to offshore site survey and data collection cruises;
- Developing models of coastal response to Last Interglacial sea-level change, integrating seismic and borehole data;
- Data management and reporting in line with Horizon 2020 requirements;
- Generating and pursuing independent and original research ideas in the appropriate subject area;
- Developing research objectives and proposals and contributing to setting the direction of the research project and team including preparing proposals for funding in collaboration with colleagues;
- Evaluating methods and techniques used and results obtained by other researchers and to relate such evaluations appropriately to your own work;
- Preparing papers for publication in leading international journals and disseminating research results through other recognised forms of output;
- 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 training of both undergraduate and postgraduate students, 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 PhD (or close to completion) in Geosciences or a closely allied discipline;
- A strong background in seismic mapping and geological interpretation;
- Experience of handling large datasets and seismic mapping software, such as Petrel or Kingdom;
- Good time management and planning skills, with the ability to meet tight deadlines, manage competing demands and work effectively under pressure without close support;
- A proven track record of peer-reviewed publications in high impact factor journals;
- Excellent written and verbal communication skills including presentation skills;
- 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:

- Experience of handling of borehole material or data;
- Experience of working on offshore research cruises;
- Understanding of late Quaternary environmental change.

How to apply

You can apply for this role online; more guidance can be found on our [How to Apply](#) information page. 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 Natasha Barlow](#), University Academic Fellow

Tel: +44 (0)113 343 3761

Email: n.l.m.barlow@leeds.ac.uk



Additional information

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

Find out more about [Athena Swan](#) in the Faculty.

Find out more about our [School](#).

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 is 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 on our [Accessibility](#) information page 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 page.

