



UNIVERSITY OF LEEDS

## CANDIDATE BRIEF

Research Fellow in Coastal and Sea-Level Modelling, Faculty of Environment



**Salary: Grade 7 (£39,105 – £46,485 p.a. depending on experience)**

**Reporting to: Professor Natasha Barlow**

**Reference: ENVEE1793**

**Fixed term for 12 months to complete specific time limited work**

**Location: University of Leeds (with scope for hybrid/remote UK working)**

**We are open to discussing flexible working arrangements**

# Research Fellow in Coastal and Sea-Level Modelling, Faculty of Environment

## Overview of the Role

**Are you motivated by delivering applied geoscience research to meet the challenges of the energy transition?**

In this exciting and impactful role, you will work closely with the sea-level change and coastal sedimentology experts and colleagues at the UK Government organisation, Nuclear Waste Services. You will lead a review of sea-level change rates and identify appropriate analogues of transgressive coastal systems. The results will inform data-driven assessments of future sea-level scenarios using process-based coastal change modelling to support decision-making around future sea-level change scenarios and risk assessments. You will join a large and diverse research group focussing on sea-level change, sedimentology, and Quaternary geology and work alongside the Geosolutions Leeds interdisciplinary research centre.

## Main duties and responsibilities

- Developing a quantitative review of rates of Pliocene and Quaternary interglacial sea-level change scenarios for current/future UK nuclear sites;
- Conducting field- and desk-based work to assess modern and/or palaeo coastal landscapes as appropriate analogues for future coastal change at current/future UK nuclear sites;
- Undertaking exploratory long-term (multiple millennia) future coastal change modelling at UK nuclear sites;
- Collaborating with, and disseminate results to, stakeholders, including [Nuclear Waste Services](#) and colleagues in academia and industry;
- 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.

## Qualifications and skills

### Essential

- A PhD or near completion - i.e. the initial thesis needs to have been handed in at the point of application in geosciences or a closely allied discipline;
- A strong background in sea level and/or coastal science;
- A background in coastal sedimentology
- Experience of reviewing and synthesising literature, and managing large datasets;
- 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 developing track record of peer reviewed publications in international 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.

### Desirable

- Experience of pursuing external funding to support research;
- Experience of applied research and working with stakeholders;
- Experience of process-based coastal modelling and/or geomorphology fieldwork.



## Additional information

Please note: If you are not a British or Irish citizen, from 1 January 2021 you will require permission to work in the UK. This will normally be in the form of a visa but, if you are an EEA/Swiss citizen and resident in the UK before 31 December 2020, this may be your passport or status under the EU Settlement Scheme.

Please note that this post may be suitable for sponsorship under the Skilled Worker visa route but first-time applicants might need to qualify for salary concessions. For more information please visit: [www.gov.uk/skilled-worker-visa](http://www.gov.uk/skilled-worker-visa)

For research and academic posts, we will consider eligibility under the Global Talent visa. For more information please visit: <https://www.gov.uk/global-talent>

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

Find out more about the [School of Earth and Environment](#) and Professor [Natasha Barlow](#) and Professor [David Hodgson](#).

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

Find out more about our Faculty research centre [Geosolutions Leeds](#)

Find out more about [Equality in the Faculty](#)

### Working at Leeds

We are a campus-based community and regular interaction with campus is an expectation of all roles in line with academic and service needs and the requirements of the role. We are also open to discussing flexible working arrangements. To find out more about the benefits of working at the University and what it is like to live and work in the Leeds area visit our [Working at Leeds](#) information page.

### Our University

As an international research-intensive university, we welcome students and staff from all walks of life and from across the world. We foster an inclusive environment where all can flourish and prosper, and we are proud of our strong commitment to student education. Within the Faculty of Environment we are dedicated to diversifying our community and we welcome the unique contributions that individuals can bring, and



particularly encourage applications from, but not limited to Black, Asian, those who belong to a minority ethnic community; people who identify as LGBT+; and disabled people. Candidates will always be selected based on merit and ability. »

The Faculty of Environment has received a prestigious Athena SWAN silver award from [Advance HE](#), the national body that promotes equality in the higher education sector. This award represents the combined efforts of all schools in the Faculty and shows the positive actions we have taken to ensure that our policies, processes and ethos all promote an equal and inclusive environment for work and study.

### **Information for disabled candidates**

Information for disabled candidates, impairments or health conditions, including requesting alternative formats, can be found under the 'Accessibility' heading on our [How to Apply](#) information page or by getting in touch by [emailing HR via hr@leeds.ac.uk](mailto:hr@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.

You can find out more about required checks and declarations in our [Criminal Records](#) information page.

