



UNIVERSITY OF LEEDS

CANDIDATE BRIEF

Research Fellow in Submarine Lobe Systems, Faculty of Environment



Salary: Grade 7 (£33,797 – £40,322 p.a.)

Reference: ENVEE1376

Fixed-term for 2 years

We will consider job share / flexible working arrangements

Research Fellow in Submarine Lobe Systems School of Earth and Environment, Faculty of Environment

Are you a geoscience researcher looking for to contribute to a large, multidisciplinary research programme? Do you have an established background in sedimentology and stratigraphy? Do you have experience of fieldwork?

A position is available for an outstanding sedimentologist/stratigrapher to join the [Stratigraphy Group](#), a large international research group based at the University of Leeds, as Research Fellow in Submarine Lobe Systems. You will take on a leading role on the [LOBE Phase 3 Project](#). This exciting research programme aims to develop models that help to improve our understanding of deep-water basin-floor fan system evolution. The research programme, which is led by [Prof David Hodgson](#) (Leeds), Dr Ian Kane & Prof Stephen Flint (Manchester), and Prof Chris Jackson (Imperial College), comprises integrated fieldwork, analysis of subsurface systems, numerical modelling, and physical experiments.

You should have a PhD in geoscience, with skills in, or willingness to learn, numerical and physical experiments that aim to model deep-water sedimentary processes and/or stratigraphic successions.

You will be comfortable leading and integrating key aspects of the programme, and be willing to contribute to and support a diverse and international research team. You will coordinate fieldwork campaigns and field workshops in Argentina and South Africa, so experience of working in remote environments is desirable. The post is available for 2 years, based at the University of Leeds, UK.

What does the role entail?

As a Research Fellow, your main duties will include:

- Leading planning and executing fieldwork campaigns and field workshops to the Neuquen Basin, Argentina, and the Karoo Basin, South Africa;
- Coordinating the mapping and interpretation of submarine lobe complexes captured in virtual outcrop models, and devising workflows to extract quantitative information;



- Taking responsibility for aspects of a comprehensive review paper on submarine lobe systems;
- Designing and delivering a novel set of physical experiments for unconfined sediment gravity flows in the Sedimentary Experimental Fluid Dynamics Laboratory (Leeds);
- Collaborating with four PhD students working on the Lobe3 programme;
- Generating and pursuing independent and original research ideas in the appropriate subject area;
- Preparing papers for publication in international peer-reviewed journals and disseminating research results through other recognised forms of output;
- Working both independently and as part of a larger team of researchers, and engaging in knowledge-transfer activities where appropriate and feasible;
- Contributing to the training of both undergraduate and postgraduate students, including assisting with the supervision of projects in areas relevant to the Stratigraphy Group.

These duties provide a framework for the role and should not be regarded as a definitive list, and your continued professional development will be maintained in collaboration with the PI and independent mentor.

What will you bring to the role?

As a Research Fellow you will have:

- A PhD or near completion - i.e. the initial thesis needs to have been submitted at the point of application, in geoscience;
- A strong background in one or more of process sedimentology, stratigraphy, numerical modelling, physical experiments of sediment gravity flows;
- Experience of conducting safe fieldwork in remote areas;
- A willingness and ability to travel to and from Argentina and/or South Africa;
- A proven ability to integrate different datasets in order to develop new datasets and concepts;
- Good time management and planning skills, with the ability to meet tight deadlines, manage competing demands and work effectively under pressure and, at times, without close support;
- A proven track record of publishing in peer-reviewed international journals;
- Excellent written and verbal communication skills;



- A proven ability to work well both individually and in a team, and an understanding of equality, diversity and inclusion in the workplace;
- A strong commitment to your own continuous professional development, in consultation with the PI and mentors;
- A full clean driving licence.

You may also have:

- Experience of pursuing external funding to support research;
- Experience of developing field-based or laboratory-based research programmes;
- Experience of supervising and mentoring early-stage career researchers;
- Experience of leading field workshops with industry partners and first aid training;
- Experience of coding using Python or Matlab.

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:

[David Hodgson](#), Professor of Sedimentology and Stratigraphy

Tel: +44 (0)113 343 0236

Email: d.hodgson@leeds.ac.uk

Please feel free to contact members of the [Stratigraphy Group](#) to find out more about working in our research group.

Additional information

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



Find out more about the [School of Earth and Environment](#)

Find out more about the [Sorby Environmental Fluid Dynamics Laboratory](#)

Find out more about [Athena Swan](#) and [Equality and Inclusion in the Faculty of Environment](#).

A diverse workforce

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.

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.



