UNIVERSITY OF LEEDS

CANDIDATE BRIEF

Research Fellow in Palaeoclimate Modelling, Faculty of Environment

Salary: Grade 7 (£32,548 – £38,833 p.a.)

Reference: ENVEE1260

Closing date: 21 July 2018

Fixed term for 2 years (external funding)

Open to job share or flexible working considerations

Research Fellow in Palaeoclimate Modelling
School of Earth and Environment, Faculty of Environment

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

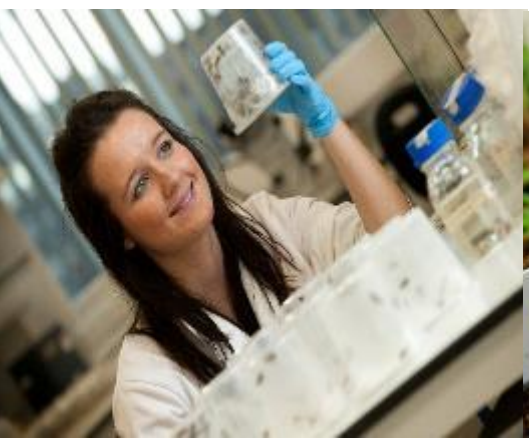
The candidate will join a large team of geochemists, palaeontologists and modellers at Leeds who have received NERC funding for their project Ecosystem resilience and recovery from the Permo-Triassic crisis, which is investigating the origin of the terrestrial mass extinction at the end of the Permian. This project is a component of a larger NERC Biosphere Evolution, Transitions & Resilience programme, jointly funded with the National Science Foundation China. You will simulate the climate changes over the Permo-Triassic boundary and the role of atmospheric carbon dioxide in driving the observed climate warming. This work will be undertaken in the Palaeo@Leeds research group, under the supervision of Dr Daniel Hill, Prof Alan Haywood and Dr Stephen Hunter, utilising the high performance computing facilities at the University of Leeds. As well as performing palaeoclimate model simulations the successful candidate will work closely with the wider research team, led by Prof Paul Wignall, investigating a broad range of palaeoclimate and paleontological themes.

You will have, or be close to obtaining, a PhD in the field of Earth, Environmental or Physical Sciences and have extensive experience of working with climate models. You will also have extensive knowledge of Earth history, and of applying physical models to palaeoclimate problems. You will show a strong commitment to publishing scientific results at an international level.

What does the role entail?

As Research Fellow, your main duties will include:

- Working with and in support of Prof Wignall's and Dr Hill's research grant to ensure the project is successfully completed;
- Producing Permo-Triassic climate model simulations using the HadCM3 version of the UK Met Office Unified Model and comparing these to appropriate palaeoclimate proxies;



- Generating and pursuing 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, where appropriate 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;
- Communicating or presenting research results through publication or other recognised forms of output;
- 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 School, 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 Research Fellow you will have:

- A first degree or a first degree and Master's degree in Mathematics, Physics, Oceanography or Geology/Earth Sciences, or a closely allied discipline;
- A PhD(or close to obtaining),based on using climate models/palaeoclimate models;
- A strong background in palaeoclimatological research;
- Demonstrated experience of the set up and execution of climate model simulations for past climate states involving the reconfiguration of the models land/sea mask and ocean bathymetry;
- 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;
- A track record of successful, high quality, publications in palaeoclimatology.

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.

Your application should include:

- a **supporting statement** evidencing how you believe your existing knowledge and experience equips you to carry out the role;
- a copy of your **curriculum vitae** giving full details of qualifications and experience;

Contact information

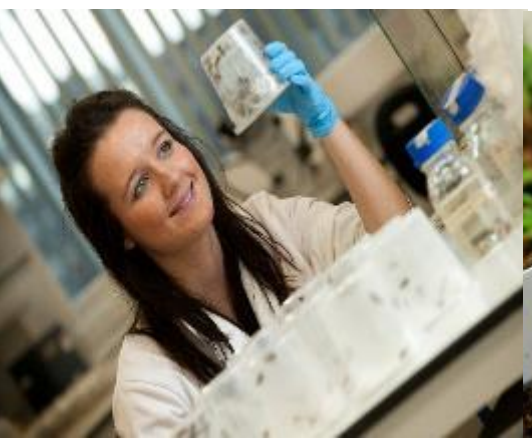
To explore the post further or for any queries you may have, please contact:

Dr Daniel Hill, Lecturer in Global Change Modelling
Tel: +44 (0)113 343 1052
Email: d.j.hill@leeds.ac.uk

Additional information

(SEE) Find out more about our Research and associated facilities.

Working at Leeds
You can find out more about our generous benefits package and more about what it is like to work at the University and live in the Leeds area in our Working at Leeds information.



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.