

THE POST

College:	Engineering, Mathematics and Physical Sciences (http://emps.exeter.ac.uk/)
Post:	Research Fellow
Reference No:	R46207
Grade:	F
HERA:	RFEL
Reporting To:	Pierre Friedlingstein

The above full-time post is available immediately for 36 months in the College of Engineering, Mathematics and Physical Sciences.

Job Description

Modelling global land ecosystem and biogeochemical processes and their feedbacks in the Earth System.

Main purpose of the job:

We are looking for a postdoctoral researcher to work on the land surface component of the UK Earth System Model (UK-ESM). The candidate will contribute to the further development of JULES, the land surface component of the UK-ESM. Research will be on the representation of the land nitrogen cycle or on land use and management, depending on the candidate expertise. In addition, the candidate will evaluate and analyse model simulations as part of the Coupled Model Intercomparison Project (CMIP6). The candidate is expected to present his/her work at project meetings and international conferences and publish in peer-reviewed journals. This work will be carried out as part of the CRESCENDO project, a five-year project funded under the European Union Horizon 2020 programme, starting 1 November 2015. CRESCENDO involves 25 European institutes and includes the seven leading European Earth system models.

Main duties and accountabilities:

1. To undertake research as appropriate to the field of study including:
 - Developing research objectives, projects and proposals;
 - Conducting individual or collaborative research projects;
 - Identifying sources of funding and contributing to the process of securing funds;
 - Extending, transforming and applying knowledge acquired from scholarship to research and appropriate external activities;
 - Writing up research work for publication;
 - Making presentations at national and international conferences and similar events;
 - Dealing with problems which may affect the achievement of research objectives and deadlines;
 - Analysing and interpreting the results of own research and generating original ideas based on outcomes;
 - Using initiative and creativity to identify areas for research, developing new research methods and extending the research portfolio;
 - Conducting individual or collaborative research projects;
 - Developing research objectives, projects and proposals;
 - Developing new concepts and ideas to extend intellectual understanding;

- Resolving problems of meeting research objectives and deadlines;
 - Developing ideas for generating income and promoting research area;
 - Developing ideas for application of research outcomes;
 - Deciding on research programmes and methodologies, often in collaboration with colleagues and sometimes subject to the approval of the head of the research programme on fundamental issues.
2. To contribute to teaching and learning programmes in the School and to supervise postgraduate research students.
3. To act as research team leader including:
- Mentoring colleagues with less experience and advising on their professional development;
 - Coaching and supporting colleagues in developing their research techniques;
 - Supervising the work of others, for example in research teams or projects;
 - Developing productive working relationships with other members of staff;
 - Co-ordinating the work of colleagues to ensure equitable access to resources and facilities;
 - Dealing with standard problems and help colleagues to resolve their concerns about progress in research.
4. To routinely communicate complex and conceptual ideas to those with limited knowledge as well as to peers using high level skills and a range of media and to present the results of scientific research to sponsors and at conferences.
5. To plan, co-ordinate and implement research programmes including:
- Managing the use of research resources and ensure that effective use is made of them;
 - Managing research budgets;
 - Helping to plan and implement commercial and consultancy activities;
 - Planning and managing own consultancy assignments.

This job description summarises the main duties and accountabilities of the post and is not comprehensive: the post-holder may be required to undertake other duties of similar level and responsibility. Please visit the Human Resources website to view the Research Fellow role profiles.

Person Specification

Competency	Essential	Desirable
Attainments/Qualifications	Be a nationally recognised authority in the subject area. PhD or equivalent qualification/experience in a related field of study.	Postdoctoral experience in the subject area (Land surface or Earth System Modelling)
Skills and Understanding	Knowledge in numerical modelling. Expertise in programming languages and software, use of large numerical codes	Knowledge in plant physiology or ecosystem biogeochemistry.
Prior Experience	Record of research output in peer reviewed publications. Experience of managing research projects and research teams.	Experience of postgraduate teaching and supervision. Experience of acting as principal investigator on research projects. Successful in obtaining grant funding.
Behavioural Characteristics	Excellent written and verbal communication skills. Able to communicate complex and conceptual ideas to a range of groups. Evidence of the ability to collaborate actively within the	

	Institution and externally to complete research projects and advance thinking. Able to participate in and develop external networks. Able to balance the pressures of research, administrative demands and competing deadlines.	
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Informal Enquiries

Before submitting an application you may wish to discuss the post further by contacting Professor Pierre Friedlingstein, email p.friedlingstein@exeter.ac.uk.

Additional Information Relating to the Post

Salary

Salary will be circa £33,574 per annum subject to knowledge, skills and experience.

An increment will be payable on 1 August each year until the top of the scale is reached (subject to being in post for 6 months and satisfactory performance). The scale will be subject to a cost of living review each year.

Hours of work

Full time appointments are contracted to work a 36.5 hour week, over five days, to suit the requirements of the College, as notified by the College Dean. The hours of part-time staff are specified in the letter of appointment.

Annual Leave

The annual leave entitlement for full-time appointments is 41 days per calendar year (pro rata for part-time appointments). For further information see our website <http://www.admin.ex.ac.uk/personnel/leave.shtml>.

Probationary Period

The appointment will normally be subject to a probationary period of one year.

References & Medical Clearance

All appointments are subject to satisfactory reference and medical checks and individuals will be required to complete a medical assessment form before appointment is confirmed. Applicants should note that the University normally contacts referees for short-listed applicants without further advice to applicants. When advising of referees, if they are resident overseas, please ensure you supply fax numbers and/or email addresses enabling us to contact them (if necessary) without delay.

Right to Work in the United Kingdom

If you do not have the right to work in the UK, this appointment will be subject to the University successfully obtaining a Certificate of Sponsorship under the UK's Points Based System for migrant workers and to you obtaining Entry Clearance/Leave to Remain.

For further information, see the Home Office website at <http://www.ukba.homeoffice.gov.uk/>. In particular you are encouraged to undertake a self assessment of your eligibility to work in the UK using the link to www.ukba.homeoffice.gov.uk/pointscalculator.

Terms & Conditions

The Terms and Conditions of Employment can be viewed on line by visiting <http://www.exeter.ac.uk/staff/employment/conditions/terms/>

Pensions

Membership of the Universities' Superannuation Scheme (USS) is automatic provided that you meet the qualifying criteria for membership. For details on the scheme please go to the <https://forthefuture.uss.co.uk>. Staff automatically become members and employee contributions will be taken from your pay unless you opt out in accordance with the current rules of the scheme. More information about the USS scheme can be found at www.uss.co.uk/members. The University, as your employer, contributes such sums as will be required to maintain the full benefits of the scheme. You may opt out of the scheme and if you wish to do so, you should contact the Pensions and Reward Advisor, Mrs Alison Rose (01392 723088/email a.j.rose@exeter.ac.uk) for further information.

Relocation

You may be able to claim relocation expenses in accordance with the University's Relocation Assistance Scheme. The maximum allowance that you can reclaim under the Relocation Assistance Scheme, if eligible, is 10% of salary.

Short-listing Information

We will acknowledge your application by email. The University of Exeter recognises the time and effort taken to apply for a position and will contact you by email to inform you of results of shortlisting

Application Procedure and Interview Information

The closing date for completed applications is **17 August 2016**.

Data Protection Act (1998)

The information contained within your application is being requested to enable the University to make employment decisions and meet statutory obligations. Any information provided to the University in this context will be treated confidentially and used only by manager(s), member of the University, Human Resources, Superannuation and Payroll during the course of your employment. Where the application relates to a post which is externally funded this information may be passed onto the relevant funding body.