



THE POST

College:	College of Life and Environmental Sciences
Post:	Postdoctoral Research Fellow
Reference No:	P63836
Grade:	F
HERA:	RFEL
Reporting To:	Professor Walter Oechel

The above full time post is available 01/11/2018 to 29/02/2020 with potential extensions based on funding in the College of Life and Environmental Sciences

Job Description

Main purpose of the job:

The main purpose of this position is to over-see the operation of 5 eddy covariance towers and associated equipment on the North Slope of Alaska, reduce and analyse the resultant data, prepare proposals, progress reports and research papers, and instruct and oversee interns and graduate students in the lab and in the field.

Applicants will possess a relevant PhD or equivalent qualification/experience in a related field of study and must have experience with eddy covariance tower operation, data analysis, and paper writing and publication. The successful applicant will also be able to work collaboratively, supervise the work of other students. Applicants should have demonstrated experience in the areas of micrometeorology, biometeorology, ecosystem ecology, or trace gas biogeochemistry. Candidates should have experience in database software and a computer language such as Matlab, or R and have prior experience or training in measuring carbon, water and energy fluxes between the biosphere and atmosphere. We seek someone who can work well with a team in the field environment, likes the outdoor, and has ideally experience in working under extreme arctic conditions.

The successful applicant will be able to develop the research objectives, publish the research results in peer-reviewed journal and make presentations at conferences and other events.

Main duties and accountabilities:

1. To undertake research as appropriate to the field of study. The responsibilities may include all or some of the following:
 - Publish research results in peer-reviewed journals
 - Supporting and occasionally acting on behalf of the principal investigator on research projects;
 - Developing research objectives, projects and proposals;
 - Contribute to collaborative research projects;
 - Identifying sources of funding and contributing to the process of securing funds;
 - Writing or contributing to publications or disseminating research findings using media appropriate to the discipline;
 - Making presentations at conferences or exhibiting work in other appropriate events;
 - Assessing, interpreting and evaluating outcomes of research;
 - 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 /following 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.
- Extending, transforming and applying knowledge acquired from scholarship to research and appropriate external activities.

2. To support the research team by including:

- Mentoring students and advising them 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.

3. To contribute to teaching and learning programmes in the School

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. As determined by the nature of the project and at the direction of the PI, to plan, co-ordinate and implement research programme activity including:

- Managing the use of research resources and ensuring that effective use is made of them;
- Monitoring and reporting on the use of research budgets;
- Helping to plan and implement commercial and consultancy activities;
- Where appropriate, to plan and manage 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	PhD in ecology, atmospheric science, or equivalent qualification/experience in a related field of study.	Standing in the research field as shown by multiple publications on eddy covariance data analysis
Skills and Understanding	Possess sufficient specialist knowledge in the discipline to develop/follow research programmes and methodologies, including knowledge of eddy covariance data processing. Record of research output in high quality publications.	
Prior Experience	Experience of managing research projects and research teams. Experience with field work, collecting and analysing eddy covariance data, and publish papers in peer reviewed journals	Experience in supervising other students
Behavioural Characteristics	Excellent written and verbal communication skills. Able to communicate complex and	Help to identify sources of funding, generate income, build relationships for future activities.

	<p>conceptual ideas to a range of groups.</p> <p>Evidence of the ability to collaborate actively within the Institution and externally to complete research projects and advance thinking.</p> <p>Able to participate in and develop external networks.</p> <p>Able to balance the pressures of research, administrative demands and competing deadlines.</p> <p>Able to work in a team and help other students to achieve their research objectives</p>	
Circumstances	<p>Travel to San Diego (CA) and Alaska, and spend six months a year in the US.</p> <p>A willingness to travel</p>	

Informal Enquiries

Before submitting an application, you may wish to discuss the post further by contacting Dr. Donatella Zona D.zona@sheffield.ac.uk and Pro. Walter Oechel W.Oechel@exeter.ac.uk

Terms & Conditions

Our Terms and Conditions of Employment can be viewed [here](#).

Further Information

Please see our [website](#) for further information on working at the University of Exeter.