



UNIVERSITY OF LEEDS

CANDIDATE BRIEF

Research Fellow in Antarctic Weather and Climate Extremes, Faculty of Environment



Salary: Grade 7 (£41,064 – £48,822 p.a.)

Reporting to : Professor Amanda Maycock

Reference: ENVEE1863

Fixed-term for 23 months – to complete specific time limited work

We will consider job share / flexible working arrangements

Research Fellow in Antarctic Weather and Climate Extremes

School of Earth and Environment, Faculty of Environment

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

You will join a team of climate scientists at the University of Leeds to work on the new NERC-funded Drivers and Impacts of Extreme Weather Events in Antarctica (ExtAnt) project. ExtAnt is a 4-year project coordinated by the British Antarctic Survey and involving five UK universities. You will work with Prof Amanda Maycock and Dr Andrew Ross to investigate the drivers of weather and climate extremes in Antarctica. You will analyse observation datasets and single forcing large ensemble simulations to establish the role of different climate drivers for Antarctic extreme events. You will investigate the role of large-scale dynamical variability in Antarctic extreme events. You will work collaboratively with scientists at the British Antarctic Survey and the other partner universities.

You will have, or be close to obtaining, a PhD in the field of Atmospheric, Ocean or Climate Science and have extensive experience of using models and observations to study weather and climate processes. You will have knowledge of atmospheric dynamics. You will have evidence of a strong commitment to publishing scientific results at an international level.

What does the role entail?

As a Research Fellow, your main duties will include:

- Working with and in support of Prof Maycock and Dr Ross to ensure the objectives and deliverables of the ExtAnt project are successfully met;
- Analysing observational datasets to establish the drivers, variability and trends of observed extreme Antarctic weather events;
- Analysing large ensemble climate model datasets to isolate the historical and future role of different climate forcings for Antarctic extremes;
- Establishing the role of large-scale dynamical processes (e.g., teleconnections, jet stream) for Antarctic extremes;
- Developing research objectives and contributing to the direction of the research project in collaboration with ExtAnt project partners;



- Generating and pursuing independent and original research ideas in the appropriate subject area;
- 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.

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 handed in at the point of application in meteorology, atmospheric or climate science or a closely allied discipline;
- A strong background in scientific programming (e.g. Python, Matlab) and data analysis;
- Extensive experience of analysing complex climate datasets including weather or climate model output;
- Excellent knowledge of atmospheric dynamics and/or climate processes;
- 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 proven track record of peer-reviewed publications in well regarded climate and atmospheric science 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.



You may also have:

- Experience of climate attribution science;
- Knowledge of weather and climate extremes;
- Knowledge of polar climates.

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.

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.

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

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

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

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

A diverse workforce

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 and ethnically diverse people; people who identify as LGBT+; and people with disabilities. 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.

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.

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.

