

Research/Senior Research Associate in Weather and Health X 2 positions

1 JOB DESCRIPTION

Faculty / School or Division: School of Engineering, Mathematics and Technology

Faculty/School or Division Address: Ada Lovelace Building, Tankard's Cl, Bristol BS8 1TW

Job Family:	Research and Teaching		
Grade/Pathway:	I or J/Pathway 2	Salary range:	Grade I: £40,704 - £45,641 Grade J: £45,641 - £51,258 per annum depending on experience
Hours of work:	35 hours per week/100% time	Contract type:	Open ended with fixed funding for 3 years (start date between Jan and March 2027)
Work pattern:	Full time	Vacancy Reference Number: ACAD108762	

1.1 Main Job Purpose

We are looking for two post-doctoral Research or Senior Research Associates to join Dr Eunice Lo's UKRI Future Leaders Fellowship team, which focuses on extreme weather, climate change, and human health.

The Futureproof project aims to develop a new field of weather-health prediction science to enhance the climate resilience of the NHS. The successful candidates will run environmental-epidemiology models and develop weather-health forecasts for short- and long-term futures, focussing on extreme events including heat, cold, and storms. They will also investigate the human health impacts of unprecedented extremes and different climate change and socio-economic scenarios. Additionally, the post-holders will engage with a wide range of external project partners across academia, the Met Office, NHS, Cabinet Office, and national public health agencies.

The post-holders will be supervised by Eunice Lo and join Dr Lo's wider Climate and Health Research Group (<https://www.climatebristol.org/research/climate-and-health-impacts/>).

1.2 Main Statement of Responsibilities

Research Responsibilities

Grade I

- Analyse weather forecast, climate observations/reanalysis, and climate model data.
- Analyse human health and NHS data, and running environmental-epidemiology models.
- Generate weather-health forecasts and climate-health projections under different scenarios.
- Lead the writing and coordination of 1 to 2 first-author papers a year.
- Collaborate with external project partners and ensure scientific outputs are useful for decision making in partner organisations.
- Disseminate research findings in academic meetings and conferences.

Grade J

- All Grade I responsibilities above, plus:
- Support the implementation of research outputs in partner organisations, including through leading or chairing policy and/or stakeholder engagement.
- Disseminate research findings beyond academic meetings and conferences, e.g., through media interviews, social media, etc.
- Contribute to the writing of, or lead, funding applications.
- Provide peer- or supervisory support to other post-doctoral researchers or PhD students in the group.

Administration Responsibilities

Grade I and J

- Support the Futureproof project manager in organising or chairing meetings or events.

Teaching Responsibilities

Grade I and J

As this role is a Pathway 2 (Research) role, there are no formally specified teaching duties required of the role-holders. However, other commitments permitting, the role-holders may be given development opportunities to undertake activities such as teaching on Masters and Doctoral programmes and/ or supervising MSc dissertations within the School of Engineering, Mathematics and Technology, as appropriate.

1.3 Relationships

Line manager: Dr Eunice Lo

Line manager to (where appropriate): N/A

1.4 Organisation Charts

The successful candidates will join Dr Lo's wider Climate and Health Research Group (<https://www.climatebristol.org/research/climate-and-health-impacts/>), which sits across the School of Engineering, Mathematics and Technology and the School of Geographical Sciences. The group is made up of a cross-section of difference disciplinary scientists, including climate scientists, data scientists, and health scientists/professionals.

1.5 Job Hazards/Safety Critical Duties (Pre-employment health screening)

N/A

2 PERSON SPECIFICATION

2.1 Relevant Experience, Skills and Knowledge

Essential (Grade I and J)

- Experience of analysing weather/climate model/observation or reanalysis output.
- Experience of working with weather/climate datasets in the NetCDF format.
- Experience or interest in linking meteorological data to human health/healthcare data.
- Strong Python programming skills.
- Evidence of scientific excellence, appropriate for their career stage.

Desirable (Grade J)

- A meteorology/climate background with a focus on health outcomes/impacts.
- Experience of running regression-based environmental-epidemiology models.
- Collaborations with scholars outside the School and University.
- Experience in working on an inter-disciplinary research project.
- Strong Python and R programming skills, and experience with github.

2.2 Relevant Qualifications

Essential (Grade I and J)

- A PhD or near completion, or equivalent research experience in an academic, industrial or clinical setting equivalent to a PhD, in meteorology or the climate and health field.

Desirable (Grade J)

- Post-doctoral research experience in meteorology or the climate and health field.

2.3 Communication and Interpersonal Skills

Essential (Grade I and J)

- Evidence of ability to contribute to peer-reviewed publications.
- Excellent written and oral communication skills.
- Ability to communicate complex information clearly, both orally and in writing.

Desirable (Grade J)

- A track record of leading peer-reviewed publications and developing an independent research profile appropriate to career stage.

- Presentations at conferences and some publications in respected journals or equivalent in the field.
- Stakeholder or policy engagement experience.

CAREER PATHWAY AND OTHER RELEVANT INFORMATION

2.1 Career Pathways

All members of academic staff have a clear career pathway involving a series of levels with distinct role profiles, each with its unique requirements. Each profile sets out what is expected of an academic at the particular level. The role profiles also set out a collection of competencies expected for each level. Promotion to the next level may occur after these competencies have been attained in conjunction with the expectations outlined in the Promotions Process and Academic Promotions Framework (APF) applicable to the role. .

The academic pathways are as follows:

Career Pathway One - academic roles that combine teaching, research and administrative duties.

Career Pathway Two - academic roles focusing on research and associated administrative duties.

Career Pathway Three – academic roles focusing on teaching and associated administrative pathways

This post is located on Pathway Two. Role Summaries setting out what is expected of an academic at each particular profile level on pathway two can be found below. Please note that an appointment may be made at any level of the pathway.

A schematic diagram of the career pathways can be found at <http://www.bristol.ac.uk/hr/grading/academic/>.

The University has two procedures for promotions depending on the level of promotion being applied for as follows:

Promotion up to Senior Lecturer / Senior Research Fellow
Promotion to Associate Professor or Professor

The procedure for Promotion up to Senior Lecturer / Senior Research Fellow describes the process for anyone on the academic career pathways and is based on the concept of readiness as determined with managers using the Academic Promotions Framework (APF). Eligibility for making a case for promotion is subject to:

1. Having a contractual expectation and meeting the performance requirements described in the Promotion up to Senior Lecturer / Senior Research Fellow process
2. Completion of a full year of service following appointment and successful completion of their Initial Service Review (ISR)

3. Meeting the expectations set out in the CREATE policy for those with teaching responsibilities (pathway 1 and 3), e.g. those seeking promotion to Senior Lecturer should achieve and have been formally notified of their Fellowship (ratified outcome) through the University's CREATE scheme before applying

The procedure for Promotion to Professor covers staff for promotion to profile level d2 (Associate Professor) and profile level e (Professor) on all pathways in the [Academic Career Pathway](#) framework.

2.1.1 Role Summaries

Research Associate (Level a)

Role holders at this level are concerned with *assisting* an individual research leader or team to conduct a particular study (or group of studies). They will generally be involved in data generation and/or collection using standard and well-defined methods developed by others. They will be working under close supervision by, and direction from, a more senior researcher, who will be ultimately responsible for the project. This may be the entry level for some staff who are expected to train and/or develop to take on more senior researcher roles. Role holders will be provided with academic and pastoral support within the department (including counselling on realistic career opportunities) and training will be available designed to develop their competences and to prepare them to take on more responsibilities associated with a higher grade.

Senior Research Associate (Level b)

Role holders at this level will be experienced and professional researchers (or have considerable professional experience) and will be specialists in a particular area or methodology, drawing upon knowledge gained from postgraduate research and/or working within a Level a role. They will be *associated* with a particular project (or projects) and will contribute ideas, and/or enhancement of techniques or methodologies. They will be expected to do some writing for dissemination outside the Department. They will still be working under supervision, but will be expected to take significant initiatives in their work and consult with the Principal Investigator over the details of the project. They may, where practical, contribute to the department's teaching, through supervision of projects, overseeing practical classes, or taking small group classes. They will be provided with academic and pastoral support within the department and training will be available designed to develop their competences (including counselling on realistic career opportunities) and prepare them to take on more responsibilities associated with a higher grade.

Research Fellow (Level c)

Role holders at this level will have substantial experience of research (normally not less than six years). They will initiate and take responsibility for some research projects and may be Principal Investigators or, where a Research Council does not permit this, act as though they were Principal Investigators. They will be involved in administration relevant to their projects (e.g. helping to prepare bids for research funding), managing other researchers and monitoring research budgets. They will be expected to be undertaking research individually and/or collectively and to be advancing the state of knowledge and understanding within their particular area of expertise. They will be publishing regularly in high quality outlets. They are likely to provide some teaching support for the department (consonant with the terms of their funding). They will be expected to be establishing a growing reputation within their particular research field and academic discipline and to be developing and demonstrating intellectual independence.

Senior Research Fellow (Level d)

Role holders at this level will have extensive experience in research and research management. They will normally be Principal Investigators, leading collaborative research bids and research teams, or driving forward innovative research themselves. They will be involved in scholastic projects (e.g. editing journals and academic books), and be making a significant leadership and/or management contribution within their department or the wider university, to be participating in national/international academic networks and conferences. They may be transferring their knowledge through some teaching and/or supervision to undergraduate or graduate students (consonant with the terms of their funding). Role holders at this level will be independent researchers and will have an established national and growing international reputation within their academic discipline generally and research field in particular.

Professorial Research Fellow (Level e)

Role holders at this level will have very extensive experience of research leadership and related management/administration. They will enjoy a wide recognition for their expertise within the academic community internationally (as evidenced by conference invitations, journal editorships, office holding in specialist groupings, associations with appropriate Research Councils etc.). They will have made recognised and significant contributions to the developing knowledge and understanding of their research area. They will already have responsibilities for the creation, initiation, development and overall management of significant research programmes. They will 'profess' their discipline within the Department, as appropriate and consonant with the terms of their funding. They may also carry significant leadership roles within the Faculty or University.

2.2 Additional Statistical Information. This can also include any other relevant contextual or specific role or team information not included elsewhere

2.3 Relevant Physical and Environmental Information**3.4 Key Contacts**

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