



UNIVERSITY OF LEEDS

## CANDIDATE BRIEF

Research Assistant in Aviation Climate Impacts, Faculty of Environment



**Salary: Grade 6 (£32,296 – £37,999 p.a. depending on experience)**

**Reporting to: Dr Alex Rap**

**Reference: ENVEE1773**

**Fixed term for up to 6 months to complete specific time limited work**

**Location: University of Leeds**

**We are open to discussing flexible and part-time working arrangements**

# Research Assistant in Aviation Climate Impacts, Faculty of Environment

## Overview of the Role

You will join a team of climate and atmospheric scientists at the University of Leeds to work on the Natural Environment Research Council (NERC) funded project Modelling Aviation Global climate Impacts from Contrails and Aerosols (MAGICA). You will work with Dr Alex Rap, Professor Dan Marsh, Dr Wuhu Feng, and our collaborators from University College London to produce future air traffic inventories and develop the Community Earth System Model (CESM) contrail cirrus scheme to simultaneously account for different aviation fuels.

## Main duties and responsibilities

- Analysing a range of existing realistic future air traffic emission scenarios consistent with the Net Zero strategy;
- Adapting Aviation Integrated Model air traffic inventories for use within the Community Earth System Model (CESM);
- Developing the CESM contrail cirrus scheme to simultaneously account for different aviation fuels;
- Writing reports, undertaking literature reviews and preparing papers for publication, with guidance as necessary;
- Working both independently and as part of a larger team of researchers and stakeholders;
- Supporting research activities, including contributing to research results and outputs and to the generation of independent and original ideas, ensuring a successful programme of investigation;
- Collating and analysing data to inform the direction and progression of the research project;
- Participating in the research group and presenting research output where appropriate;
- Contributing to the research culture of the School, where appropriate;
- Continually updating your knowledge, understanding and skills in the research field.





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.

## Qualifications and skills

### Essential

- An undergraduate or master's degree in Atmospheric Science or a closely allied discipline;
- A strong background in atmospheric science;
- Excellent knowledge of aviation impacts on climate;
- Experience of using air traffic inventories in the Community Earth System Model;
- Experience of using contrail cirrus schemes in a global climate model;
- Good interpersonal and communication skills, both written and verbal and the ability to communicate effectively with a wide range of stakeholders;
- Well-developed analytical skills;
- Good time management and planning skills, with the ability to meet tight deadlines;
- A proven ability to work well both individually and in a team;
- The ability to work unsupervised and to use your own initiative.

### Desirable

- A PhD or near completion - i.e. the initial thesis needs to have been handed in at the point of application in Atmospheric Science or a closely allied discipline;
- Experience of contributing to the writing of papers for publication.

## 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.



Please note that due to Home Office visa requirements, this role may only be suitable for first-time Skilled Worker visa applicants if they are eligible for salary concessions. For more information please visit: [www.gov.uk/skilled-worker-visa](https://www.gov.uk/skilled-worker-visa)

For research and academic posts, we will consider eligibility under the Global Talent visa. For more information please visit: <https://www.gov.uk/global-talent>

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

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

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

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

### **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.

### **Our University**

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, people who belong to a minority ethnic community; people who identify as LGBT+; and disabled people. 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.



### **Information for disabled candidates**

Information for disabled candidates, impairments or health conditions, including requesting alternative formats, can be found under the 'Accessibility' heading on our [How to Apply](#) information page or by getting in touch by [emailing HR via hr@leeds.ac.uk](mailto:hr@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 page.

