

JOB DESCRIPTION

Vacancy reference:	SRF37515
Post Title:	Lecturer in Data Assimilation
Grade:	Grade 7
School/Department:	Department of Mathematics and Statistics & the Department of Meteorology
Reports to:	Head of Department of Mathematics and Statistics
Responsible for:	To be arranged after appointment.

Purpose

To carry out research in data assimilation and to be involved in the delivery of teaching in the Department of Mathematics and Statistics and the Department of Meteorology, at both undergraduate and postgraduate level.

Main duties and responsibilities

The main responsibilities of the post are to:

- To carry out research in data assimilation, and seek funding to support your research activities;
- To build research links with operational forecasting centres, such as the Met Office and the European Centre for Medium-range Weather Forecasts (ECMWF);
- To teach, assess, and support the learning of students of the Department of Mathematics and Statistics and the Department of Meteorology at the University of Reading, including delivery of modules and project supervision;
- To supervise PhD students and/or postdocs; and
- To take a share, with other academic staff, of the administrative tasks that the departments and the School carry out in support of the above activities.
- Additional details of the typical activities an academic may undertake as part of their academic role are set out in the University Academic and Research role profiles <https://www.reading.ac.uk/human-resources/-/media/project/functions/human-resources/documents/roleprofilesacademicandresearch.pdf?la=en&hash=6AB297B4B967E15F037F6686512883A7> These cover Teaching and Learning, Research, Enterprise and Outreach and Leadership & Management.

Supervision received

The successful candidate will report to the Head of the Department of Mathematics and Statistics who will assign teaching, administrative duties, etc., in consultation with the Head of Department of Meteorology. Guidance on all aspects of the duties to be carried out will be available from the Heads of Department. The new Lecturer will also be assigned a Mentor who will provide advice during their academic probation period.

Supervision given

The post-holder will be expected to supervise PhD students and/or postdoctoral research fellows.

Contact

The successful candidate will be based at the University of Reading, with a joint position between the Department of Mathematics and Statistics and the Department of Meteorology. They will have close contact with colleagues in the Data Assimilation Research Centre (DARC, research.reading.ac.uk/met-darc) and the NERC National Centre for Earth Observation (NCEO, www.nceo.ac.uk). The post-holder will be expected to build research links with the operational centres such as the Met Office and the European Centre for Medium-range Weather Forecasts (ECMWF) and will be given access to the ECMWF computing system. The role also requires regular contact with other members of staff, as well as with students.

Terms and conditions

This post is full-time, permanent, although flexible working arrangements can be considered. There are no specified hours of work, but you will be required to work such hours as are necessary to carry out duties associated with the post. Overtime is not payable.

It will be a contractual requirement for you to achieve Fellowship status of the Higher Education Academy (HEA) within your probationary period (3 years) if you are not a member on appointment. To help you achieve this you can attend an internal HEA accredited Academic Practice Programme (APP) for staff with teaching and learning responsibilities, which is offered by the Centre for Quality Support and Development (CQSD). This is suitable for colleagues relatively new to working in a Higher Education context. Alternatively, if you have teaching experience then you may be able to use the non-taught CPD scheme (FLAIR Framework). This is an internal scheme (aligned to the UKPSF and accredited by the HEA) which allows the University to award HEA Fellowship to colleagues whose practice meets the criteria set down in the UKPSF.

This document outlines the duties required for the time being of the post to indicate the level of responsibility. It is not a comprehensive or exhaustive list and the line manager may vary duties from time to time which do not change the general character of the job or the level of responsibility entailed.

PERSON SPECIFICATION

Job Title	School/Department
Lecturer in Data Assimilation	Department of Mathematics and Statistics and the Department of Meteorology

Criteria	Essential	Desirable
Skills Required	<ul style="list-style-type: none"> • Ability to design and successfully deliver research projects. • Ability to develop and deliver high quality teaching across a range of modules and levels in mathematics and/or meteorology, • Excellent communication skills. • Ability to develop own teaching materials, methods, and approaches to teaching. • Ability to analyse students' learning experiences and share information. 	<ul style="list-style-type: none"> • Ability to inspire and communicate to a non-specialist audience
Attainment	<ul style="list-style-type: none"> • PhD in Mathematics or in a quantitative science, or equivalent research experience. • A strong international research reputation and a track record of excellent publications. 	<ul style="list-style-type: none"> • Possession of, or be working towards, a higher education teaching qualification.
Knowledge	<ul style="list-style-type: none"> • Excellent knowledge of data assimilation and related fields. 	<ul style="list-style-type: none"> • Interest in research areas relevant to the ECMWF strategy and/ or the Met Office strategy. • Interest in research areas relevant to the National Centre for Earth Observation. • Interest in intradisciplinary and interdisciplinary collaborations in support of existing strengths within the School of Mathematical, Physical and Computational Sciences,
Relevant Experience	<ul style="list-style-type: none"> • An excellent research record in data assimilation, evidenced by publications of international standing. 	<ul style="list-style-type: none"> • University teaching in mathematics and/or meteorology or related

		<p>subjects to undergraduate or postgraduate students.</p> <ul style="list-style-type: none"> • Proven ability to build research collaborations. • Experience of supervising PhD students. • Success in securing research funding.
Disposition	<ul style="list-style-type: none"> • Commitment to University level education and research and to working effectively and collaboratively with colleagues in the Department and wider University. • Dedication to high-quality teaching and learning. • Ability to work supportively with students. 	

<p>Completed by: Amos S. Lawless</p>	<p>Date: 4/4/22</p>
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