

# Research Fellow in Multi-hazards

Department	Civil and Environmental Engineering ( <a href="http://www.strath.ac.uk/civeng/">www.strath.ac.uk/civeng/</a> )		
Faculty	Faculty of Engineering ( <a href="http://www.strath.ac.uk/engineering/">www.strath.ac.uk/engineering/</a> )		
Staff Category	Research	Reference No	485961
Reports To	The Head of School/Department, through Dr Christopher White	Grade:	8*
Salary Range:	£43,414 - £53,353	Contract Type:	Fixed Term (18 months) ^
FTE:	1 (35 hours/week)	Closing Date	24/02/2023

## Job Advert

We are seeking a Research Fellow to join the Centre for Water, Environment, Sustainability & Public Health (<https://www.strath.ac.uk/research/subjects/civilenvironmentalengineering/environment/>) within the Department of Civil and Environmental Engineering. The Research Fellow will play a leading role in the project MEDiate, which has recently been funded by the Horizon Europe programme of the European Commission. MEDiate aims to develop a decision-support system for disaster risk management by considering multiple interacting natural hazards and cascading impacts using a novel resilient-informed, service-oriented and people-centred approach that accounts for forecasted modifications in the hazard (e.g., climate change), vulnerability/resilience (e.g., aging structures and populations) and exposure (e.g., population decrease/increase).

The Research Fellow will co-lead the work package “Assessment of current and future multi-hazard interactions and cascading impacts”, which is being led by Dr Christopher White (University of Strathclyde) in collaboration with partners across Europe. In addition, the Research Fellow will be responsible for creating new multi-hazard indicators, scenarios and metrics that will support risk-based assessments for the management of complex hazards, together with providing close support to the planned testbed applications of the project’s developments and contributing to other aspects of the MEDiate project where required, e.g., through reviewing deliverables.

To be considered for the role, you will have a PhD in the analysis and/or assessment of natural hazards (e.g., floods, landslides) and/or equivalent relevant industrial experience, and should also have experience of multi-hazard risk assessment and/or climate change science. The role will require the ability to draft and review technical project reports and journal articles therefore effective writing skills are essential. The post is based at the University of Strathclyde and involves travelling to regular meetings around Europe. You will have a body of published research in high quality publications demonstrating standards of excellence. You will have an ability to plan and organise research programmes, to ensure successful completion and you will have experience of planning and organising workloads, including the ability to supervise and delegate work. You will have an ability to work within a team environment and to lead teams and excellent interpersonal and communication skills, with the ability to listen, engage and persuade, and to present complex information in an accessible way to a range of audiences.

Whilst not essential for the role, applications are welcomed from candidates with experience of multi/inter-disciplinary research, experience of student assessment activities and/or a track record in knowledge exchange related activities.

\*Whilst a Research Fellow is ideally sought for the position, applications from less-experienced Researchers are welcomed. In such circumstances, the appointment will be made at Research Associate level (RS07 salary scale: £34,308 - £42,155) and duties will be adjusted to reflect the grade of the post.

^This position has a fixed-term contract of 18 months, however this may be extended by a further 6 months subject to funding and performance.

## Job Description

### Brief Outline of Job:

To lead high-quality research within the MEDiate project, particularly concerning the assessment of multiple natural hazards and associated risks; to pursue and establish an independent and high quality research programme, including securing research contracts and funding; to disseminate research results via publications in peer reviewed journals. In addition, where appropriate, to manage a research team (students); to engage as appropriate in relevant teaching, professional and knowledge exchange activities; and to carry out administrative tasks assigned by the Head of Department/School.

### Main Activities/Responsibilities:

1.	Co-lead the MEDiate work package “Assessment of current and future multi-hazard interactions and cascading impacts”
2.	Create new multi-hazard indicators, scenarios and metrics that will support risk-based assessments for the management of complex hazards, with guidance from senior colleagues.
3.	Plan and manage own workload, and the work of others as required, and seek additional funding beyond the duration of the MEDiate project.
4.	Conduct independent and collaborative research in line with the deliverables of the MEDiate project, including determining appropriate research methods and contributing to the development of new research methods.
5.	Collaborate with other partners of the MEDiate project in order to develop project outcomes.
6.	Lead technical and steering group meetings; give presentations on research progress, including responding to technical questions in relation to the progress and content of the work presented.
7.	Participate in and develop external networks to foster research collaborations, to inform the development of research objectives and to identify potential sources of funding.
8.	Write up research work for publication, individually or in collaboration with colleagues, and disseminate results as appropriate to the discipline by, for example, peer reviewed journal publications and presentation at conferences.
9.	Supervise student projects related to MEDiate, providing direction, support and guidance to students as required.
10.	Carry out Department/School, Faculty and/or University administrative and management functions, for example through membership of committees.
11.	Engage in continuous professional development.

## Person Specification

### Educational and/or Professional Qualifications

(E=Essential, i.e. a candidate must meet all essential criteria to be considered for selection, D=Desirable)

E1 Good honours degree and PhD (or, exceptionally, equivalent professional experience) in the analysis and/or assessment of natural hazards (e.g., floods, landslides)

### Experience

E2 Sufficient breadth or depth of knowledge in the relevant discipline/s of analysis and/or assessment of natural hazards to contribute to research programmes and to the development of research activities

E3 Experience of planning and organising workload, including the ability to supervise and delegate work

D1 Experience of multi-hazard risk assessment and/or climate change science

D2 Experience of teaching and/or supervision at undergraduate and/or postgraduate levels

### Job Related Skills and Achievements

E4 A body of published research in high quality publications demonstrating standards of excellence

E5 Ability to work within a team environment and to lead teams

D3 Experience developing research/knowledge exchange proposals and to attract funding and research students, on risks from natural hazards, including relevant prior experience of contributing to funding applications or strategic business case drafting and development

D4 Track record in knowledge exchange related activities

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D5 Ability to program in language such as Matlab and/or Python

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### Personal Attributes

E6 Excellent interpersonal and communication skills, with the ability to listen, engage and persuade, and to present complex information in an accessible way to a range of audiences

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### Other Relevant Factors

E7 Willing and able to travel internationally for technical meetings

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## Application Procedure

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Applicants are required to complete an application form including the name of three referees who will be contacted before interview without further permission, unless you indicate that you would prefer otherwise. Applicants should also submit a Curriculum Vitae and a covering letter detailing the knowledge, skills and experience you think make you the right candidate for the job. Applicants should also complete the Equal Opportunities Monitoring Form.

## Other Information

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Further information on the application process and working at Strathclyde can be found on our website (<http://www.strath.ac.uk/hr/workforus>).

Informal enquiries about the post can be directed to Dr Christopher White, Head of the Centre for Water, Environment, Sustainability & Public Health (email: [chris.white@strath.ac.uk](mailto:chris.white@strath.ac.uk), tel: +44 (0)141 548 4366) or Dr John Douglas, Senior Lecturer (email: [john.douglas@strath.ac.uk](mailto:john.douglas@strath.ac.uk), tel: +44 (0)141 548 4569).

### Conditions of Employment

Conditions of employment relating to the Research staff category can be found at: [Conditions of Employment](#).

### Rewards and Benefits

Our staff have access to a wide range of outstanding benefits that include financial rewards, family friendly and wellbeing benefits and career development opportunities, details of which can be found [here](#).

### Probation

Where applicable, the successful applicant will be required to serve a 9 month probationary period.

### Pension

The successful applicant will be eligible to join the Universities' Superannuation Scheme. Further information regarding this scheme is available from [Payroll and Pensions](#).

### Relocation

Where applicable, the University offers a relocation package to support new employees who meet the eligibility criteria. The relocation package is offered as a contribution towards costs incurred, and is designed to be flexible, allowing staff to use the financial support available in the way that will be most helpful to them. Further details are outlined in the Relocation Policy.

### Interviews

It is intended that formal interviews for this post will be held on 10/03/2023.

### Equality and Diversity

We value diversity and welcome applications from all sections of the community.

The University currently holds a Bronze Athena SWAN award, recognising our commitment to advancing women's careers in science, technology, engineering, maths and medicine (STEMM) employment in academia.

### University Values

The University's Values capture what we're all about: who we are, what we believe in and what we stand for. [Our Values](#) have been derived from how we act and how we expect to be treated as part of Strathclyde.

