



THE POST

College:	College of Engineering, Mathematics and Physical Sciences
Post:	Research Impact Associate in Sustainable Drainage Systems (SWEEP)
Reference No:	S57786
Grade:	E
HERA:	ARF
Reporting To:	Professor Guangtao Fu

The above part-time (0.5FTE) post is available on a fixed term basis from 1st October 2018 to 19th May 2020.

Job Description

The University of Exeter is leading an exciting new project in partnership with Plymouth University and Plymouth Marine Laboratory, the South West Partnership for Environment and Economic Prosperity (SWEEP) funded by the Natural Environment Research Council (NERC). SWEEP Impact Fellows will have a unique opportunity to develop research facing skills within a leading research intensive University, whilst also working directly with businesses, policy makers and community groups to deliver impact and real world change. SWEEP is seeking to recruit the research leaders of tomorrow, who are passionate about delivering impact from research.

As a SWEEP Impact Fellow at the University of Exeter, you will be expected to work closely with Pell-Frischmann and several other stakeholders to deliver impact project entitled "Assessment of potential for large scale implementation of sustainable drainage systems (SuDS) in the South West". Increasing population, urbanisation and climate change are putting additional pressure on existing sewer infrastructure by reducing their capacity to manage surface water runoff hence increasing the risk of flooding and pollution of the environment. These issues are of particular importance in the South West region which has most of UK's natural capital. The concept behind the SuDS is to mimic natural systems to drain away surface water run-off through collection, storage and cleaning before releasing it back into the environment. The overall aim of the project is to **develop an innovative, planning methodology and a tool for strategic level prioritisation of areas for SuDS implementation.**

Main purpose of the job:

The key project activities include:

1. Detailed assessment of the existing SWAT methodology and the tool developed by Pell-Frischmann, accompanied by related literature review;
2. Development of an improved surface water management methodology;
3. Development of an improved software tool based on the developed methodology, including a new, user friendly Graphical User Interface;
4. Collection of data (open and proprietary) and testing, validation and demonstration of the methodology and the tool on selected case studies;
5. Assessment of the potential for large scale implementation of SuDS in the South West with associated costs and benefits.

This project will allow you: to be part of a team of SWEEP Impact Fellows at the University of Exeter; to learn new things related to the Sustainable Drainage Systems; to conduct applied research to translate academic science into environmental, economic and social benefits to the South West of the UK; to work with local businesses, authorities, policymakers and landowners with the decisions they need to make in relation to how they make investments, manage or utilise the natural environment.

Main duties and accountabilities:

1. To undertake research as appropriate to the field of study including:
 - Writing up research work for publication;
 - Developing research objectives and proposals for own or joint research;
 - Making presentations at national and international conferences and similar events;
 - Dealing with problems which may affect the achievement of research objectives and deadlines;
 - Analysing and interpreting the results of own research and generating original ideas based on outcomes;
 - Using new research techniques and methods;
 - Using initiative and creativity to identify areas for research, developing new research methods and extending the research portfolio;
 - Using creativity to analyse and interpret research data and draw conclusions on the outcomes.
2. To contribute to teaching and to be involved in the assessment of student knowledge including assisting in the supervision of student projects and in the development of student research skills.
3. To work in collaboration with colleagues as appropriate to the field of study including:
 - Contributing to collaborative decision making within the research group;
 - Contributing to the production of collaborative research reports and publications.
 - Preparing papers and presenting information on research progress and outcomes to bodies supervising research, e.g. steering groups.
4. To communicate complex information, orally, in writing and electronically.
5. To prepare proposals and applications to external bodies, e.g. for funding and contractual purposes
6. To contribute to the planning of research projects.
7. To use research resources, laboratories and workshops as appropriate and to take responsibility for reducing hazards and for the health and safety of others. Where appropriate, will also be responsible for conducting risk assessments.
8. To monitor research budgets as appropriate.
9. To engage in continuous professional development and to be responsible for continually updating knowledge and understanding in field of study or specialism and for developing skills.

This job description summarises the main duties and accountabilities of the post and is not comprehensive: the post-holder may be required to undertake other duties of similar level and responsibility. Please visit the Human Resources website to view the Research Fellow role profiles.

Person Specification

Competency	Essential	Desirable
Attainments/Qualifications	PhD (or nearing completion) or equivalent qualification/experience in a related field of study.	
Skills and Understanding	Sufficient knowledge in the discipline and of research methods and techniques to work within established research programmes.	Evidence of research activity and published research.
Prior Experience	Understanding of health and safety	Experience of undergraduate teaching
Behavioural Characteristics	Excellent written and verbal communication skills. Able to communicate material of a specialist or highly technical	

	<p>nature.</p> <p>Able to manage research and administrative activities and to balance the competing pressures of research and administrative demands and deadlines.</p> <p>Able to liaise with colleagues and students.</p> <p>Able to build contacts and participate in internal and external networks for the exchange of information and collaboration.</p> <p>Able to identify potential sources of funding.</p> <p>Actively participate as a member of a research team</p> <p>Engage in continuous professional development.</p> <p>Understand equal opportunity issues as they may impact on areas of research content</p> <p>Where appropriate to the role, willingness to undergo training in order to conduct risk assessments</p>	
Circumstances	Willing to work flexibly to achieve project demands	

Informal Enquiries

Before submitting an application you may wish to discuss the post further by contacting Prof Guangtao Fu, Associate Professor of Water Infrastructure System at the University of Exeter, telephone (01392 723692) or email g.fu@exeter.ac.uk

Terms & Conditions

Our Terms and Conditions of Employment can be viewed [here](#).

Further Information

Please see our [website](#) for further information on working at the University of Exeter.