

Research Fellow Earth Observation

Apply

Post Details

Full time

Fixed term for 18 months

The closing date for applications is midnight on Sunday 03 April 2022

Interviews are expected to take place on Wednesday 13 April 2022

There is an expectation that work will be undertaken in the UK

For the purposes of sponsorship, this is a postdoctoral role under SOC code 2119

The University of Stirling recognises that a diverse workforce benefits and enriches the work, learning and research experiences of the entire campus and greater community. We are committed to removing barriers and welcome applications from those who would contribute to further diversification of our staff and ensure that equality, diversity and inclusion is woven into the substance of the role. We strongly encourage applications from people from diverse backgrounds including gender, identity, race, age, class, and ethnicity.

The Post

The University of Stirling invites applications for a Research Fellow in Earth Observation to join the Earth and Planetary Observation Science Research Group. We are looking for a candidate with expertise in remote sensing of inland, coastal and marine environments to lead an assessment of existing and emerging end-user and stakeholder needs with a particular focus on Copernicus water services (as part of the H2020 Water-FoRCE project).

The successful candidate will be expected to engage with the international scientific community, policymakers and various water-related sectors to assess their needs and expectations with respect to Earth observation data and services.

In addition, the postholder will be expected to play a central role in supporting the development of a roadmap for the next Copernicus services for inland waters.

Description of Duties

- Engage and work with the international scientific community, stakeholders from industry, and policymakers across various water-related sectors by administrating surveys and convening meetings and workshops to inform future Earth observation services for water
- Lead the authoring of projects reports and deliverables, write or contribute to publications, present research findings at scientific or industry-related meetings, and disseminate research to non-scientific audiences through appropriate media and forums
- Contribute to proposals to secure funding, including drafting grant proposals and planning for future proposals from internal and external bodies to support future research related to the existing post
- Have a willingness to travel extensively within the UK and internationally for scientific meetings, sometimes independently
- Any other project-related duties, commensurate with the grade of the post
- Contribute to other projects and collaborate with academic colleagues, across disciplines, on areas of shared research interest and to ensure that research advances inform faculty teaching effort

Essential Criteria

Qualifications:

- PhD in an appropriate discipline such as remote sensing, geophysics or environmental engineering/ science or aquatic sciences

Knowledge, Skills & Experience:

- Knowledge of remote sensing techniques, Copernicus and their application to the monitoring of inland, coastal, or marine environments
- Developing ability to conduct individual research work and to disseminate results
- Experience of engaging and working with stakeholders
- Ability to routinely communicate complex and conceptual ideas to those with limited knowledge and understanding as well as to peers using high level skills and a range of media
- Problem solving skills including an ability to take a flexible and pragmatic approach

Personal Qualities:

- Evidence of goal orientation and achievement
- Positive, collegiate attitude to work life and working with others
- Self-motivated, ability to use initiative and potential for independent thought and working
- Time management skills including ability to prioritise workload
- Trustworthy and reliable

Desirable Criteria

- A suitable postgraduate degree with extensive professional experience in the operational implementation and/or research of remote sensing systems with a particular emphasis to their application to aquatic environments
- Experience in using SAR for one or more of: monitoring surface water state, detection of marine assets or assessment of coastal morphology
- Experience in the integration of data from remote sensing, *in situ* sensors and/or models
- Familiarity with standard methods for the laboratory analysis of water samples
- Experience of supervising colleagues
- Experience of managing a small research project or identified parts of a large project

Behaviours and Competencies

The role holder will be required to evidence that they can meet the qualities associated with the following behavioural competencies, as detailed within the AUA Competency Framework.

- Managing self and personal skills**
Being aware of your own behaviour and mindful of how it impacts on others, enhancing personal skills to adapt professional practice accordingly.
- Delivering excellent service**
Providing the best quality service to external and internal clients. Building genuine and open long-term relationships in order to drive up service standards.
- Finding solutions**
Taking a holistic view and working enthusiastically to analyse problems and to develop workable solutions. Identifying opportunities for innovation.
- Embracing change**
Being open to and engaging with new ideas and ways of working. Adjusting to unfamiliar situations, shifting demands and changing roles.
- Using resources effectively**
Identifying and making the most productive use of resources including people, time, information, networks and budgets.
- Engaging with the wider context**
Enhancing your contribution to the organisation through an understanding of the bigger picture and showing commitment to organisational values.
- Developing self and others**
Showing commitment to own ongoing professional development. Supporting and encouraging others to develop their professional knowledge, skills and behaviours to enable them to reach their full potential.
- Working together**
Working collaboratively with others in order to achieve objectives. Recognising and valuing the different contributions people bring to this process.
- Achieving Results**
Consistently meeting agreed objectives and success criteria. Taking personal responsibility for getting things done.

About Us

The Faculty of Natural Sciences (FNS) was formed in August 2016 and encompasses the Divisions of Biological and Environmental Sciences, Computing Science and Mathematics, Psychology and the Institute of Aquaculture. The FNS is a distinctive academic arena where new fundamental understandings of the complex and challenging inter-relationships between human behaviours, technologies, biological, environmental and aquatic systems are created, explored and tested. The focus of our research addresses key questions around the resilience of society and the environment. Results of REF2014 confirmed that our research is regarded as world-leading and internationally excellent. Our research is supported through UK Research Councils, the European Union, a range of research charities, statutory agencies and third sector organisations, industry and private enterprises. We work with industry and public service organizations both at home and overseas to achieve direct and positive outcomes for society across a range of critical problems. Recent success in the 2018 City and Region Deal from UK and Scottish Governments is leading to a substantial investment in new infrastructure as a result of Faculty driven initiatives including: a £17 million investment for a new Institute of Aquaculture and Global Aquatic Food Security facility; and a £22 million investment for Scotland's International Environment Centre.

Biological and Environmental Sciences

The strength of Biological and Environmental Sciences at Stirling ES lies in our unique interdisciplinary focus on the interface between people and the environment, which positions us well to exploit growing funding opportunities and to develop strong student interest in environmental and ecological systems science, management and solutions delivery. Our research interests are broad and cluster around four key themes of water, carbon, biodiversity and society. Our research activities are led by 38 principal investigators who seek to understand the fundamental processes driving the evolution and maintenance of the natural environment and its interactions with human populations. We develop and exploit a range of technologies from Earth observation through to molecular techniques to understand how environments function and ecosystems are impacted from local to global scales and over annual to millennial timescales. We deliver the evidence to transform the management of conflicts between the environment, ecosystems and society and predict and mitigate the future impacts of anthropogenic change and natural hazards. Our findings integrate science, policy and practice; they are used to inform national and international policy makers and practitioners in conservation and environmental regulation, planning and management. Our research and impacts are found in all continents of the world and position us as a leading institution in **Environmental Protection** and **Biological Conservation**. The recent City Deal investment from UK and Scottish Governments in Scotland's International Environment Centre is a catalyst for driving our mission forward to work sustainably with the environment to promote economic and societal growth within the UK and globally.

The University

Ranked among the UK's 40 best universities in the Complete University Guide, the University of Stirling is committed to providing education with a purpose and carrying out research which has a positive impact on communities across the globe – addressing real issues, providing solutions and helping to shape society. Stirling is ranked fifth in Scotland and 40th in the UK for research intensity (Research Excellence Framework). Interdisciplinarity in its approach, Stirling's research informs its teaching curriculum and facilitates opportunities for knowledge exchange and collaboration between staff, students, industry partners and the wider community.

The University of Stirling is ranked among the top 20 UK universities for student satisfaction (National Student Survey) and top 10 in the UK for postgraduate student experience (Postgraduate Taught Experience Survey), and has an overall five-star rating in the QS Stars University Ratings.

More than 17,000 students study with the University of Stirling globally, with over 120 nationalities represented on its scenic central Scotland campus alone. The campus – also home to 1,700 staff – has its own loch and castle, and a recent multi-million-pound redevelopment has delivered modern, flexible, and digitally connected study and social spaces at the heart of campus, including enhanced student support and retail and catering outlets.

The University has twice been recognised with a Queen's Anniversary Prize – the first for its Institute for Social Marketing and Health (2014) and the second for its Institute of Aquaculture (2019). Stirling is Scotland's University for Sporting Excellence and its recently redeveloped world-class facilities provide the perfect training environment for the University's sports scholars – many of whom compete at the highest level, including at the Olympics and Commonwealth Games – and for students, staff, and the wider community.

As a signatory to the £214 million Stirling and Clackmannanshire City Region Deal, the University is driving productivity and inclusive growth across the Forth Valley, and beyond. Through pioneering collaborative solutions to global challenges, researchers are putting innovation, skills, and partnership at the heart of a sustainable economic recovery.

The University offers great benefits such as generous annual leave and membership of the [Universities Superannuation Scheme](#). Additionally staff can benefit from a reduced membership rate at the University's excellent Sport Centre facilities.

A full list of FAQs can be found [here](#), we recommend you read these before making your application.

Please ensure that you check your email account junk folder as your email provider may flag emails sent to you as suspected spam.

Terms and conditions of this post can be found [here](#).

After the closing date, this job advert will no longer be available on the University of Stirling website therefore please keep a copy for your records.

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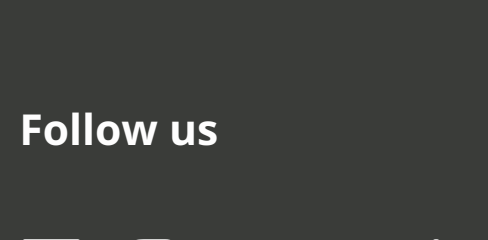
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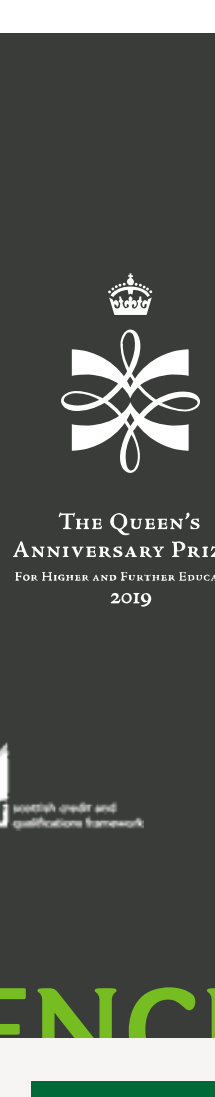


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