

**Faculty of Science
School of Environmental Sciences**

Senior Research Associate • Ref: RA1616

The Post

The TerraMaris project is a major project between the UK and Indonesia to improve our understanding of the meteorological and oceanographic processes that control weather and climate over the Maritime Continent region (the archipelago of islands and shallow seas between the Indian and Pacific Oceans).

The first phase of TerraMaris is an observational field campaign on and around the island of Java from November 2019 to February 2020. This will involve oceanographic observations using ocean gliders and a surface autonomous vehicle (SAV), land-based measurements (including meteorological radar and radiosonde balloon ascents) on Java and Christmas Island in the Indian Ocean, and the deployment of the UK research aircraft to Java. The second phase of TerraMaris will involve the production and analysis of a hierarchy of coupled ocean-atmosphere model simulations.

The post holder will contribute to the project by: assisting in deploying, operating and piloting the ocean gliders and subsequent analysis of the glider and SAV data; assisting in radiosonde observations on Christmas Island; gathering and analysis of supplementary oceanographic observational data sets; evaluation of the oceanographic observations against the hierarchy of coupled model simulations that will be produced in TerraMaris, to understand the role of ocean-atmosphere processes on weather and climate.

Duties, tasks and responsibilities include:

- Assisting in oceanographic fieldwork on Christmas Island, to deploy and recover ocean gliders in the Indian Ocean, and to run 24-hour radiosonde operations.
- Assisting in piloting ocean gliders throughout their mission.
- Quality control and post processing of ocean glider data.
- Acquisition and processing of other available oceanographic and meteorological data sets.
- Evaluation of oceanographic observations against coupled ocean-atmosphere model simulations to understand the role of ocean-atmosphere processes on tropical weather systems.
- Liaise with the TerraMaris project with funded partners at University of Leeds, University of Reading, to ensure optimal work plans and

collaborations with other groups. This will be via project meetings (which may need to be organised) and electronic communication.

- Undertake training (including experiential training) in the use of ocean gliders, and the use of scientific computing and statistical tools as required for the project.
- Present these results and contribute to the preparation and writing of research papers.
- Any other duties commensurate with the grade of the post as directed by the Principal Investigator.

The precise duties will be agreed in discussion with the PI.

The School

The School of Environmental Sciences is one of the largest and longest established academic departments in Europe to focus on the study of the global environment. We have 240 research, teaching and support staff in the fields of geosciences, marine and atmospheric sciences, climate sciences, environmental biology, social sciences and economics. Our success is built on high achievement within these disciplines, coupled with enthusiasm for collaboration between them and high ambitions for deepening integration.

In line with its strong interdisciplinary ethos, the School has no formal sectors or subdivisions by discipline, and research collaborations occur within and between the subject groupings mentioned above, together with common membership. Some elements of the School are organised into centres, which also have strong collaborations and joint membership across their loose boundaries. The School's outreach activity includes the weather forecasting company, WeatherQuest, the Community Carbon Reduction Project, CRed, and the HEIF-funded Carbon Connections programme, promoting technological innovations for carbon reductions. These latter organisations have recently combined to form the Adapt Low Carbon Group.

The School has a range of geophysical equipment for use in gravity, magnetic, electrical and seismic survey work. Computing facilities available to the university research community include: the High Performance Computing Cluster; Linux support and provision of standardised Linux Desktop OS.

The School runs a number of Master's degree programmes, including MSc programmes in Environmental Sciences, Climate Change, and Environmental Assessment and Management (full-time and part-time). BSc programmes include Environmental Sciences, Environmental Earth Sciences, Environmental Geophysics, Geography, and Meteorology and Oceanography (with variants offered with a year in a number of other countries, or with a year in industry). One BSc degree programme, Environmental Geography and International Development, is taught jointly with other Schools.

Research Excellence Framework

In the 2014 Research Excellence Framework national assessment, the Faculty of Sciences at UEA submitted most of its staff to six units of assessment. Overall, 86% of our outputs, 83% of our research impact, and 96% of our research environment were judged to be internationally excellent or world leading.

The School of Environmental Sciences retained its world-leading reputation following the findings of the 2014 Research Excellence Framework national assessment, in which it was ranked in the top ten, and achieved the highest score in the UK for the quality of its research impact. 100% of the School's research environment was judged to be world-leading or internationally excellent.



The University of East Anglia is proud of the increasing diversity of its campus and works with staff, students and organisations around Norwich, Norfolk, regionally and nationally, to achieve its aim of being an inclusive place for study and work. The University is strongly committed to the Athena SWAN principles and is the proud holder of an institutional Bronze Athena SWAN award. This Award recognises and celebrates good practice in recruiting, retaining and promoting women in science, technology, engineering, mathematics and medicine (STEMM) in higher education.

In May 2015 the charter was expanded to recognise work undertaken in arts, humanities, social sciences, business and law (AHSSBL), and in professional and support roles, and for trans staff and students. The charter now recognises work undertaken to address gender equality more broadly as well as barriers to progression that affect women.

The School of Environmental Sciences is committed to the principles of the Athena SWAN charter; and we have obtained our own School level [Silver Award](#).

Further information about Equality and Athena SWAN at the University of East Anglia can be found here <https://www.uea.ac.uk/equality/athenaswan>

Our School aims to provide the facilities and the working environment that allows all staff and students to contribute fully, to flourish and to excel. Our School of Environmental Sciences Athena SWAN Committee is committed to recognising and addressing inequality and to promoting a culture that supports diversity and encourages women's wider participation and representation across the School's portfolio of activities. We recognise the importance of supporting women at all stages of their careers, and we proactively support women in applications for promotion, pay awards, flexible working, training and career development in both research and teaching.

The UEA campus has a range of facilities to promote family-friendly working. We have a fully equipped dedicated baby change and feeding room with hand washing facilities, baby changing station, fridge, microwave, bottle and food warmer, and a medical bed for rest purposes. Baby changing facilities are also available in our campus coffee shop. The campus has a medical centre, a dental practice, and a nursery offering Ofsted-rated 'Outstanding' day care for children from three months until school age in purpose built surroundings with large outside play spaces.

We also support a range of flexible working initiatives, designed to promote a healthy work-life balance as well as supporting staff returning from parental leave and career breaks.

Many other aspects of the University contribute to the overall quality of life and work for our staff at UEA, further details can be found here <https://lred.uea.ac.uk/web/working-life/home>

Informal Discussions

For an informal discussion please contact Professor Adrian Matthews, (Tel: 01603 593733 or email: a.j.matthews@uea.ac.uk).

Person Specification

The person specification for this post is attached as Appendix A.

GENERAL

Salary

Salary will be £33,199 per annum, on Point 30 of Grade 7 on the single salary spine. The normal expectation is that starting salary will be at the minimum of the advertised salary scale.

Starting date

The full time post is for a fixed term of 41 months or until 31 March 2023, whichever is sooner and commences 1 September 2019, or as soon as possible thereafter.

Terms and Conditions of Appointment

Full details of terms and conditions of employment for Research and Analogous Staff will be made available to the candidate to whom the appointment is offered.

Annual Leave Entitlement

There is an annual holiday entitlement of six weeks plus statutory (8 days) and customary (6 days) holidays, pro rata for part time.

Superannuation

The post is superannuable under the Universities Superannuation Scheme.

Proof of Qualifications

The person specification for this post lists qualifications that are essential and/or desirable and you may hold some or all of these qualifications. Please note that if you are offered the appointment you will be asked to provide original certificates of these educational and professional qualifications. Please **DO NOT** provide these with your application.

Entitlement to Work in the United Kingdom

If you are shortlisted for interview you will be asked to bring to interview original documentary evidence of permission to work in the UK in line with a list of acceptable documents which we will provide to shortlisted candidates when invited for interview. Please **DO NOT** provide this with your application.

This vacancy is eligible for sponsorship under Tier 2 and, where appropriate, the University will apply for a Certificate of Sponsorship. Non-EEA workers who do not have residency status within the UK and will require entry clearance or further leave to remain should familiarise themselves with the [Tier 2 \(General\) Guidance](#) .

Occupational Health Assessment

Appointment will be subject to a satisfactory Occupational Health Assessment to be carried out by the University's Occupational Health Service.

APPLICATION AND RECRUITMENT PROCESS

To apply for this vacancy, please follow the online instructions at: <https://myview.uea.ac.uk/webrecruitment/>

Your completed application and CV should be submitted by **28 May 2019**.

All communication with candidates regarding their applications will be by email. Please check your emails (and spam folder) regularly.

Please note that feedback will not normally be provided to those applicants who are not shortlisted for this post.

Equal Opportunities Monitoring Form

Please note that an Equal Opportunities Monitoring Form must be completed and returned with ALL applications, whether submitted by post or by email. If submitted by email, the Equal Opportunities Monitoring Form must be sent as a separate document/attachment to the Application Form.

The Equal Opportunities Monitoring Form will be detached from the received application before short-listing takes place and will not form any part of either the short-listing or decision making process.

Referees

In naming referees in your application, you are requested to give only those who can immediately be approached and one of these must be your current employer, or if not employed your most recent employer.

Interviews

It is anticipated that interviews and presentation will take place in mid-June 2019 and candidates who have not heard by 30 June 2019 should assume their application has been unsuccessful.

Successful shortlisted candidates may be notified of their interview times by telephone and/or email and it is therefore essential you include both of these in your application.

Candidates should note that travel and incidental expenses incurred in attending the interview will not be reimbursed.

This document is available in alternative formats e.g. large print, disc and on-line. If you need this document in an alternative format please contact us on 01603 593034, fax 01603 593522, or email hr@uea.ac.uk

PERSON SPECIFICATION

Title: Senior Research Associate Ref: RA1616 School: ENV		Edited by: AM Date: 04/19
Criteria	Essential	Desirable
<i>Education, Experience and Achievements</i>	<ul style="list-style-type: none"> • PhD or equivalent research experience in physical oceanography, meteorology or climate science. • Track record of authoring/co-authoring oceanography, meteorology or climate publications. 	<ul style="list-style-type: none"> • Experience operating ocean gliders and analysing glider data.
<i>Skills and Knowledge</i>	<ul style="list-style-type: none"> • Demonstrable communication skills in English language. • Excellent scientific writing and presentation skills. • Good time management and organisational skills. • Good interpersonal skills. Initiative in planning research. • Detailed subject knowledge in the area of research. • Able to develop and test programs in either Python, Matlab, FORTRAN, IDL or similar. 	<ul style="list-style-type: none"> • Initiative in planning research. • Able to use scientific computing tools for oceanographic and model data analysis (e.g., Python, Matlab). • Familiarity with common science data formats (e.g., netcdf, HDF).
<i>Personal Attributes</i>	<ul style="list-style-type: none"> • Able to work independently and as part of a team to achieve project goals. • Well organised, methodical approach. • Self-motivated with attention to detail. • Under guidance, able to draft scientific 	<ul style="list-style-type: none"> • Ability to give oral presentations at conferences & meetings.

	<p>reports/papers for publication and prepare presentations.</p> <ul style="list-style-type: none">• Ability to contextualise own findings and to communicate them effectively.	
<i>Special Circumstances</i>		