

# RESEARCH ASSOCIATE

FACULTY OF SCIENCE

SCHOOL OF ENVIRONMENTAL

SCIENCES

RA2396

**CANDIDATE BROCHURE**



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# WHAT MAKES UEA SO SPECIAL?

The University of East Anglia is a publicly funded major UK research and teaching university. It was built to embody a radical new vision for higher education, where interdisciplinarity is crucial and excellence in both research and teaching is valued. UEA consistently ranks within the top quarter of universities in the UK for the quality of research and teaching.

As a major regional employer and cultural centre, we take our regional civic responsibilities very seriously and have kept our sights on the people and place we call home. In fact, we launched our University Civic Charter in October 2023; created from in-depth community engagement, renewing our commitment to the region as part of our 60th anniversary.

There are many things which make UEA special, not least of which is the community of staff and students that work and study here. UEA includes three Nobel prize winners, including Sir Paul Nurse and Sir Michael Houghton, and many fellows of the Royal Society and British Academy amongst our alumni and current staff.

Our campus is home to Sir Denys Lasdun's iconic brutalist architecture set in hundreds of acres of beautiful country park that includes a large broad (lake). In the spirit of Lasdun's ambition to inspire an anatomy of ideas, today, UEA is tackling some of the key challenges of the changing world. UEA's research combines disciplines

and breaks new boundaries across its priority research themes of climate, creative and health.

UEA is the place where global warming was first documented. Since the 1970s, UEA's Climatic Research Unit, and more recently Tyndall Centre for Climate Change (Headquarters hosted at UEA), have played a pivotal role in developing temperature records and climate models, contributing to the understanding of climate change, and informing global policy. Many UEA scientists have played significant roles in the Intergovernmental Panel for Climate Change (IPCC), which was jointly awarded the 2007 Nobel Peace Prize for its efforts to increase public knowledge of anthropogenic climate change. Environmental Science and Global Studies at UEA continue to be a major powerhouse for research and teaching.

UEA is widely regarded as a pioneer in creative writing, having established the UK's first Creative Writing Masters programme in 1970. This renowned programme has since attracted and produced numerous successful writers, including Booker Prize winners such as Ian McEwan and Anne Enright, and Nobel Prize Winner Sir Kazuo Ishiguro. In recent years, UEA academics have played a pivotal role in the discovery and presentation of the Gloucester Royal shipwreck (Norfolk's Mary Rose). Our iconic Sainsbury Centre for Visual Arts is a major museum and arts research facility.



Health research at UEA not only embraces the Faculty of Medicine and Health but draws in research from both social and natural sciences. Research under this theme has made major contributions in the fields of healthy ageing, epidemiology and involving citizens (via our innovative Citizens' Academy) in improving health care outcomes. This theme benefits from close association with the other major research institutes on the Norwich Research Park; notably the Norfolk and Norwich University Hospital and the Quadram Institute. The Norwich Cancer Research Network, and Norfolk Institute for Healthy Ageing, are examples of key mechanisms for delivery of real impact from health research at UEA.

UEA has been a major success over the last 60 years and looks forward with confidence to the next 60 years.

**For an informal discussion about the post please contact Dr Penelope Pickers ([p.pickers@uea.ac.uk](mailto:p.pickers@uea.ac.uk)).**

## **UEA is part of the Norwich Research Park**

Norwich Research Park (NRP) membership locates UEA in one of the largest concentrations of research institutes in the whole of Europe – four independent internationally-renowned research institutes: John Innes Centre, Quadram Institute, Earlham Institute and The Sainsbury Laboratory; with the University of East Anglia and Norfolk and Norwich University Hospitals NHS Foundation Trust, supported and funded by The John Innes Foundation, The Gatsby Foundation, and UKRI Biotechnology and Biological Sciences Research Council.

The NRP provides an ideal environment for collaborative use of infrastructure and facilities, with a single portal for academics and businesses to access the specialist facilities across the Park.

The Enterprise Centre is a regional business, knowledge and innovation hub, with workspace provision and supports over 80 businesses working alongside UEA staff and students in a dynamic and vibrant entrepreneurial community. On the wider NRP, there are dedicated laboratory and office spaces in the Innovation Centre and Centrum hosting over 600 staff within a total of 115 businesses and spinouts.



# THE ROLE

As Research Associate you will be working under the supervision/direction of Dr Penelope Pickers on the EU-funded PARIS project ("Process Attribution of Regional Emissions"; <https://horizoneurope-paris.eu/>), using atmospheric O<sub>2</sub> and CO<sub>2</sub> data to quantify fossil fuel CO<sub>2</sub>. You will be involved in analysing the atmospheric time series datasets from two sites in the UK, which will involve determining appropriate baselines and/or atmospheric conditions for these time series so that fossil fuel CO<sub>2</sub> estimates and their uncertainties can be calculated. You may also contribute to data quality control/quality assurance activities in addition to data analysis as required.

It is not expected that you will have a background in atmospheric O<sub>2</sub> and CO<sub>2</sub> measurements, but rather some previous experience and a keen interest in atmospheric or carbon cycle science, and a willingness to learn. Training specific to O<sub>2</sub> and CO<sub>2</sub> data analysis will be provided by the project Principal Investigator (PI) and other members of the team.

The role is ideal for someone wishing to further develop their existing data analysis skills (e.g. programming, handling large datasets, etc.) in a research environment while contributing to solving a real-world problem.

## KEY RESPONSIBILITIES

- Contribute effectively to the PARIS project objectives under the guidance of a more experienced academic PI.
- Use initiative and creativity to analyse and interpret research data and draw conclusions on the outcomes.
- Coordinate your own work with that of others, deal with problems which may affect the achievement of research objectives and contribute to the planning of the project.
- Present information on research progress and outcomes to groups overseeing the research project.
- Write up results from your own research activity and contribute to the research project's dissemination, in whatever form (report, papers, chapters, book, conference posters and presentations).
- Ensure that personal knowledge in relevant fields of study is kept up to date.
- May participate in activities to achieve engagement with research and/or impact beyond academia.
- Use research resources (including, where required, laboratories, workshops and specialist equipment) appropriately.
- Liaise with research colleagues and support staff on day-to-day issues.
- Start to develop internal and external contacts with researchers in related areas of study, in order to assist the work of the PARIS project.
- May provide help and guidance as required to any support staff and/or research students assisting with the research.
- May provide advice and demonstrate techniques to students in your discipline.
- Work with other researchers in a team and actively participate in the work of the team.
- Undertake additional or alternative duties commensurate with the grade as deemed appropriate by the PI.
- Contribute to the continuous development of the School.
- Act in accordance with the University's Values, in all aspects of work.
- Abide by all University Regulations and Policies relevant to the role.
- Observe the strict rules of confidentiality applicable to work within the School.

# THE PERSON

## EDUCATION & TRAINING

- Graduate level qualification, equivalent qualification or experience in environmental science, physics, or another similar area (E)
- Postgraduate research degree or equivalent qualification/working towards one or equivalent experience (D)

## SKILLS, KNOWLEDGE & EXPERIENCE

- Ability to work in a proactive and results driven manner (E)
- Strong organisational skills; ability to plan and manage own workload, meeting deadlines (E)
- Demonstrable administrative and prioritisation skills with the ability to manage a varied workload in a high paced environment (E)
- Ability to use initiative and apply creativity to solve problems (E)
- Meticulous with strong attention to detail (E)
- Excellent interpersonal skills; ability to quickly establish and maintain good working relationships at all levels (E)
- Strong verbal and written communication skills, with the ability to communicate complex information clearly (E)
- Competent user of Microsoft Outlook, Word,

Excel and Powerpoint (E)

- Ability to analyse and interpret results (E)
- Some previous programming experience (e.g. R, Python, or similar) (E)
- Strong mathematical abilities (E)
- Report writing and presentation skills (E)
- Good time management skills (E)
- Ability to work collaboratively with colleagues (D)
- Experience or knowledge in time series analysis and/or atmospheric greenhouse gas data analysis (D)
- Knowledge of the carbon cycle, specifically in the area of fossil fuel emissions (D)
- Previous research experience (D)

## PERSONAL ATTRIBUTES

- Demonstrate UEA's Values and behaviours in day-to-day work and support a team culture that reflects them (E)
- Willingness to change and develop work practices (E)
- Proactive and self-motivated and willing to take ownership of tasks without close supervision (E)

- Confident, articulate and credible (E)
- Able to maintain confidentiality (E)

**Essential Requirements (E)** are those, without which, a candidate would not be able to do the job.

**Desirable Requirements (D)** are those which would be useful for the post holder to possess and will be considered when more than one applicant meets the essential requirements.

# FURTHER INFORMATION

This full-time post is available from August 2026 on a fixed term basis for 5 months.

Salary will be £31,236 per annum on Grade 6 on the single salary spine.

**Place of Work** - The University is strongly committed to providing an excellent student experience and research environment, and it is expected that all staff will be available on campus to carry out their duties during their working week in support of these goals.

If successful you will be asked to show evidence of right to work in the UK prior to any formal offer being made. Non-British and non-Irish nationals entering the UK to undertake employment or who are currently in the UK will have to meet eligibility criteria under the points-based immigration system. The University may be able to provide sponsorship under the Skilled Worker route if relevant criteria are met. Please note, due to the complexities of the immigration system, Skilled Worker visa sponsorship is not guaranteed for every role. If you would like further information about whether this role is eligible for visa sponsorship, please contact [staff.visacompliance@uea.ac.uk](mailto:staff.visacompliance@uea.ac.uk)

The post is superannuable under the Universities Superannuation Scheme and there is an annual leave entitlement of 30 days plus statutory (8 days) and customary (6 days) holidays. The University is committed to creating an environment where the health, welfare and safety of all students and staff is of paramount importance. The University's Safeguarding Policy addresses both child protection and safeguarding children, young people and vulnerable adults within the work of the University. Appointment will be subject to satisfactory pre-employment checks, which may include an Occupational Health assessment.

Information on the benefits of working at UEA can be found at <https://www.uea.ac.uk/about/working-at-uea>.

If you require the information contained within this candidate brochure in a different format please email [staff.recruitment@uea.ac.uk](mailto:staff.recruitment@uea.ac.uk)

## HOW TO APPLY

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

The closing date for this role is 11:59pm on **Friday 5 June 2026**.

Please note that the application form contains an Equal Opportunities section which must be completed. The Equal Opportunities information will not be made available to the selection panel and will not form any part of either the short-listing or decision making process.

It is anticipated that interviews will take place via Microsoft Teams or in person on **Friday 26 June 2026** and we will inform you of the outcome of your application prior to this date.

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



# ABOUT THE SCHOOL

## School of Environmental Sciences

The School of Environmental Sciences provides a vibrant environment in which to carry out environmental and allied research. The School is one of the largest and longest established academic departments in Europe to focus on the study of the global environment. Our research and teaching span the fields of marine and atmospheric sciences, climate sciences, geosciences, environmental biology, geography, social sciences and economics. In line with its strong interdisciplinary ethos, research collaborations occur within and between these subjects. In 2017, our sustained contribution to understanding and protection of the environment was recognised with the award a Queen's Anniversary Prize for Higher and Further Education.

## Research and Innovation

Our research is highly acclaimed. In the 2021 Research Excellence Framework exercise, we were 4th overall for research quality in Earth Systems and Environmental Sciences, with 94% of our research judged to be either world-leading or internationally excellent in terms of originality, significance and rigour. The School encompasses the Climatic Research Unit, Tyndall Centre for Climate Change Research, the Science, Society and Sustainability (3S) Research Group and the

Centre for Social and Economic Research on the Global Environment (CSERGE).

The School has world class facilities including the Stable Isotope Laboratory, the Roland Von Glasow Air-Sea-Ice Chamber, a fleet of sea gliders, the Weybourne Atmospheric Observatory and a range of geophysical equipment. In addition, the Science Faculty Instrument Platforms provide state-of-the-art major and trace element and image analysis capabilities. Computing facilities available to the university research community include a High Performance Computing Cluster with Linux support.

## Teaching

The School runs a number of MSc programmes in Environmental Sciences, Climate Change, Applied Ecology, and Environmental Assessment and Management (full-time and part-time). BSc programmes include Environmental Sciences, Geography (both BA and BSc), Geology with Geography and Geophysics (all also offered with a year in several other countries, or with a year in industry).

**Patron: King Charles III**

**Head of School: Professor Ian Renfrew**



# ABOUT THE FACULTY

The Faculty of Science is home to a vibrant community of students, staff, and visitors. Our lively environment allows high quality, innovative research across a broad spectrum of themes.

This vibrant culture provides a base for our research-led teaching and underpins all our activities from influence of government policy to presentations at local schools.

Our five Schools of Study engage in world leading research. You can find out more about the courses taught and activities taking place in our Schools on our Faculty [information pages](#).

- School of Biological Sciences
- School of Computing Sciences
- School of Chemistry, Pharmacy and Pharmacology
- School of Engineering, Mathematics and Physics
- School of Environmental Sciences

Our Schools are bolstered by degree courses in Actuarial Science, Natural Sciences, Physics and Geography.

“The UEA ‘Do Different’ ethos is central to Science and Engineering at UEA, which provides a dynamic and inclusive environment for teaching, research, innovation, and application. We are open to new faculty members who can complement and extend our interdisciplinary portfolio.”





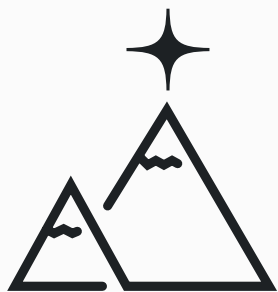
# OUR VALUES

Shaped by staff, our UEA values represent a core set of standards for how we behave as an employer, drive excellence in teaching, learning and research, and collaborate as an anchor institution in our local community.

From tackling global challenges, striving for student and staff success, and creating a vibrant inclusive environment, our values are what unite us.

- ✦ AMBITION
- ✦ COLLABORATION
- ✦ EMPOWERMENT
- ✦ RESPECT

## OUR VALUES (CONTINUED)



### AMBITION

**We are ambitious for our future success.**

We are forward-thinking and brave in our approach and decisions. We make space for innovation and creativity, seizing opportunities that are responsible and sustainable. We are ambitious for the advancement of education and research.



### COLLABORATION

**We are collaborative in our approach.**

We work together with shared purpose. We build connections, share ideas and develop new networks. We champion our regional, national and global relationships and demonstrate that together we can achieve greater goals and positively influence the world around us.



### EMPOWERMENT

**We empower ourselves and each other.**

We develop ourselves and others, trusting people to make decisions based on their expertise and knowledge. We continually improve systems and processes to support us in working in an agile and efficient way.



### RESPECT

**We respect each other.**

We treat everyone with respect and dignity. We value diversity and foster a community where people can express different thoughts and views. We are open to challenge, so we can learn and improve. We encourage a positive, inclusive environment where everyone has opportunities to fulfil their potential.

# RESEARCH AT UEA

REF21 results showed that 91% of our research is world leading or internationally excellent ([The University of East Anglia : Results and submissions : REF 2021](#)); and the Knowledge Exchange Framework (KEF) results show UEA as above average across most indicators in our Cluster-X grouping ([Knowledge exchange framework: Dashboard \(kef.ac.uk\)](#)).

UEA research is highly cited, the 6th most cited in the UK and 41st globally (THE Research Citations rankings 2022). Ten researchers associated with the Norwich Research park and seven researchers from UEA have been named in the annual [Clarivate Web of Science Group Highly Cited Researchers list for 2022](#).

UEA is listed in the World Top 100 for research citations (Times Higher Education World University Rankings 2023) and World Top 50 (Times Higher Education Impact Rankings 2022).

## REF21 Highlights – Top 20s

- 1st overall, 6th for outputs and 1st for impact - for (Anthropology and) Development Studies (8th for research power)
- 1st overall, 2nd for outputs and 1st for impact - for Agriculture, Food and Veterinary Sciences
- 3rd overall, 7th for outputs and 8th for impact - for History

- 4th overall, 14th for outputs and 5th for impact - for Earth Systems and Environmental Sciences (9th for research power)
- 4th overall, 9th for outputs and 1st for impact - for Social Work and Social Policy
- 5th overall, 8th for outputs and 7th for impact - for Area Studies

## UEA is home to several world-renowned Research Centres and Networks

- Climatic Research Unit (CRU) [Climatic Research Unit - Groups and Centres \(uea.ac.uk\)](#)
- Tyndall Centre [Homepage -Tyndall Centre for Climate Change Research](#)
- Norwich Institute for Healthy Ageing (NIHA) <https://healthyageingnorwich.com/>
- Centre for Japanese Studies & Sainsbury Institute for the Study of Japanese Art and Cultures <https://www.uea.ac.uk/groups-and-centres/centre-for-japanese-studies> <https://www.sainsbury-institute.org/>
- Biomedical Research Centre <https://www.uea.ac.uk/groups-and-centres/biomedical-research-centre>
- Centre for Competition Policy <https://www.uea.ac.uk/groups-and-centres/centre-for-competition-policy>

- Norwich Institute for Sustainable Development (NISD) [Home - The Norwich Institute for Sustainable Development \(nisd.ac.uk\)](#)
- Centre for Research on Children and Families (CCRF) <https://www.uea.ac.uk/groups-and-centres/centre-for-research-on-children-and-families>
- Water Security Research Centre (WSRC) [Water Security Research Centre - Groups and Centres \(uea.ac.uk\)](#)
- Productivity East <https://www.uea.ac.uk/groups-and-centres/productivity-east>

UEA houses the British Archive for Contemporary Writing (with material from renowned authors such as Doris Lessing and Lee Child), the nationally accredited East Anglian Film Archive, Sainsbury Centre for Visual Arts, Sainsbury Institute for the Study of Japanese Arts and Culture, and Sainsbury Research Unit for the Arts of Africa, Oceania and the Americas.

# OTHER ACCOLADES

- Queen's Anniversary Prizes for Higher and Further Education have been awarded to UEA for international development studies (2009), creative writing (2011) and environmental sciences (2017). Notable alumni include Sir Paul Nurse (1973, Nobel Prize for Medicine 2001), Sir Kazuo Ishiguro (1980, Nobel Prize for Literature 2017), Sir Michael Houghton (1972, Nobel Prize for Medicine 2020) and Sarah Gilbert (1983) who led the Oxford University team to develop a COVID-19 vaccine, approved in 2020.
- Our Doctoral College, established in 2018, hosts six Doctoral Training Partnerships and integrates Faculty and School provision for 1600 Postgraduate Research Students (including those from across the Norwich Research Park), enabling collaboration and innovation.
- We recognise our global impact and were one of the first universities to declare a climate and biodiversity emergency in June 2019. Our sustainable campus, including over 50 acres of environmentally valuable parkland, is constantly evolving with ambitions to be 100% net zero by 2045 or sooner.
- UEA is a University of Sanctuary, an accreditation given to universities that show an ongoing commitment to creating a welcoming culture of inclusivity and awareness.
- UEA was awarded the Silver Athena SWAN Award in 2019, and all our Schools hold awards at Bronze or Silver.

**A vibrant place to study, learn and work, UEA is a very special place.**



# A SUSTAINABLE UNIVERSITY

At UEA, we are now working to create a university that will be even better in the future, and we are working to achieve net zero carbon by 2045 (or earlier). Our Sustainable Ways vision is one of a resilient university – where consumption is efficient and self-generated energy supports low carbon goals, supported by a vibrant community of world-leading researchers and inspired graduates.

At a basic level, our sustainable development means that we try to balance the 'three pillars' of environmental, economic and social elements.

We challenge our environmental impact through on-site energy generation and a district heating and cooling network, reducing our reliance on grid electricity and therefore fossil fuels. We promote and use recycled and 'eco' products such as biological cleaning materials. We champion local suppliers and ethical causes, including Fairtrade and vegan products. We seek to ensure value for money in a holistic, whole-life costing sense in our new buildings and procurement contracts.

## OUR INITIATIVES

Central campaigns, such as holiday shut-downs or awareness day events, support a whole-University approach to energy saving and other initiatives.

Follow us on X [@SustainableUEA](https://twitter.com/SustainableUEA)



# OUR CAMPUS

UEA is based on a campus that provides top quality academic, social and cultural facilities to over 17,000 students.

Although located in 320 acres of rolling parkland, virtually no part of the campus is more than a few minutes' walk from anywhere else, so everything is close at hand – the library, nursery, health centre, supermarket (incorporating a post office) and restaurants. Amongst the striking buildings is the UEA's Sainsbury Centre for Visual Arts, which contains the Robert and Lisa Sainsbury Collection – one of the greatest art collections formed in Europe during the 20th Century.

The University has invested in new learning and teaching and research spaces, including a celebrated new Enterprise Centre that underpins its commitment to promoting student enterprise and entrepreneurship.

Sport and Recreation plays a major part in the life of the University of East Anglia, centred around the major Sportspark facility which is one of the most successful community sport facilities in the UK. This accessible and affordable facility provides a diverse range of activities, and incorporates a 50m Olympic size swimming pool, indoor climbing wall, coaching resource centre and sports injury clinic.



# NORWICH

## A CITY OF STORIES

The city's motto is 'A fine city' and its strong cultural heritage has seen Norwich maintain the best of its historical character whilst developing to become one of the most vibrant and attractive cities in Europe. Norwich offers miles of riverside walks and cycle ways, and a unique collection of 1930s parks. The city is surrounded by beautiful countryside and within easy reach of the stunning Norfolk coast.

Norwich is a UNESCO World city of Literature, the first in the UK, as well as being one of the newly named Tech Cities recognising the growth of digital businesses in the region. The most prominent high-rise building, apart from the castle, is the magnificent 11th century cathedral, which still dominates the skyline. The city's medieval centre of cobbled streets remains largely intact, but there is still space for modern buildings such as the city's centrepiece, the Forum, which is a striking piece of contemporary architecture. The glass front overlooks the colourful open-air market (one of the largest in the country) and reflects the city in all its diversity.

The city is consistently rated as one of the top ten shopping venues in the UK. Norfolk and Suffolk attract thousands of visitors each summer. The famous Norfolk Broads are among the most important wetlands in Europe and a haven for rare plants, wildlife and insects. The Broads attract holidaymakers who come to navigate the intricate natural network of waterways formed by the Rivers Bure, Yare and Waveney and their tributaries.

For further information about UEA's excellent facilities, staff benefits, picturesque campus and the UEA working environment, please visit the 'Careers at UEA' microsite <https://www.uea.ac.uk/about/working-at-uea>. Additional information about living and working in the city of Norwich can be found at <https://www.workinnorwich.co.uk/>



*If there is another city in the United Kingdom with a school of painters named after it, a matchless modern art gallery, a university with a reputation for literary excellence which can boast Booker Prize-winning alumni, one of the grandest Romanesque cathedrals in the world, an extraordinary new state-of-the-art public library then I have yet to hear of it. Norwich is a fine city. None finer.*

**STEPHEN FRY**



# LOCATION

Some cities you've heard of, others you have to discover. Norwich is one of the most beautiful, modern historic cities in Britain. It's a city that celebrates the independent, stimulates creativity, promotes change and encourages diversity.

UEA is a campus university located 3 miles from the centre of Norwich. Situated in the heart of Norfolk, which means it's an ideal location to explore Norwich and beyond.

## BY RAIL

LONDON • 2 HOURS

CAMBRIDGE • 1 HR 15 MINS

BIRMINGHAM • 4 HOURS

Many European cities (including Paris and Amsterdam) easily accessible by train

## BY ROAD

KINGS LYNN • 1 HOUR

CROMER • 45 MINUTES

SOUTHWOLD • 1 HOUR

## BY AIR

NORWICH AIRPORT • 20 MINUTES

STANSTED AIRPORT • 2 HOURS

London is a major airline hub and all main international destinations are easily accessible



An internationally renowned university, UEA is ranked in the UK Top 25 (Complete University Guide 2025), UK Top 30 (The Mail 2025) and the World Top 100 (Times Higher Education Impact Rankings 2024), where it ranks in the UK Top 20 for research quality (Times Higher Education Rankings for the Research Excellence Framework 2021) and World Top 20 for Health and Wellbeing (QS World University Rankings for Sustainability 2024), reflecting the international excellence of its research environment. The University holds UK Teaching Excellence Framework Silver status.

## Equality, Diversity, Inclusion and Wellbeing

The University is committed to diversifying its workforce and to the wellbeing of all our staff. For example, we already hold an Athena Swan Silver Institutional Award in recognition of our advancement towards gender equality. Further details on our broader Equality, Diversity, Inclusion and Wellbeing work can be found on our [website](#).

