

INDUSTRIAL CHAIR IN ENGINEERING

School of Engineering,
Mathematics and Physics
Faculty of Science

ATS1364

CANDIDATE BROCHURE



CONTENTS

- 3 What makes UEA so special?
- 5 The Role
- 7 The Person
- 8 Further Information including How to Apply
- 9 About the School
- 9 About the Faculty
- 11 Our Values
- 13 Accolades
- 14 A Sustainable University
- 15 Our Campus
- 16 Norwich - City of Stories
- 17 Location



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 Professor Chris Atkin, Head of Engineering, via emp.hospa@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

To provide academic leadership and be capable of engaging fully with the strategic development of the School, including leadership and co-ordination in our key focus areas, formation of engineering graduates and supporting engineering businesses. To plan, teach and assess appropriate topics according to your specialisms and the requirements of the post, at undergraduate and postgraduate levels. To support our research strategy and efforts to secure external funding. To maintain a high profile as a leader in your professional field and promote enterprise and engagement at UEA.

KEY RESPONSIBILITIES

TEACHING

The School is committed to high quality teaching at all levels. You will be required to undertake a standard contribution to both undergraduate and MSc teaching duties alongside others of a similar level of seniority in the School, and according to the normal method of distribution of duties. The duties typically include lectures, seminars, tutorials, collaborative and team teaching, marking and feedback of written work, examination marking. In particular, your duties will be as follows:

- Undertaking teaching at all levels, including all administration relating to teaching including developing teaching and learning materials, and assessing students according to prescribed specifications, including the setting and marking of examination papers and assessed coursework or projects.
- Taking responsibility for convening units as specified and ensure delivery of the appropriate forms of teaching and assessment for them.
- Taking the lead in the development of new and existing modules, units and course programmes at both undergraduate and postgraduate levels, and in the review and up-dating of existing units.
- Supervising project work at all levels.
- Supervising, co-supervising, and examining PhD dissertations.
- Monitoring and reporting on student progress and performance.
- Attending progress reviews and examiners' meetings.
- Liaising closely with the Head of School, Examinations Officer and other colleagues on matters of teaching, assessment and reporting on student progress and performance.
- Being available to discuss academic matters with students and colleagues.
- Taking responsibility for the delivery and assessment of specific modules and ensure that the content echoes current standards and that the assessment type and volume is appropriate for students' programmes of study.
- Undertaking academic duties (e.g. setting examination questions, marking, providing additional assessments as required, and providing academic advice and pastoral support of students) required to sustain the delivery of high-quality teaching.
- Undertaking all administration related to teaching including developing teaching and learning materials.
- Liaising closely with the Head of School and other colleagues on matters of teaching, assessment, and student progress and performance, and provide guidance to other colleagues in this regard.

THE ROLE (CONTINUED)

ADMINISTRATION

The School and University provide support for administration. It is expected that Professors will undertake Head of School duties during their UEA career. However all academic staff are expected to do the following:

- Undertaking appropriate administrative duties commensurate with the post of Professor, including significant responsibility for management of resources, staff and finances.
- Contributing significantly to strategic discussions concerning the School's future.
- Serving on relevant committees at School and University level.
- Taking responsibility for some of the degree programmes within the School.
- Taking responsibility for the management and administration of personal contributions to the University's academic activities.
- Working collaboratively with other Schools and develop interdisciplinary links for teaching as appropriate.
- Developing and strengthening international links and links with other UK universities and funding bodies/academic institutions.

OTHER ACADEMIC ACTIVITIES

You are expected to maintain a high profile as leaders in your academic field. Appropriate ways of fulfilling this role may include:

- Undertaking (subject to the agreement of the Head of School and the University as appropriate) other external commitments which enhance the reputation of the University.

GENERAL

- Advising a full complement of student advisees.
- To promote Enterprise and Engagement at UEA. Enterprise and Engagement incorporates 'knowledge transfer' and comprises academic enterprise and business, community and public engagement, and is normally the use of or development of intellectual capital through an interaction between the university and non-academic sectors.
- Attending meetings and participating in the collegial responsibility for the delivery of teaching in the School and University.
- Maintaining a high profile as a leader in your professional field.
- Engaging in continuous professional development, for example through participation in relevant staff development programmes.
- Undertaking, subject to the agreement of the Head of School and the University as appropriate, external commitments which enhance the reputation of the University.
- Contributing to quality audits and/or assessments in higher education.
- Such other duties at a comparable level of responsibility as may be reasonably requested from time to time by the Head of School, e.g. contribution to School events.
- Contribute to the continuous development and implementation of the School.
- Positively support and promote 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, EXPERIENCE AND ACHIEVEMENTS

- A good first degree in engineering (E)
- Significant technical achievement in a professional environment (E)
- A relevant teaching qualification, or willingness to work towards one (E)
- Extensive experience of management and administration, and evidence of great effectiveness and ability in this respect (E)
- Evidence of high quality and effective technical leadership (E)
- Relevant experience in R&D or fostering engagement with research organisations. (E)
- A PhD (or equivalent) in a relevant subject area (D)
- Chartered status (D)

SKILLS AND KNOWLEDGE

- An excellent sharer of knowledge, with substantial commitment to developing innovative and effective teaching methods (E)
- Familiarity with student assessment at all levels including coursework, examinations and

dissertations (E)

- High level expertise in relevant subject area(s) (E)
- Excellent communication and interpersonal skills (E)
- Competent IT skills (E)
- Excellent teaching and presentation skills (E)
- Excellent 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)
- 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)
- Effective use of IT for teaching and learning (E)
- Ability to motivate colleagues (E)
- Ability to contribute to and play a leading role in developing the School's portfolio of introductory, survey and specialist teaching at BA and MA level (E)

- Ability to use initiative (E)
- A high level of commitment to professional training and development of staff (E)
- Experience of managing enterprise and engagement projects (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

The post is available from 1 August 2026 on a part-time (0.2 FTE) basis for a fixed term period of up to 4 years.

A competitive salary is available for an outstanding candidate.

Relocation expenses are reimbursable under certain conditions.

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. We have a hybrid-working policy which supports a mix of at home and on campus 'hybrid' working for many roles. For the majority of hybrid roles, the expectation is a minimum of 60% of working time will be spent physically present in the workplace.

The flexibility of the hybrid-working policy allows the possibility of some remote working, but it is the expectation that all appointments will be UK based, with any overseas working agreed in advance by exception only.

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

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, pro rata for part time. 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

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 **8 July 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 presentations and interviews will take place **mid July** and we will inform you of the outcome of your application via email.

Reasonable travel and incidental expenses incurred in attending the interview will be reimbursed, subject to qualifying criteria (please ensure that you keep all receipts). Please note that if you are offered a post and decline the offer, travel and incidental expenses will not be reimbursed.

ABOUT THE SCHOOL

Head of School: Professor Chris Atkin

Our School is designed to foster a vibrant community where students and faculty collaborate to push the boundaries of knowledge and technology.

At the School of Engineering, Mathematics, and Physics at UEA, we are dedicated to nurturing the next generation of engineers, mathematicians, and physicists. Our commitment to excellence in teaching, research, and industry collaboration ensures that our graduates are well-equipped to tackle the challenges of the future and make significant contributions to their fields.

Our Disciplines

Engineering: Bridging Academia and Industry. Our Engineering program combines cutting-edge research, flexible teaching, and strong industry partnerships. After our integrated first year, students can specialise in mechanical, electronic, electrical, or energy engineering. Our proximity to the energy sector and manufacturing companies offers practical experience and industry engagement. Guided by our industry advisory board and through initiatives such as the Select Partnership, our students leave well-prepared for engineering careers.

Our research focusses on areas such as environmental sensing, renewable energy and energy storage, advanced droplet modelling with applications in 3D printing, and intelligent manufacturing and lifecycle technologies.

Mathematics: A Community of Passionate Learners. Studying Mathematics at UEA means becoming part of a close-knit community driven by a shared passion for

teaching, learning, and discovery. Our modern teaching program ensures that students gain a solid grasp of mathematical principles, with the flexibility to focus on pure or applied mathematics. Beyond technical skills, we emphasize the development of critical attributes such as communication and critical thinking.

Our faculty is engaged in diverse research areas, from fluid dynamics to quantum fluids, fostering an environment of dynamic scholarship and international collaboration.

Physics: A Dynamic and Interdisciplinary Approach. Physics at UEA emphasises a fresh, dynamic approach with strong interdisciplinary connections. Our career-focused degree programs incorporate cutting-edge research and personalised teaching. Students benefit from hands-on labs and flexible program options, including a foundation year for diverse backgrounds.

Additionally, our commitment to internationally recognised research ensures that students receive a comprehensive education in areas such as astrophysics, quantum physics, geophysics, chemical physics, and fluid dynamics.

Actuarial Science: A unique approach. Students who come to UEA to study Actuarial Science benefit from our close industry links and collaboration with the School of Computing Sciences. This means our students develop highly desirable skills in data science. They can choose to develop expertise in machine learning, artificial intelligence, and coding in Python. It also gives our students confidence that the skills they are developing are relevant to today's employers.



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.”





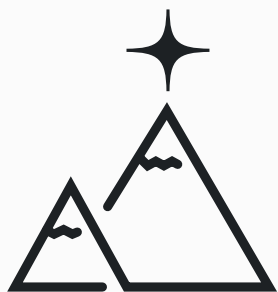
OUR VALUES

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.

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 26th in the UK (Complete University Guide 2026) and is in the UK Top 25 for research quality (Times Higher Education Rankings 2026) reflecting the international excellence of its research environment. We are in the World Top 60 (QS World Rankings for Sustainability 2025) and the World Top 13th for reduced inequalities (Times Higher Education Impact Rankings 2025). 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](#).

