Lecturer in Structural Engineering

Department	Civil and Environmental Engineering (www.strath.ac.uk/engineering/civilenvironmentalengineering/)		
Faculty	Faculty of Engineering (www.strath.ac.uk/engineering/)		
Staff Category	Academic	Reference No	429355
Reports To	Head of Department	Grade:	8
Salary Range:	£42,149 - £47,419	Contract Type:	Open Contract
FTE	1 (35 hours/week)	Closing Date	07/03/2022

Job Advert

As a leading international technological university, the University of Strathclyde is recognised for its world class research, knowledge exchange and educational programmes. The Department of Civil and Environmental Engineering is one of the largest and most successful civil engineering departments in Scotland with over 600 students, including 450 undergraduates, 100 taught postgraduates and almost 100 registered research students. We have a strong commitment to widening access and inclusion while maintaining academic quality and an outstanding student experience.

The Department of Civil and Environmental Engineering (CEE), University of Strathclyde, is seeking to appoint a Lecturer in Structural Engineering to strengthen our Centre for Intelligent Infrastructure (CII). The CII is committed to transforming traditional structural engineering through cross-cutting research that encompass nano-technologies, smart materials and structures, computational mechanics, sensor and communication technologies, structural health monitoring, asset management, system engineering, risk analysis; all as applied to civil infrastructure. It has a key remit to drive structural engineering innovation to help target Net-Zero. This is key as the construction sector has an exceptionally heavy carbon footprint. This new post will enhance Strathclyde's research in structural engineering and support our aims to be key players in the Net Zero mission and resilient infrastructure. The Centre has attracted £2.5M in research income during the REF period.

Over the last few years, the Department has seen considerable success in all aspects of academia and we are ambitious to continue this upward trajectory. We are a young dynamic department, with a reputation for having a friendly and active research culture and a current population of around 70 PhD students. In REF 2014, we were ranked 1st in Scotland for research power (in the Times Higher Education Supplement) and 8th in the UK. Our overall student satisfaction score in the NSS was 90.5% in 2021. We also have an exciting new International Joint Education Program (IJEP) with Yunnan University in China (delivered in English language), and you may be required to spend 2 – 4 weeks of the academic year teaching in China.

To be considered for the role you will have a good honours degree and PhD (or significant professional experience) in a structural engineering related discipline. You will have a track record of published research in high quality publications commensurate to the academic grade (lecturer). You will have research experience and interests consistent with the strategic direction of the Department and the Centre for Intelligent Infrastructure. You will have excellent communication skills and a commitment to excellence in teaching at all levels.

The appointment is anticipated to begin ideally in June 2022, but later start would also be considered.

Job Description

Brief Outline of Job:

The successful candidate is expected to collaborate on interdisciplinary research with colleagues from science and engineering departments through the Centre for Intelligent Infrastructure and to develop and sustain a strong externally funded research

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programme. While all outstanding applications in any area of Structural Engineering will be considered, candidates who can demonstrate specialization in areas that complement the strengths of the Centre are strongly encouraged to apply.

The postholder will consolidate and enhance the ongoing research within the Centre for Intelligent Infrastructure and will help in positioning CEE-Strathclyde among the top UK Civil Engineering Departments. It will support our ambition to innovate approaches in structural engineering so that we play a key role in targeting Net-Zero and improving the infrastructure resilience via innovative approaches including but not limited to novel low-carbon materials, innovative structures (e.g. self-healing structure), advanced sensing technology for structural health monitoring, strategies and digital twins for supporting the design, monitoring and maintenance of critical infrastructure.

Structural Engineering is a core component of an accredited Civil Engineering and Civil and Environmental Engineering degree. The postholder will contribute to curriculum development within the degree programmes, and will enhance the student experience, maintaining our high NSS scores.

The postholder will ensure we have appropriate capacity to drive robust overseas student recruitment, contributing to the teaching to our increasing number MSc's students. The successful candidate will also contribute to the design and organisation of innovative curricula and syllabuses in structural engineering, contribute to management of the Department and the Centre as requested by the Head of Department, promote knowledge transfer of research in structural engineering that has the potential to provide impact within the civil engineering sector.

Main Activities/Responsibilities:

1.	Engage in individual and collaborative research of international excellence in structural engineering, establishing a distinctive programme of research.
2.	Disseminate results through regular publications in high impact journals, books and conference proceedings.
3.	Secure, as Principal- or Co-Investigator, to appropriate external bodies for research funding and manage grants awarded.
4.	Design and deliver teaching in structural engineering at undergraduate and postgraduate levels, including contribution to curriculum review and enhancement, in a manner that supports a research-led approach to student learning.
5.	Supervise research students and staff as required, providing direction, support and guidance.
6.	Undertake student assessment and examination activities, including the provision of appropriate feedback to students.
7.	Develop knowledge exchange activities by, for example, establishing research and/or educational links with industry and influencing public policy and the professions
8.	Contribute to the development of the Centre for Intelligent Infrastructure.
9.	Undertake necessary administrative and management functions, for example through membership of committees and/or by acting as class/module/year co-ordinator as required by the Department, Faculty and/or University.
10.	Engage in continuous professional development.
11.	Comply with and promote the University's Health, Safety & Environment, Equality, Diversity & Inclusion, and Welfare & Safeguarding Policies at all times.

Person Specification

Educational and/or Professional Qualifications
(E=Essential, i.e. a candidate must meet all essential criteria to be considered for selection, D=Desirable)

E1 Honours degree and PhD (or equivalent) in a relevant engineering related discipline

D1 Professionally qualified at Incorporated Engineer or Chartered Engineer level

Experience

E2 Research experience and interests consistent with the strategic direction of the Department and the Centre for Intelligent Infrastructure

D2 Experience of delivering high quality undergraduate and postgraduate teaching, supervision and examining (including in virtual/online mode).

D3 Experience of working with industry

D4 Collaboration with relevant partners in UK and overseas

Job Related Skills and Achievements

E3 A track record of publications in structural engineering commensurate with the academic grade
E4 Ability to secure research funding, including experience of contributing to grant applications
E5 Ability to work within an academic team environment and lead teams where required
D5 Track record of securing research funding
D6 Track record in knowledge exchange related activities

Personal Attributes

E6 Excellent interpersonal and communication skills, with the ability to listen, engage and persuade, and to present complex information in an accessible way to a range of audiences.
E7 Well-organised, effective and efficient approach to professional practice
E8 Flexibility in responding to the future needs of the Department and the Centre for Intelligent Infrastructure

Application Procedure

Applicants are required to complete an application form including the name of three referees who will be contacted before interview without further permission, unless you indicate you would prefer otherwise. Applicants should also submit a Curriculum Vitae and a covering letter detailing the knowledge, skills and experience you think make you the right candidate for the job as well as a Research Plan outlining your research strategy for the next 5 years. Applicants should also complete the Equal Opportunities Monitoring Form.

Other Information

Further information on the application process and working at Strathclyde can be found on our website (http://www.strath.ac.uk/hr/workforus).

Informal enquiries about the post can be directed to Professor Vernon Phoenix, Head of Department (vernon.phoenix@strath.ac.uk) or/and to Professor Edoardo Patelli, Head of the Centre for Intelligent Infrastructure (Edoardo.patelli@strath.ac.uk).

Conditions of Employment

Conditions of employment relating to the Academic staff categories can be found at: Conditions of Employment.

Rewards and Benefits

Our staff have access to a wide range of outstanding benefits that include financial rewards, family friendly and wellbeing benefits and career development opportunities, details of which can be found here.

Basic Disclosure

This role requires the satisfactory outcome of a Basic Disclosure Scotland Check. The successful applicant will be asked to carry out a Basic Disclosure Scotland Check. Whether an outcome is satisfactory will be determined by the University.

Pre-employment health screening

An offer of appointment will be subject to a medical assessment by Occupational Health. An individual who accepts an offer of employment must complete a confidential medical questionnaire and forward it to the Occupational Health Nurse within 5 days of receipt. If further information is required the individual may be contacted by the OHN or a Medical Advisor and a personal appointment with the individual may be arranged. An unconditional contract of employment will not be issued until Human Resources receives confirmation that applicant is fit to undertake the duties of the post.

Probation

Where applicable, the successful applicant will be required to serve a 12 month probationary period.

Pension

The successful applicant will be eligible to join the Universities' Superannuation Scheme. Further information regarding this scheme is available from Payroll and Pensions.

Relocation

Where applicable, the University offers a relocation package to support new employees who meet the eligibility criteria. The relocation package is offered as a contribution towards costs incurred, and is designed to be flexible, allowing staff to use the financial support available in the way that will be most helpful to them. Further details are outlined in the Relocation Policy.

Interviews

Formal interviews for this post will be held on the week beginning 21/03/2022.

Equality and Diversity

We value diversity and welcome applications from all sections of the community.

The University currently holds a Bronze Athena SWAN award, recognising our commitment to advancing gender equality in academia across all academic disciplines and professional and support functions.

University Values

The University's Values capture what we're all about: who we are, what we believe in and what we stand for. Our Values have been derived from how we act and how we expect to be treated as part of Strathclyde.