Lecturer / Senior Lecturer Posts in Civil Engineering
School of Engineering

Closing date: 15 November 2019
Interview date: TBC
Reference number: ENG144A
Introduction

The School of Engineering at the University of Aberdeen is a research-intensive academic unit engaged in fundamental and applied research across five Engineering disciplines: Chemical, Civil, Electrical and Electronic, Mechanical, and Petroleum. 85% of the School’s research output was ranked as world leading or internationally excellent in the last UK Research Excellence Framework exercise (REF2014).

We are a General Engineering unit, with approximately 900 undergraduate students spread across 5 years of study, 350 postgraduate taught students, and over 100 PhD students. We offer accredited undergraduate Master of Engineering (MEng, 5 years) and Bachelor of Engineering (BEng, 4 years) degrees in Chemical, Civil, Electrical and Electronic, Mechanical, and Petroleum Engineering, and a range of advanced and specialist MSc programmes. The School research is organised under five research groupings and six research centers (https://www.abdn.ac.uk/engineering/research/index.php).

One of the main research activities in the School relates to Civil Engineering and is conducted within the Mechanics of Fluids, Soils and Structures Research Group. Current research covers a spectrum of activities across four major areas: (1) Environmental and Industrial Fluid Mechanics; (2) Soil Mechanics; (3) Structural Mechanics; and (4) Transport Studies. Research in Environmental and Industrial Fluid Mechanics primarily focuses on (i) hydrodynamics of free-surface flows; (ii) mechanics of fluid-sediment interactions and transport; and (iii) thermophysical properties of fluids and metrology. These areas cover environmental and industrial flows at multiple scales, from sub-mm to kilometres. Studies of free-surface flows focus on open-channel flows, coastal processes, eco-hydraulics, flow-porous-bed interfaces, and liquid-solid impacts. Research on fluid-sediment interactions concentrates on sediment transport in unidirectional and oscillatory flows and on gravity currents. Current research in Soil Mechanics is focused on soil-structure interactions within two themes: (i) the dynamic behaviour of ground anchorage systems installed in soil or rock; and (ii) interactions between the seabed and bottom-moving objects (fishing gear or similar). Structures Research investigates fundamental and applied aspects of the design and analysis of structural systems, components, connections and materials, and evaluates the performance, condition and health of existing structural systems. Transport Studies are undertaken through the Centre for Transport Research (CTR) (www.abdn.ac.uk/ctr).

The School is currently expanding its teaching and research portfolio in Civil Engineering and offers three posts at Lecturer/Senior Lecturer level for individuals who will relish the opportunity to contribute to undergraduate and postgraduate teaching and the School’s Civil Engineering-related research. The appointees will be academics undertaking leading research or technology development in their respective fields, as evidenced by a track record of publications, research grant income or patents. The appointees will have clear plans for future research with good prospects for external funding. They will have excellent communication skills and the desire and ability to teach across the postgraduate and undergraduate years, including occasional teaching overseas. The successful candidate will have a PhD degree in a Civil Engineering subject area and be a Chartered Engineer or willing to work towards attaining CEng status.

We welcome applications from individuals with excellent research or technology commercialisation credentials in any area of Civil Engineering, including (but not restricted to) areas of current research strength of the School.
Job description

Main purpose of the role:
The School of Engineering is seeking the appointment of three academics at a level of Lecturer / Senior Lecturer to play leading roles in advancing the School's research in Civil Engineering. The successful candidates will also be expected to generate external research income and contribute to teaching across existing undergraduate and postgraduate programmes in the School, including occasional teaching overseas.

Key responsibilities:

Lecturer /Senior Lecturer in Civil Engineering
- Contribute to the advancement of the School’s research in Civil Engineering, generating high impact publications and significant research income through external grants;
- Contribute to the development and delivery of new and existing undergraduate and postgraduate programmes in Civil Engineering, including occasional teaching overseas.
- Develop collaborations with colleagues in the School of Engineering and, as appropriate, in other Schools (e.g. Natural and Computing Sciences, Biological Sciences, Geosciences);
- Contribute to the School of Engineering REF submission;
- Contribute to School administration duties and, as appropriate, represent the School at university and external committees and activities.
- Actively promote University and School of Engineering and contribute to wide-ranging outreach activities.

At a glance

Salary:
Lecturer - £41,526 - £49,552 per annum
Senior Lecturer - £52,559 - £59,135 per annum

Hours of work:
Full Time

Contract type:
Substantive
Candidate background

The successful applicant will have a proven track record of research, outstanding communication skills and the desire and ability to teach at undergraduate and postgraduate levels. A willingness and ability to develop new courses and contribute to the development of a new MSc in Civil Engineering is essential, as is a willingness to teach overseas occasionally.

The appointee will have a PhD degree in a Civil Engineering subject area and will likely have significant experience as a post-doc or independent researcher. S/he will have research expertise and experience and interest in one or more of the currently maintained research strengths or in any other civil engineering field.

In order to further enhance its diversity, the School particularly welcomes applications from women who are currently underrepresented in the School.

Terms of appointment

Salary will be at the appropriate point on the Grade 7 salary scale (£41,526 - £49,552 per annum) for appointments made at Lecturer level and negotiable with placement according to qualifications and experience. For appointments made at Senior Lecturer level, salary will be paid at the appropriate point on the Grade 8 salary scale (£52,559 – £59,135 per annum) and negotiable with placement according to qualifications and experience.

Any appointment will be made subject to satisfactory references and a 3 year probation period.

For further information on various staff benefits and policies please visit www.abdn.ac.uk/staffnet/working-here

Should you require a visa to undertake paid employment in the UK you will be required to fulfil the minimum points criteria to be granted a Certificate of Sponsorship and Tier 2 visa. As appropriate, at the time an offer of appointment is made you will be asked to demonstrate that you fulfil the criteria in respect of financial maintenance and competency in English. Please do not hesitate to contact Heather Clark, HR Adviser on +44 (0)1224 273244 or email h.m.clark@abdn.ac.uk for further information.
## Person specification

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<th>Education/Qualifications</th>
<th>Essential</th>
<th>Desirable</th>
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| **Academic, technical and professional education and training** | • PhD in Civil Engineering or in a closely-related Engineering disciplines.  
• Detailed knowledge of at least one main area of Civil Engineering as a result of advanced study and research. | • Higher Education Academy (HEA) Diploma or equivalent |

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<th>Work and Other relevant experience (including training)</th>
<th>Essential</th>
<th>Desirable</th>
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| eg Specialist knowledge, levels of experience, supervisory experience, research | • Experience in University teaching and supervision of students at both undergraduate and postgraduate levels.  
• Demonstrable potential to perform leading research in their specialist area.  
• Strong research profile with ability to develop and lead research projects (commensurate with the career stage).  
• Record of publications in peer-reviewed international journals (commensurate with career stage).  
• Experience of applying for research funding and managing research (commensurate with career stage).  
• Experience of managing major research projects (for Senior Lecturer only)  
• Holding Chartered Engineer (CEng) status or willingness to work towards attaining CEng. | • Experience in the administration of academic affairs or similar experience in industry (commensurate with the career stage).  
• Prior experience of developing on-campus and online postgraduate taught courses.  
• Experience of working with other Engineering and/or related disciplines  
• Experience with commercialization of research  
• International recognition through invited lectures, nominated UK expert, research visits, honours, etc. (for Senior Lecturer only) |

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<th>Personal qualities and abilities</th>
<th>Essential</th>
<th>Desirable</th>
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| eg initiative, leadership, ability to work on own or with others, communication skills | • Excellent written, oral and presentation skills.  
• Excellent skills to develop strong relationships with industry partners and/or with academics and researchers from other institutions and disciplines.  
• Ability and willingness to work in a multidisciplinary environment.  
• Ability and willingness to engage in growing the market for the new MSc. | |

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<th>Other</th>
<th>Essential</th>
<th>Desirable</th>
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<td>eg special circumstances (if any) appropriate to the role such as unsocial hours, travelling, Gaelic language requirements etc.</td>
<td>• Ability and willingness to travel to national and international meetings and conferences, promote the School and to deliver teaching at different locations including overseas.</td>
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The University

Founded in 1495, Aberdeen is Scotland’s third oldest University and the fifth oldest in the UK. Ranked within the world top 160 in the Times Higher Education Rankings 2019 and named Scottish University of the Year in the Times and Sunday Times Good University Guide 2019. Aberdeen is ‘open to all and dedicated to the pursuit of truth in the service of others’.

Aberdeen is a broad based, research intensive University, which puts students at the head of everything it does. It has significant academic strengths and potential across a wide variety of disciplines. Outstanding in a wide range of discipline areas, Aberdeen has also been credited for its international reach and its commercialisation of research ideas into spin out companies.

The University has over 14,000 matriculated students and 3,600 staff representing 130 nationalities. We encourage bold thinking, creativity and innovation and we nurture ambition with many opportunities for professional and personal development in an inclusive learning environment which challenges, inspires and helps every individual to reach their full potential.

The University combines a distinguished heritage with a forward looking attitude. In the past few years, the University has encouraged creativity in its academic staff, broken new ground with an innovative curriculum, and developed state-of-the-art facilities including the new Sir Duncan Rice Library and the Aberdeen Sports Village and Aquatics Centre. In looking to the future, the University seeks to enhance its reputation as one of the world’s leading Universities by moving forward with ever more ground breaking research; ensuring students have an intellectual and social experience second to none; and capitalising upon the dual role as one of the major institutions of the north and as a cornerstone of regional economic and cultural life.
The city and the region

Aberdeen and Aberdeenshire

With a population of approximately 230,000, the city stands between the Rivers Dee and Don. This historic city has many architectural splendours and the use of its sparkling local granite has earned Aberdeen the name of the Silver City. Recognised as the oil capital of Europe, Aberdeen nevertheless retains its old-fashioned charm and character making it an attractive place in which to live.

Aberdeen enjoys excellent communication services with other European cities - e.g. flying time to London is just over one hour with regular daily flights. There are direct air links to London, Manchester, Birmingham, Leeds, Southampton, Belfast and East Midlands within the U.K. There are also flights to international hub airports: Amsterdam (Schiphol) and Paris (Charles De-Gaulle) as well as flights to other European destinations. http://www.aberdeenairport.com Road and rail links are also well developed.

The Grampian Region which took its name from the Grampian Mountains has a population of approximately 545,000. It is made up of five districts – Aberdeen, Banff & Buchan, Gordon, Kincardine & Deeside and Moray. The city and the surrounding countryside provide a variety of urban, sea-side and country pursuits. Aberdeen has first class amenities including His Majesty's Theatre, Music Hall, Art Gallery, the Aberdeen Exhibition Centre, Museums, and Beach Leisure centre. Within a short time, beach pursuits, equine activities, salmon, trout and sea fishing, hill-walking, mountaineering, golf, sailing, surfing and windsurfing can be reached. The city and the surrounding countryside are repeatedly given high ratings for quality of life in surveys.

Aberdeenshire is one of Scotland’s most appealing regions. Royal Deeside and the Cairngorms National Park are within easy access of the city, and there are a variety of towns and villages scattered along the coastline.

Aberdeen and Aberdeenshire cater for a wide range of tastes in sporting and cultural activities.

To find out more about Aberdeen and Aberdeenshire go to www.visitabdn.com
How to apply

Online application forms are available at www.abdn.ac.uk/jobs

The closing date for receipt of applications is 15 November 2019

Should you wish to make an informal enquiry please contact
Professor Igor Guz, Head of School
01224 272808
i.guz@abdn.ac.uk

Please do not send application forms or CVs to Professor Guz

Please quote reference number ENG144A on all correspondence

The University pursues a policy of equal opportunities in the appointment and promotion of staff.

In order to further enhance its diversity, the School particularly welcomes applications from women who are currently underrepresented in the School.