

LECTURER IN ENGINEERING GEOLOGY

Job Ref: REQ17242

As part of the University's ongoing commitment to redeployment, please note that this vacancy may be withdrawn at any stage of the recruitment process if a suitable redeployee is identified.

School of Civil and Building Engineering

Teaching and Learning

The School offers a wide range of undergraduate programmes including Civil Engineering, Construction Engineering Management, Commercial Management and Quantity Surveying, Architectural Engineering and Design Management, Air Transport Management, Transport and Business Management and Architecture from October 2017.

The content of our programmes is directly aligned to the needs of the industry and there is a high level of sponsorship in our portfolio of programmes and our record of graduate employment is second to none. Further information on our teaching may be found at: <http://www.lboro.ac.uk/departments/civil-building/>

At MRes level we train the next generation of multi-disciplinary researchers in energy demand. At MSc level, we offer programmes in Water and Waste Engineering, Construction Management, Low Energy Building Services Engineering, Low Carbon Building Design and Modelling and an MSc in Air Transport Management. These programmes are all accredited by the Professional Institutions.

Research

The School has an established record for research excellence. In the recent assessment, Research Excellence Framework (REF), undertaken in 2014, Loughborough University was ranked 14th out of 128 universities based on research intensity. In the School of Civil and Building Engineering we return our staff to two units of assessment: Architecture, Built Environment and Planning, where we were ranked 2nd (out of 45) on research intensity; and Civil and Construction Engineering, being ranked 5th (out of 14) on research intensity.

The REF2014 results also showed:

- Quality - Over 75% of the School's research was rated as world-leading or internationally excellent
- Impact - 95% of our research was rated as world-leading or internationally excellent for its influence on society, the economy and policy <http://www.lboro.ac.uk/research/our-research/case-studies/>
- Environment – Ranked first in Architecture, Built Environment and Planning
- Uniquely in UK civil engineering and built environment research, 100% of eligible staff are research active

Further information on our research may be found at: <http://www.lboro.ac.uk/departments/cv/research/index.html>

International Standing and Excellence

Collaborations are encouraged and, nationally, research links have been formed with groups in the Universities of Birmingham, Bristol, Cranfield, Cambridge, Leeds, Lancaster, Liverpool, Leeds, Newcastle, Imperial, Oxford and Surrey. These links typically take the form of joint research projects with the short-term exchange of academic and research staff. The international standing of our research is exemplified by our growing portfolio of collaborations with other leading Universities and research institutes worldwide. Examples of collaborating partners include the Universities of TU Delft, NTUA, UNSW Sydney, University of California at Berkeley, MIT, Tokyo, Hong Kong, Iowa State, RMIT, Tongji, and PennState. We are equally proud of our collaborations with industry where organisations such as Foster & Partners, AECOM, Atkins Buro Happold, Cambridge Architectural Research Limited, J&P Building Systems Limited, Mallinson Architects & Engineers, SAGE Electrochromics Inc, SE Controls Ltd, Solidspace, Ford, Renault, Heathrow, British Airways, MAG, and Structerm are our partners. The development of these long-term, national and international links is a vital element of the School's on-going research strategy.

Research in Geotechnical Engineering

Geotechnical engineering within the School of Civil and Building Engineering is a well-established research group consisting of five permanent academic staff and approximately fifteen researchers at the doctoral and post-doctoral levels. Geotechnical engineering research is part of the Infrastructure research theme in the School. The research vision of the Group is to be a world leader in research with an overarching long-term research strategy to undertake original interdisciplinary research aimed at addressing the key geotechnical challenges faced by the design, construction, operation and maintenance of infrastructure. Priority research areas include: slope stability, impacts of climate change on infrastructure, monitoring and NDT, renewable energy structural foundations, geosynthetics, waste containment systems, numerical modelling including dynamic loading, pavement engineering, drainage, engineering of sports surfaces and sustainable use of materials. Central to this strategy is collaboration with leading academics and research groups worldwide, and also industry and government agencies in the UK and internationally.

Applications must contribute to the development and delivery of teaching, research and enterprise in the Geotechnical Engineering Group.

Job Description

Please note that this is a generic job description for the position of Lecturer.

Job Grade

Research, Teaching and Enterprise Grade 6/7

Job Purpose

To contribute to and enhance the research, teaching and enterprise activities of the School of Civil and Building Engineering in the area of Engineering Geology as part of the Geotechnical Engineering group in support of the University Strategy, Building Excellence.

Job Duties

Research

- To pursue a personal research programme consistent with the research priorities of the School of Civil and Building Engineering that increases the global visibility and reputation of the University.
- To secure external research funding.
- To supervise and manage research projects.
- To publish the outcomes of research in outlets of international standing.
- To attend and contribute to major international conferences.
- To supervise postgraduate students at Masters and Doctoral levels.
- To collaborate in research initiatives with colleagues both within the University and externally.

Teaching

- To work with colleagues in the School to deliver an exceptional learning environment for students.
- To teach and inspire undergraduate and postgraduate students, and to conduct associated assessments.
- To provide academic and pastoral support to undergraduate and postgraduate students.
- To promote the use of a range of methods and techniques in teaching, learning and assessment.
- To engage in the evaluation and development of modules for which you have responsibility, in terms of content, delivery and assessment.
- To be responsible for the design and content of specific areas of teaching and learning within the School's undergraduate and postgraduate programmes.
- To cooperate with colleagues in the continuous review and development of the School's taught programmes and curriculum.

Enterprise

- To engage with business, public and voluntary organisations through knowledge exchange activities such as student projects and placements, research collaboration, consultancy and specialist training.
- To create social, cultural and economic impact from academic, especially research, activity.
- To secure external funding in support of these activities.
- To seek opportunities for the commercialisation of research and the formation of social enterprises.

Related Activities and Functions

- To work effectively with relevant administrative, technical and academic staff in the School and across the University.
- To carry out specific administrative roles and functions as may be reasonably required.
- To take part in and, on occasion, act as chair of one or more School committees.
- To engage in training programmes in the University (e.g. through Staff Development) which are consistent with your needs and aspirations and those of the School.
- To undertake such other duties as may be reasonably requested and that are commensurate with the nature and grade of the post.
- To engage fully with the annual Performance and Development Review (PDR) process.

Points To Note

The purpose of this job description is to indicate the general level of duties and responsibility of the post. The detailed duties may vary from time to time without changing the general character or level of responsibility entailed

Special Conditions

All staff have a statutory responsibility to take reasonable care of themselves, others and the environment and to prevent harm by their acts or omissions. All staff are therefore required to adhere to the University's Health, Safety and Environmental Policy & Procedures.

All staff should hold a duty and commitment to observing the University's Equality & Diversity policy and procedures at all times. Duties must be carried out in accordance with relevant Equality & Diversity legislation and University policies/procedures.

Successful completion of probation will be dependent on attendance at the University's mandatory courses which include Respecting Diversity and, where appropriate, Recruitment and Selection.

Organisational Responsibility

Reports to the: Dean of School

Person Specification

Your application will be reviewed with respect to meeting the essential and desirable criteria listed below. Applicants are strongly advised to explicitly state and evidence how they meet each of the essential (and desirable) criteria in their application. Stages of assessment are as follows:

- 1 – Application
- 2 – Test/Assessment Centre/Presentation
- 3 – Interview

Essential Criteria

Area	Criteria	Stage
Experience	Evidence of research and/or academic activity in Engineering Geology consistent with the needs of the Geotechnical Engineering Group in the School of Civil and Building Engineering	1
	Experience of working in a high quality academic research environment including experience at post-doctoral level.	1
	Evidence of authoring original work, in the highest quality refereed academic journals.	1
	Candidates from outside of academia must be able to demonstrate the ability to make the transition to becoming a top academic	1,2,3
Skills and abilities	Ability to develop an original research programme on your own initiative and to persuade others of its importance.	2,3
	Ability to identify and develop potential social / cultural / economic impact from professional activity.	2,3
	Knowledge of research and enterprise funding opportunities in UK HE and understanding of how to secure funding.	2,3
	A clear trajectory towards achievements at a higher academic level.	1,2,3
	Excellent communication and interpersonal skills which give you the ability to engage with students, colleagues, business and other agencies on a wide variety of matters.	1,2,3
	Ability to work as part of and to lead a team.	2,3
	Excellent IT skills.	1
Training	Commitment to and evidence of continuing professional development.	1,3
Qualifications	Relevant PhD or equivalent experience.	1
Other	Commitment to observing the University's Equal Opportunities policy at all times.	1,3

Desirable Criteria

Area	Criteria	Stage
Experience	Experience of presenting research work at international conferences.	1
	Experience of teaching and assessment at undergraduate and postgraduate level in the area of engineering geology	1,3
	Experience of successfully supervising the projects of taught and research students or company staff at equivalent levels.	1,3
	Experience of work in or in collaboration with industry.	1
Skills and abilities	Ability to take part in module and programme development.	3
	Knowledge of the challenges faced in UK HE.	1
Qualifications	Achieved or progressing towards appropriate professional status.	1

Conditions of Service

The position is full time and open ended. Salary will be in the Research Teaching and Enterprise Grade 6/7 (£34,956 - £46,924) per annum, at a starting salary to be confirmed on offer of appointment. The appointment will be subject to the University's normal Terms and Conditions of Employment for Academic and Related staff, details of which can be found:

<http://www.lboro.ac.uk/services/hr/a-z/conditions-of-service.html>

The University is committed to enabling staff to maintain a healthy work-home balance and has a number of family-friendly policies which are available at:

<http://www.lboro.ac.uk/services/hr/a-z/family-leave-policy-and-procedure---page.html>

We also offer an on-campus nursery with subsidised places, subsidised places at local holiday clubs and a childcare voucher scheme, further details are available at:

<http://www.lboro.ac.uk/services/hr/a-z/childcare-information---page.html>

In addition, the University is supportive, wherever possible, of flexible working arrangements. We also strive to create a culture that supports equality and celebrates diversity throughout the campus. The University holds a Bronze Athena SWAN award which recognises the importance of support for women at all stages of their academic career. For further information on Athena SWAN see <http://www.lboro.ac.uk/services/hr/athena-swan/>



Informal Enquiries

Informal enquiries should be made to Professor Neil Dixon, Head of Geotechnical Engineering Group, by email at n.dixon@lboro.ac.uk or by telephone on 01509 228542

Applications

To apply, you must provide the following:

- A completed standard application form
- A full CV including a full publications list.
- An outline (typically 2 sides A4 max.) proposal setting out your intentions in the post.

The closing date for receipt of applications is **25 April 2017**.