



Candidate Information

Position:	Lecturer/Lecturer (Education) in Structural Engineering and Design
School/Department:	School of Natural and Built Environment
Reference:	19/107336
Closing Date:	Monday 6 May 2019
Salary:	£36,261 - £50,132 per annum (potential to progress to £53,175 per annum through sustained exceptional contribution)
Anticipated Interview Date:	Week commencing 20 May 2019

Job Purpose

To undertake research (pedagogy for Lecturer Education) in line with the research strategy and targets of the Civil Engineering Discipline within The School of Natural and Built Environment, The Faculty of Engineering and Physical Science (EPS) and in line with the Queen's University's vision of world class leadership and impact on society. Particular emphasis will be placed on the subject of Structures, both analysis and design, with the teaching and research complementing and enhancing the existing structures team. To teach at undergraduate and/or postgraduate level. To contribute to the continuous improvement of curriculum content, student employability and widening the overall student experience through interdisciplinary projects. The successful candidate is expected to become a member of one of the professional accrediting institutions for our degree programmes.

MAIN ACTIVITIES/RESPONSIBILITIES:

The following describes the type of work that is typically required of academic staff at this level. It is not expected that anyone carries out all the activities mentioned below and some carry out additional duties.

1. Education - 40%-60% of time spent Lecturer / 80% plus- Lecturer (Education)

- Develop teaching methods, design course units and deliver teaching and assessment activities in Civil Engineering, including lectures, tutorials and coursework, as assigned by the Head of School (or nominee) within the School of Natural and Built Environment.
- Develop approaches to teaching and learning, which are appropriate for the subject area; reflect developing practice and contribute to the enhancement of quality teaching within the subject, school and/or faculty.
- Develop and advise others on learning and teaching tasks and methods.
- Contribute to the design of innovative teaching programmes.
- Plan for and set teaching and research objectives over a number of years.
- Design/update modules in line with School's teaching strategy.
- Communicate complex and conceptual ideas to students as well as to peers using high level skills and a range of media.
- Embed design experience from time in practise (Lecturer Education) within the core design modules at all programme stages.
- Contribute to improving the student experience and increased recruitment at national and international levels.

2. Research - 20%-30% of time spent Lecturer

- Conduct research in areas of Structural Engineering that complement and enhance the Structure Group within the discipline, sustaining a personal research plan by managing and undertaking research activities leading to a REF return in Engineering.
- Sustain a high quality publication record by publishing in refereed journals and presenting at conferences to assist individual research to enhance the School's research profile.
- Develop research proposals and funding bids, in collaboration with others as appropriate.
- Assist with building, supervising and sustaining the research group within the School.
- Direct, coach and develop research staff, where appropriate.
- Ensure that research projects are completed on time and within budget.
- Prepare research proposals for submission for external funding.
- Build a research profile that will secure measures of esteem commensurate with stage in career.
- Develop networks of research excellence both nationally and internationally.

3. Leadership and Administration - 10%-20% of time spent

- Contribute to the School's outreach strategy by developing external links.
- Develop links with relevant industries or external bodies to encourage technology transfer opportunities and create opportunities for future research projects.
- Provide pastoral care for students within own area to ensure, as far as practicable, that all relevant issues are dealt with in a timely, sympathetic and effective manner.
- Carry out designated School functions, including, for example, participation in committee work, assisting in the process of admissions, preparation of submission for teaching quality assessment or the REF.
- Plan and manage own teaching and tutorials as agreed with Head of School (or nominee).
- As module leader, co-ordinate with others (such as support staff or academic colleagues) to ensure student needs and expectations are met.
- Plan for the use of teaching and research resources and manage as appropriate.
- If appropriate, supervise the work of others, for example in research teams and projects.
- Manage own teaching, research and administrative demands under general supervision of Head.
- Assist in the development of skills and competence in others (for example through the supervision of research students).
- Participate in judgements regarding the use of resources within their research project/school.
- Act as mentor for students in capacity of personal tutor.
- Mentor colleagues with less experience and advise on personal development.
- Member of the School Board, Civil Engineering Board and Examination Board along with such committees relevant to their administrative duties.
- Contribute to University international campus agreements as required.
- Participate in and develop networks, for example to identify sources of funding, contribute to student recruitment, act as website editor, secure student placements, market the institution, facilitate outreach work, generate income, obtain consultancy projects, or build relationships for future activities.

ESSENTIAL CRITERIA

- Hold or be about to obtain a PhD in Civil or Structural Engineering within the specialist area of Structures.
- 2(i) First degree, or higher, in Civil Engineering or a related subject.
- Evidence of potential to deliver high quality teaching in Civil Engineering Subjects at undergraduate or postgraduate level through the medium of English or, for Lecturer Education, 5 years experience of leading design teams in engineering practice.
- A strong record of publications, commensurate with career stage, in the Structural Engineering field in peer reviewed/refereed journals that are REF returnable within the Engineering Unit of Assessment. Or, for Lecturer Education, a portfolio of design experience on a range of structural engineering design applications.
- Commitment to applying for and obtain peer reviewed research income from research councils and other relevant funding bodies (including pedagogical research for Lecturer Education).
- Willingness to supervise research students and postdoctoral researchers.
- Commitment to strengthening the international excellence in research at the School of Natural and Built Environment and to developing collaborative networks.
- A clear vision on future research and development plans and how they would benefit the School.
- Evidence for developing and maintaining an independent research programme.
- Evidence of scholarly activity, e.g. conference presentations, book or papers reviews.
- High level of analytical capability.
- Evidence of collaboration with and links to industry, or other activities aiming at achieving broader societal and economic impact.
- Evidence of social engagement and outreach activities.
- Ability to communicate complex information effectively and encourage commitment to learn in others.
- Ability to communicate effectively in English, both orally and in writing.
- Demonstrable intellectual ability and good time management.

DESIREABLE CRITERIA

- PhD in aspects of Structural Engineering.
- Background in Structural Analysis and Design.
- Completed PGCHET or an equivalent teaching qualification.
- Experience of teaching Mathematics in tertiary level education.
- Evidence of good teaching evaluations.

- Experience in design of new modules and/or assessment methods
- A record of publications in relevant high SNIP journals
- A record of successful grant applications.
- Successful supervision of PhD or Masters students.
- Evidence of successful research collaboration, participation in collaborative networks or research teams.
- Plenary or invited talks at international conferences.
- Measurable societal and economic impact such as contribution to industry roadmaps and technology transfer to industry, with associated evidence.