



UNIVERSITY OF LEEDS

CANDIDATE BRIEF

Lecturer in Railway Infrastructure Engineering, School of Civil Engineering



Salary: Grade 7 (£33,797 - £40,322 p.a.)

Reference: EPSCV1011

Closing date: 19 January 2020

We will consider flexible working arrangements

Lecturer in Railway Infrastructure Engineering School of Civil Engineering

Are you an influential academic with the ability to carry out teaching and research in railway infrastructure engineering and related topics? Do you have an excellent research record and the vision and drive to tackle new challenges? Are you passionate about delivering an exceptional student experience in a research-intensive Russell Group University?

We are seeking applicants who will develop leading research and/or innovation in education in the field of railway infrastructure engineering, but just as importantly work at the interface with other disciplines. In line with our wider ethos of inter-disciplinarity we are open to a broad definition of the discipline and will place greater importance on the impact, originality and potential for work across disciplines than on a particular topic. As a Lecturer, you will carry out research, teaching and management within the School, Faculty and University. You will also contribute to academic leadership in the field of Railway Engineering, while developing and delivering railway engineering related modules for the MSc in Railway Engineering with Project Management and Undergraduate programme in Civil Engineering with Transport programme at University of Leeds, and the joint programme at Southwest Jiaotong University, Chengdu, China. A strong feature of teaching at Leeds is the extensive use of design project work and you would be expected to bring enthusiasm and preferably practical skills to this area of the curriculum.

The University has a large breadth of railway research expertise and is currently developing a new [Institute for High Speed Railway and Systems Integration](#). Highlights of the new institute include:

- Significant investment to develop a world leading railway track and earthworks test facility. This facility will allow for full-scale track-embankment structures to be constructed and tested under realistic, yet accelerated, high speed train loading. Therefore, many years worth of train passages can be simulated in a matter of days, thus replicating long-term track behaviour.
- Large investment to develop a world leading railway vehicle test facility; and
- Unique financial support for developing the Systems Integration and Innovation Centre to work closely with the above two initiatives.

The institute will complement other university-based research centres in the UK and respond to industry demand for undergraduate and postgraduate skills in railway



engineering and systems, and other related areas. The post of Lecturer in Railway Engineering has been created to accelerate the growth of the Institute, by raising its international research and education profile.

What does the role entail?

As a Lecturer your main duties will include:

- Pursuing, leading and developing the strategic direction of research, innovation and impact at an appropriately benchmarked level, attracting research income on an individual and collaborative basis to underpin high quality research activity and programmes/projects;
- Being recognised as an authority in the area of railway infrastructure engineering. This may include, but is not limited to areas such as railway track behaviour, railway structures, railway sensing, railway geotechnics, and railway vibration.
- Developing and maintaining an external profile as appropriate to your discipline;
- Maintaining a high quality record of regular and original research publications that are of national and international standing;
- Promoting the integration of your own research area with other research interests within and, as appropriate, outside the School, Faculty and University;
- Providing high quality postgraduate supervision and attracting research students to the University, and supervising other students as appropriate;
- Undertaking research-led teaching at different levels on undergraduate and/or postgraduate taught courses, regularly collecting, and responding to, student feedback as well as being involved in the assessment of course work and examinations;
- Playing a significant role in the design, development, planning and review of modules and programmes within the subject area as required;
- Contributing to the management and administrative processes and committee structures of the School, Faculty and University;
- Managing or leading major initiatives or areas of work (as either sustained or one-off projects) as well as taking on leadership roles which facilitate School, Faculty or University performance or business as required.

These duties provide a framework for the role and should not be regarded as a definitive list. Other reasonable duties may be required consistent with the grade of the post.



What will you bring to the role?

As a Lecturer you will have:

- A PhD (or successful submission of your PhD thesis) in a subject related to railway infrastructure engineering or with equivalent professional experience. As the role requires engagement with civil engineering infrastructure, civil engineering expertise is desirable;
- A track record of research outputs in refereed publications of internationally excellent quality;
- Experience of bidding for external research funding at a level commensurate with the stage in career;
- Ability to contribute to and develop interdisciplinary collaborative research projects in a broad range of areas;
- Ability to teach in a University environment, with an enthusiastic approach to teach railway infrastructure engineering and the ability to interact with students in ways that will enhance the student experience;
- Willingness to travel and work away from the UK for short periods of time (typically 6-8 weeks in a calendar year) to deliver modules at partner institutions abroad;
- Outstanding communication and team working experience, including the ability to manage resources and/or staff;
- A strong commitment to your own professional development;
- Evidence of the ability to build trust to ensure engagement and commitment, and to treat staff fairly, with respect and dignity.

You may also have:

- Experience of obtaining external research funding;
- Experience of teaching effectively within higher education;
- Experience of programme/academic leadership;
- An ability to build partnerships with industrial, professional and public sector organisations on interdisciplinary collaboration, knowledge exchange and funding.

How to apply

You can apply for this role online; more guidance can be found on our [How to Apply](#) information page. Applications should be submitted by **23.59** (UK time) on the advertised [closing date](#).



Contact information

To explore the post further or for any queries you may have, please contact:

[Dr David Connolly](#)

Tel: +44 (0)113 343 6304

Email: d.connolly@leeds.ac.uk

Additional information

Faculty and School Information

Further information is available on the research and teaching activities of the [Faculty of Engineering](#) and the School of [Civil Engineering](#).

A diverse workforce

The Faculty of Engineering is proud to have been awarded the [Athena Swan Silver Award](#) from the Equality Challenge Unit, the national body that promotes equality in the higher education sector. Our [equality and inclusion webpage](#) provides more information.

Working at Leeds

Find out more about the benefits of working at the University and what it is like to live and work in the Leeds area on our [Working at Leeds](#) information page.

Candidates with disabilities

Information for candidates with disabilities, impairments or health conditions, including requesting alternative formats, can be found on our [Accessibility](#) information page or by getting in touch with us at disclosure@leeds.ac.uk.

Criminal record information

Rehabilitation of Offenders Act 1974

A criminal record check is not required for this position. However, all applicants will be required to declare if they have any 'unspent' criminal offences, including those pending.



Any offer of appointment will be in accordance with our Criminal Records policy. You can find out more about required checks and declarations in our [Criminal Records](#) information page.

