University of Nottingham
UK | CHINA | MALAYSIA

Role profile

Job title	Research Associate/Fellow The title Associate will be given until completion of relevant PhD.	Job family and level	Research and Teaching Level 4
School/ Department	Civil Engineering	Location	University Park

Purpose of role

The purpose of this role will be to assist and support the research team in carrying out academic research which include literature searches, developing questionnaires, conducting surveys, liaising with industry stakeholders, running workshops, carrying out analyses and drafting of reports.

	Main responsibilities (Primary accountabilities and responsibilities expected to fulfil the role)	% time per year
1	To undertake supervised research related to various research projects at the Resilience Engineering Group associated with risk, reliability and resilience analyses	40%
2	To conduct literature and database searches and carry out workshops, stakeholder interviews, analyses and/or critical evaluations using specified and agreed techniques, approaches and/or models and document findings.	20%
3	To contribute to the production of research reports and publications.	10%
4	To prepare and present papers on research progress and outcomes to relevant groups including external bodies	10%
5	To liaise with industry stakeholders in relation to project deliverables	5%
6	To communicate information and ideas to students and advise and assist other staff/students within area of expertise.	5%
7	To build relationships with internal and external contacts to develop knowledge and understanding and form relationships for future collaborations.	5%
8	To work in conjunction with others at Resilience Engineering Group, achieve objectives and deadlines of various research projects.	5%

Person specification

	Essential	Desirable
Skills	▪ Proven research skills ▪ Ability to plan and conduct stakeholder engagement workshops for railway industry ▪ Excellent oral and written communication skills, including the ability to communicate with clarity on complex information. ▪ Ability to assess and organise project requirements and deploy effectively. ▪ Ability to build relationships and collaborate with others, both internally and externally. ▪ Ability to work in a team, lead and collaborate actively and professionally with industrial partners. ▪ Self-motivated and ability to work with minimum supervision.	▪ Ability to foster a research culture and commitment to learn. ▪ Ability to take initiative. ▪ Ability to lead, teach & mentor other researchers and students
Knowledge and experience	▪ Experience of management of research projects, including liaison with sponsors. ▪ Experience of report writing and publication of research results in journals and conferences. ▪ Experience of publication of high-quality academic papers ▪ Previous experience in a research environment. ▪ Analytical methods relevant to engineering research ▪ Direct experience of railway disruption modelling and railway asset condition monitoring ▪	▪ Experience in railway asset management and failure mode identification and analysis ▪ Expertise in Resilience Engineering ▪ An understanding of modern computational methods; problem-solving ability; innovative thinking; and the need of resilience modelling approaches.
Qualifications, certification and training (relevant to role)	▪ PhD Engineering qualification or expected PhD completion soon	▪ Research experience in railway resilience

Expectations and behaviours

The University has developed a clear set of core expectations and behaviours that our people should be demonstrating in their work, and as ambassadors of the University's strategy, vision and values. The following are essential to the role:

Valuing people	Is friendly, engaging and receptive, putting others at ease. Actively listens to others and goes out of way to ensure people feel valued, developed and supported.
Taking ownership	Is clear on what needs to be done encouraging others to take ownership. Takes action when required, being mindful of important aspects such as Health & Safety, Equality, Diversity & Inclusion, and other considerations.
Forward thinking	Drives the development, sharing and implementation of new ideas and improvements to support strategic objectives. Engages others in the improvement process.
Professional pride	Is professional in approach and style, setting an example to others; strives to demonstrate excellence through development of self, others and effective working practices.
Always inclusive	Builds effective working relationships, recognising and including the contribution of others; promotes inclusion and inclusive practices within own work area.

Key relationships with others

