



Job title	Research Associate/Fellow	Job family and level	Research and Teaching Level 4A (RT4CTG)/RT4
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, carrying out analyses and tests 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 research project "Sustainable Road Construction to Aid Mobility and Inclusive Rural Economies in Developing Nations" at the Nottingham Transportation Engineering Centre (NTEC)	40
2	To conduct literature and database searches and carry out analyses and/or tests 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 technical staff in relation to experimental work	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 NTEC, achieve objectives and deadlines of various research projects.	5

Person specification

	Essential	Desirable
Skills	<ul style="list-style-type: none"> ▪ Proven research skills ▪ Experimental – ability to carefully plan and execute small-scale laboratory experiments ▪ Excellent oral and written communication skills, including the ability to communicate with clarity on complex information. ▪ Ability to assess and organise resource 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. 	<ul style="list-style-type: none"> ▪ 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	<ul style="list-style-type: none"> ▪ 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 asphalt materials ▪ Knowledge of asphalt chemistry and rheology 	<ul style="list-style-type: none"> ▪ Experience in multiscale modelling of bituminous materials ▪ Expertise in Pavement Engineering ▪ An understanding of modern computational methods; problem-solving ability; innovative thinking; and mechanical, physical and chemical properties of viscoelastic materials.
Qualifications, certification and training (relevant to role)	<ul style="list-style-type: none"> ▪ Awarded PhD (or near completion) in Civil, Mechanical, or Materials Engineering, or a closely related field from a research-led university 	<ul style="list-style-type: none"> ▪ Research experience in asphalt materials



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



