



UNIVERSITY OF LEEDS

CANDIDATE BRIEF

Research Fellow in Future Mobility Systems, Institute for Transport Studies



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

Reference: ENVTR1115

Closing date: 12 January 2020

Interviews are expected to be held 16 or 17 January 2020

Fixed-term until 15 October 2021 (due to external funding)

We will consider job share / flexible working arrangements

Research Fellow in Transport Data Analysis Institute for Transport Studies

Would you like to join the largest national research centre on energy demand in the UK? Do you want to further your career by applying your quantitative data analysis skills as part of a leading research group on transport and energy at the world-renowned Institute for Transport Studies?

You will join a large team within the Institute for Transport Studies (ITS) that conducts research on transport and mobility patterns and low carbon transitions. The team, led by Professor Jillian Anable, is funded by a suite of grants involving senior and junior academics from a wide range of disciplines including geography, economics, engineering, mathematics and environmental science. Projects include CREDS (www.creds.ac.uk), UKERC (www.ukerc.ac.uk) and this fellowship funded by ClimateXChange (www.climatexchange.org.uk). This work is centred on understanding the determinants of energy demand and the mechanisms by which to reduce it.

This post-doctoral fellowship (PDRF) will undertake a focused study to develop a segmentation model of Future Mobility attitudes and behaviour in Scotland. The role will involve the development of a questionnaire survey to be administered to a large sample of Scottish residents and using a suite of multivariate statistical techniques to identify meaningful and policy-relevant population subgroups to inform transport and energy modelling and decision making.

You will have a PhD in a relevant related discipline with proven quantitative data collection skills. You will be able to demonstrate a strong upward research trajectory evidenced by high-quality peer-reviewed publications. You will also have a desire to engage extensively with key stakeholders including UK Government and industry.

There will also be opportunities to contribute to wider research and teaching initiatives across the School and Faculty.



What does the role entail?

As Research Fellow, your main duties will include:

- Working with Professor Jillian Anable and ITS staff involved in cognate activities to develop a detailed forward plan to design and execute the survey work, undertake the analyses and test the results with stakeholders in Scotland;
- Undertaking survey design based on thorough search and collation of relevant surveys, datasets and theories and procuring and working with a survey company to administer the survey;
- Using creativity to analyse and interpret the questionnaire data using descriptive and multivariate data analysis, including cluster and discriminant analysis;
- Using creativity to analyse and interpret research data and draw conclusions on the results, including salient, realistic and practical conclusions on policy and methodology;
- Developing scenarios for low energy travel demand futures in the light of new service and technological developments as input into UK transport system and energy models;
- Preparing papers for publication in leading international journals and disseminating research results through other recognised forms of output;
- Working both independently and also as part of a larger team of researchers, engaging in knowledge-transfer activities where appropriate and feasible;
- Maintaining your own continuing professional development and acting as a mentor to less experienced colleagues as appropriate;
- Contributing to the training of both undergraduate and postgraduate students, including assisting with the supervision of projects in areas relevant to the project.

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 Research Fellow you will have:

- A PhD in Transport Studies or a closely allied discipline;



- Training in or detailed experience of the study of human behaviour and the relationship between rich sets of socio-demographic and psychographic factors such as attitudes, perceptions, acceptance, personality, lifestyles and action;
- Experience in the design of questionnaire surveys;
- A track record of innovative quantitative analysis of data sets which demonstrates an understanding of appropriate fundamental and applied statistical knowledge, methodologies and computational tools;
- Good time management and planning skills, with the ability to meet tight deadlines, manage competing demands and work effectively under pressure without close support;
- A proven track record of peer-reviewed publications in high impact factor journals;
- Excellent written and verbal communication skills including presentation skills;
- A proven ability to work well both individually and in a team;
- A strong commitment to your own continuous professional development.

You may also have:

- Specific experience applying factor and cluster analyses to segment sample populations;
- Ability to work with spatial analysts to examine patterns in mobility behaviours and their associations at different levels of geography;
- Experience of engaging extensively with key stakeholders;
- Enthusiastic approach and helpful manner combined with a willingness to help colleagues during times of pressure;
- Willingness and aptitude to become proficient in new areas.

How to apply

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

Your application should include:

- A copy of your curriculum vitae giving full details of qualifications and experience;



- Applicants are encouraged to submit examples of their work, in particular showing evidence of the sort of creative extensions that the project requires.

Contact information

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

Professor Jillian Anable, Chair in Transport and Energy

Tel: +44 (0)7930 330 155

Email: J.L.Anable@leeds.ac.uk

Additional information

Find out more about the [Centre for Research into Energy Demand](#).

Find out more about the [Institute for Transport Studies](#).

Find out more about the [Faculty of Environment](#).

Find out more about [Athena Swan](#) in the Faculty.

Find out more about our [Research and associated facilities](#).

A diverse workforce

The Faculty of Environment has received a prestigious Athena SWAN silver award from [Advance HE](#), the national body that promotes equality in the higher education sector. This award represents the combined efforts of all schools in the Faculty and shows the positive actions we have taken to ensure that our policies, processes and ethos all promote an equal and inclusive environment for work and study.

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.

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.

