



UNIVERSITY OF LEEDS

CANDIDATE BRIEF

**Research Fellow: New Generation Data and Transport-Pollutant Health
Institute for Transport Studies, Faculty of Environment**



Salary: Grade 7 (£32,004 – £38,183 p.a. pro rata)

Please note that due to funding limitations an appointment will not be made above £34,956 pro rata

Reference: ENVTR1041

Closing date: 20 March 2017

**Fixed-term until 13 February 2018 (external funding), part time at 67%
full time equivalent**

Research Fellow: New Generation Data and Transport-Pollutant Health

Institute for Transport Studies, Faculty of Environment

Are you an ambitious researcher looking for your next challenge? Do you have a background in Transport and health issues related to active travel? Do you want to further your career in one of the UK's leading research intensive Universities?

Working alongside [Professor Susan Grant-Muller](#), [Dr Nick Malleson](#), [Frances Hodgson](#) and a second Research Fellow, you will contribute to the successful delivery of the [Economic and Social Research Council \(ESRC\)](#) funded project HABITS. The aim of the project is to utilise new generation mobile phone 'Track and Trace' (T&T) data in a transport policy context and explore the challenges, methodologies and policy implications related to its use in reducing individual health burdens. The project will research new methods and tools to investigate the cross-referencing and integration of real-time T&T data with existing and emerging databases such as pollution data and new approaches to modelling health impacts arising from exposure and the individual patterns of travel activity.

Working closely with academics and city stakeholders, your focus will involve research and administrative tasks including sourcing and preparing data, modelling, analysis of data and engaging with city stakeholders to generate transport and health related policy insights.

With a PhD (or close to completion) in a Transport related field or with PhD equivalent experience (with a masters level qualification in Transport as a minimum), you will also have a strong background in a transport pollutant related field. With a knowledge and understanding of local UK transport policy, you will also have well developed analytical skills and experience of the identification and collation of statistics.

What does the role entail?

As a Research Fellow your main duties will include:

- Working with and in support of the collaborative and multidisciplinary research team to ensure the project is successfully completed;



- Contributing to setting the direction of particular tasks in the research project as appropriate;
- Independently writing reports, undertaking literature reviews and searches using narrative and systematic approaches and preparing papers for publication in leading international journals. Preparing draft press/publicity statements and web content, with guidance as necessary;
- Working both independently and participating in the larger team of researchers and stakeholders to generate and present research output where appropriate;
- Contributing to research results and outputs and to the generation of independent and original ideas, ensuring a successful programme of investigation;
- Critical policy examination and analysis using existing policy documents., e.g. the Local Transport Plan;
- Identification, retrieval and processing of existing datasets for example; mobilities 'track and trace' (T&T) datasets; social media data; spatial health datasets; pollution data; National Travel Survey (NTS); and Census data, for use in models and modelling techniques;
- Evaluating methods and techniques used and results obtained by other researchers and to relate such evaluations appropriately to your own work. Specifically, identifying, use and adaptation (as appropriate) of a variety of modelling and analysis techniques and software (e.g., use of common software such as Statistical Package for the Social Sciences (SPSS) and specialist software such as the Integrated Transport Health Model), including data preparation, adaptation to T&T data and analysis of outputs;
- Using visualisation techniques to describe and model findings, to both technical and non-technical audiences;
- Creating and/or contributing to simple on-line and interactive tools for policy exploration;
- Administrative tasks including organising stakeholder meetings, workshops, the preparation of materials for different audiences, updating the sponsors main portal for outputs (Research fish) and research output repositories;
- Maintaining your own continuing professional development, acting as a mentor to less experienced colleagues as appropriate and contributing to the research culture of the University, where appropriate.



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 (or close to completion) in a Transport related field or PhD equivalent experience (with a masters level qualification in Transport as a minimum);
- A strong background in a transport pollutant related field, such as a formal qualification or demonstrated track record related to transport emissions/pollutants;
- Demonstrated experience of conducting academic research;
- First-hand experience of using and creating or adapting models, software or techniques, including spreadsheet models;
- First-hand experience of identifying, using, combining and analysing multiple datasets and sources (including existing published quantitative datasets, such as NTS);
- Knowledge and understanding of local UK transport policy for active travel and concerning transport related emissions, pollutants and their relation to health policy;
- Knowledge and application of theory concerning travel choices;
- Experience of the use of graphics and visualisation techniques of findings for technical and non-technical audiences;
- Ability to create and contribute content towards simple on-line and interactive tools for policy exploration;
- Good time management and planning skills, with the ability to manage competing demands, meet tight deadlines and work effectively under pressure, using your own initiative where appropriate;
- Excellent written and verbal communication skills including presentation skills and the ability to communicate effectively with a wide range of stakeholders.

You may also have:

- Experience of working with smartphone apps and 'track and trace' data;
- Experience and knowledge in the analysis of human health data;
- A background or experience in dealing with issues concerning gender and/or vulnerable groups;



- Track record of working with City stakeholders and policy makers;
- Knowledge and experience with ethical processes and the handling of sensitive information;
- A track record of successful, high quality, publications.

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:

Professor Susan Grant-Muller, Professor of Technologies and Informatics

Tel: +44 (0)113 343 6618

Email: S.M.Grant-Muller@its.leeds.ac.uk

Additional information

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

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

Find out more about our [School of Geography](#).

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

Find out more about Equality and Inclusion and Athena Swan in the [Faculty](#) and the [University](#).

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.

