



**UNIVERSITY OF LEEDS**

## **CANDIDATE BRIEF**

**Research Fellow in Data Analysis and Impact Assessment of Connected Transport and Highly Automated Vehicles, Institute for Transport Studies**



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

**Reference: ENVTR1112**

**Fixed term: until 31 May 2022 (due to external funding)**

# **Research Fellow in Data Analysis and Impact Assessment of Connected Transport and Highly Automated Vehicles**

## **Institute for Transport Studies (ITS)**

**Are you an ambitious researcher looking for your next challenge? Do you have a background in big data analytics and evidence-based assessment of driver behaviour and acceptance of connected, cooperative and automated transport? Do you want to further your career in one of the UK's leading research intensive Universities?**

ITS has been awarded the three-year PAsCAL project from H2020 which aims to create the Guide2Autonomy, a novel framework that will improve the understanding of the implications of Connected and Autonomous Vehicles on society as well as educate their future drivers, passengers and those who will have to share the road with them. PAsCAL will make use of a strongly interdisciplinary mix of tools from both human and technological sciences (e.g. big data analytics, deep learning), to capture the public's acceptance and attitude, analyse and assess their concerns, identify major obstacles/barriers that may hinder the social acceptance of CAVs, model and simulate realistic scenarios for the creation of best practices, and validate its findings in a number of real-world trials.

You will work with and in support of Dr Chen's research to ensure project tasks are successfully completed. Primarily you will be working on the PAsCAL project and additionally will support other projects as and when required (and thus the contract may be extendable where appropriate).

### **What does the role entail?**

As Research Fellow, your main duties will include:

- Working with and in support of Dr Chen's research to ensure the PAsCAL project is successfully completed. you may also support other projects as and when required;
- Generating and pursuing original research ideas in big data analytics, impact assessment and scaling-up;
- Developing research objectives and proposals and contributing to setting the direction of the research project and team including, where appropriate preparing proposals for funding in collaboration with colleagues;



- Evaluating methods and techniques used and results obtained by other researchers and to relate such evaluations appropriately to your own work;
- Communicating or presenting research results through publication or other recognised forms of output;
- Preparing papers for publication in leading international journals and independently writing reports;
- 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 research culture of the Institute, where appropriate;
- Contributing to the training of both undergraduate and postgraduate students, where appropriate, 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 Research Fellow you will have:

- A PhD or near completion - i.e. the initial thesis needs to have been handed in at the point of application in Transport, Engineering, Computing Science, Social Science, or Mathematics and Statistics or a closely allied discipline, or significant work experience relevant to connected transport, autonomous vehicles, driving behaviour;
- A strong background in (quantitative or qualitative) analysis of data from various sources such as GPS devices, vehicles, apps, attitudinal surveys of user acceptance;
- Experience in correlation analysis of driver behaviour/reaction under different traffic and environment conditions and use of data analysis software such as SPSS, MATLAB, Excel macros;
- A good track record of high-quality publications in peer reviewed journals such as the aforementioned subjects;
- A track record of publications in top transportation journals (e.g. Transportation Research series, IEEE transactions on ITS);



- A track record of publications in relevant research areas (e.g. big data analytics, autonomous driving, user acceptance);
- Excellent written and verbal communication skills including presentation skills and the ability to communicate effectively with a wide range of stakeholders;
- A proven ability to work well both individually and in a team;
- Good time management and planning skills, with the ability to meet tight deadlines and work effectively under pressure;
- A strong commitment to your own continuous professional development.

You may also have:

- Proven ability to manage competing demands effectively, responsibly and without close support;
- A good understanding of transport modelling and traffic management.

## 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 closing date.

Your application should include:

- A supporting statement evidencing how you believe your existing knowledge and experience equips you to carry out the role;
- A copy of your curriculum vitae giving full details of qualifications and experience.

## Contact information

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

**Dr Haibo Chen, Principal Research Fellow**

Tel: +44(0)113 343 5355

Email: [H.Chen@its.leeds.ac.uk](mailto:H.Chen@its.leeds.ac.uk)



## Additional information

### Working at Leeds

You can find out more about our generous benefits package and more about what it is like to work at the University and live in the Leeds area in our [Working at Leeds](#) information.

### Candidates with disabilities

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

