

The Department of Landscape, Spatial and Infrastructure Sciences, Institute for Transport Studies is currently seeking a

Postdoctoral Research Associate project employment

(Reference code: 37)

Extent of employment: 40 hours per week
Duration of employment: from May 2023, limited to April 2025

Gross monthly salary and pay grade in terms of collective agreement for university staff (payable 14 times per year): B1 lit. b, € 4.351,90

The researcher will be part of the core team of a research group which aims to identify and analyse the impacts for digitalised and automated mobilities, co-sponsored by the Austrian Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology (BMK).

Responsibilities

- Participate in the on-going of behavioural analyses research and transport simulation system development to investigate mobility behaviour including new mobility services in the Greater Vienna region
- Interact with regional transport modellers, exchange data and modeling knowledge
- Contribute to ongoing and the acquisition of new third party funded projects at the institute
- To write publication of results in journals and active participation at (inter)national conferences
- To support the teaching and other institute's daily research and learning activities
- Contribute to organising event and initiatives within the institute

Required skills and qualifications

- Doctoral degree/PhD in Transportation and Urban Planning, Behavioural Analysis, Computer Science, Data Analytic, Civil Engineering and Water Management, Transportation or Civil Engineering (Physics Engineering, Computer Science, Urban or Spatial Planning, Geodesy and Geoinformation) or comparable subject
- Diploma degree in Transportation and Urban Planning, Behavioural Analysis, Computer Science, Data Analytic, Civil Engineering and Water Management, Transportation or Civil Engineering (Physics Engineering, Computer Science, Urban or Spatial Planning, Geodesy and Geoinformation) or other equivalent university degree
- Proficient (or Advanced) English language skills
- Proven ability to write and publish high quality scientific papers
- Experience in developing behavioural analysis and choice modelling
- Experience/training in (multi-agent or transport or related) computer simulation
- Some experience with object oriented programming skills (e.g. Java) or big data analyses
- Experience with relevant scientific software packages (e.g. scripting languages, GIS systems, MATLAB, etc.)
- Interest in mobility behaviour and transportation

Desirable skills and qualifications

- Experience with common traffic simulation software (e.g. MATSim, SUMO, Visum, Aimsun, etc.) is a strong merit
- Experience with mainstream transport planning models (e.g. Visum, Emme, etc.) is also an advantage

- Previous experience in collecting primary data and/or big data analysis will be appreciated
- Extended technical skill set (e.g. virtual-reality, media technology, databases/SQL, high performance computing, etc.) is a plus
- Being proficient in German language and being familiar with Austrian transport research landscape are important assets
- Willingness to teach as well as provide didactical training
- Ability to self-organize and take responsibility for the performance of tasks

Applications can be submitted until: 21st of March 2023

University of Natural Resources and Life Sciences Vienna seeks to increase the number of its female faculty and staff members. Therefore qualified women are strongly encouraged to apply. In case of equal qualification, female candidates will be given preference unless reasons specific to an individual male candidate tilt the balance in his favour.

People with disabilities and appropriate qualifications are specifically encouraged to apply.

Please send your job application incl.

- Motivation letter
- CV
- Copy of degree certificates
- Up to 1 page description of programming experience in the past either with simulation or biometric data analyses
- Up to 1 page description of transport engineering/travel behaviour modelling experience in the past

to Personnel Management, University of Natural Resources and Life Sciences, Peter-Jordan-Straße 70, 1190 Vienna; E-Mail: kerstin.buchmueller@boku.ac.at. (**Reference code: 37**)

We regret that we cannot reimburse applicants travel and lodging expenses incurred as part of the selection and hiring process.

www.boku.ac.at