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

Postgraduate Research Associate
Project employment
(Reference code: 117)

<u>Extent of employment:</u>   30 Hours per Week
<u>Duration of employment:</u>   10/2020 (negotiable), limited to 09/2022
         (with the option of a limited extension until 2024)

Gross monthly salary and pay grade in terms of collective agreement
for university staff (payable 14 times per year): B1, € 2.196,80

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). The researcher will have opportunity to develop him*herself and expertise within the research group and the research institute in the field of transport demand analysis, behavioural and choice modelling, and will actively engage with relevant local stakeholders.

Responsibilities

- To develop demand analysis and develop a decision support system to analyse the impacts of microbility and/or other automation and digitalisation initiatives in Vienna and surrounding regions
- Working with existing transport modellers in the region to improve the existing transport modelling framework, in particular to anticipate the mixed use of traditional and new type of datasets
- 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

The researcher will be focused on analysing the impacts of digitalisation and automation in Vienna and surrounding regions. In particular to assess the plausible impacts of different mobility hub and service design to the public transport and micromobility demand.

Required skills and qualifications

- Degree in Computer Science or Transport Planning or Transport Engineering or Urban/Spatial Planning
- Have some experience in Transport and Mobility research and simulation (travel behaviour analysis, travel demand forecasting)
- Knowledge of relevant scientific software packages (Python, Java, R, Matlab/Octave,…)
- Some experience on programming, virtual reality, or software engineering and development skills
- Abilities to write and publish high quality scientific papers
- Good oral and writing skills in English are required
- Interest in mobility behaviour and research in the transport field
- Have interest to learn German

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Desirable skills and qualifications

- Experience and ability to construct a complex transport model and/or simulation platform is a strong merit
- Experience with programming languages (Python, Java) is a merit
- Knowledge of specialised software for agent-based simulation (e.g. MatSim or alike) is a merit
- Knowledge on psychology and behavioural sciences is a merit
- Being proficient in German language and being familiar with Austrian transport research landscape are important assets
- Experience of working with large scale or GPS-based datasets, or alike, is a merit
- Experience with analysing complex human decision making processes is a merit
- Experience in lecturing on relevant subject and supervision would be a plus

Applications can be submitted until: 31st of August 2020

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.

Please send your job application to Personnel department, University of Natural Resources and Life Sciences, 1190 Vienna, Peter-Jordan-Straße 70; E-Mail: kerstin.buchmueller@boku.ac.at. **(Reference code: 117)**

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

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