



Technische Universität Berlin



Research Assistant - salary grade E13 TV-L Berliner Hochschulen - 1st qualification period (PhD candidate)

part-time employment may be possible

Faculty V - Mechanical Engineering and Transport Systems, Institute of Land and Sea Transport / Sustainable Transport Systems and Data Science

Reference number: V-379/25 (starting at the earliest possible / for 5 years / closing date for applications 17/10/25)

About us:

The Chair of Sustainable Transport Systems and Data Science focuses on questions around sustainable mobility in urban and rural areas. To this end, it combines data-based modeling with participatory formats. In particular, we are developing open-source software for agent-based simulation of mobility decisions in synthetic populations with a longer-term time horizon.

Your responsibility:

- Collaboration in various research projects in the field of modeling longer-term mobility decisions and their impacts on ecologic, economic, and social sustainability indicators
- Assisting the department in research as well as teaching.
- Development and extension of agent-based mobility models.
- Collaboration on the preparation and implementation of model supported participatory formats such as Decision Theatres.
- Collaboration with national and international partners.

Your profile:

- Successfully completed university degree (Master, Diplom or equivalent) in transport science.
- Work experience in software development, preferably skills in the programming language Julia.
- Good skills in usage of data analysis software, e.g. Python.
- The ability to teach in German and/or in English is required; willingness to acquire the respective missing language skills.
- Experience with using versioning and shared programming infrastructures, e.g. Git/GitHub advantageous
- Experience with Linux (terminal), ideally in a high performance computing context advantageous
- Experience with larger programming projects advantageous
- Interest in science communication for various audiences advantageous
- Interest in sustainability topics advantageous

How to apply:

Please send your application **with the reference number** and the usual documents (curriculum vitae, A-level exam certificates, Diploma/Master certificate and, if applicable, references) **only by email** (combined in a single pdf file, max. 5 MB) to **sarah.wolf@tu-berlin.de**.

By submitting your application via email you consent to having your data electronically processed and saved. Please note that we do not provide a guaranty for the protection of your personal data when submitted as unprotected file. Please find our data protection notice acc. DSGVO (General Data Protection Regulation) at the TU staff department homepage: https://www.abt2-t.tu-berlin.de/menue/themen_a_z/datenschutzerklaerung/.

To ensure equal opportunities between women and men, applications by women with the required qualifications are explicitly desired. Qualified individuals with disabilities will be favored. The TU Berlin values the diversity of its members and is committed to the goals of equal opportunities. Applications from people of all nationalities and with a migration background are very welcome.

The vacancy is also available on the internet at:
<https://www.jobs.tu-berlin.de>

