Faculty of Transport Sciences „Friedrich List“

The Institute of Railway Systems and Public Transport has, subject to available funding, a vacancy at the Chair of Rail and Public Urban Transport for the position of a

**Research Assistant (m/f/d)**

(E 13 TV-L if the personal requirements are met)

initially until 31.12.2023 (duration of employment according to WissZeitVG) with the option of extension and the possibility of further academic qualification. The compatibility of family and career is a high priority. The position is also suitable for part-time employees. Please note this request in your application.

In our diverse research projects in the field of railway operation sciences, we investigate fundamental systemic interrelationships, further develop the theoretical procedures based on them and translate them into solutions for traffic and operational practice. The main focus is on the areas of performance, operational quality and operational planning as well as the development and modelling of sustainable operational processes and technologies for passenger and freight transport. We also research similar issues in the field of networked local public transport systems and contribute to the further development of the railway operation laboratory.

**Tasks:** Your activities in this context will focus on the following:

- further development of railway operation science models, methods and tools using AI models, optimisation approaches and simulation;
- development and evaluation of future-proof service offerings including digitalisation and automation approaches for rail and public transport;
- transfer of theoretical findings into practice and into the railway operation laboratory;
- participation in research projects for industry partners and scientific institutions;
- evaluation, documentation and publication of research results.

**Requirements:**

- successful scientific university degree (Master or Diploma) in the field of transport engineering, railway systems engineering, civil engineering with specialisation in railway operations, logistics, industrial engineering or comparable;
- in-depth knowledge of railway systems or local public transport systems;
- systematic and analytical way of working with clear target and deadline orientation;
- good knowledge of the German and English languages, both written and spoken;
- organisational and coordination skills as well as good communication and teamwork skills.

**We offer you:**

- working in a dynamic and international research environment in collaboration with industry and leading universities around the world;
- work in a unique research environment at the Faculty of Transport Sciences, which combines researchers and laboratories from a wide range of disciplines
- extensive opportunities for further education and training;
- job ticket for public transport in Dresden and the surrounding area, and flexible working hours.

If you have any questions, please contact Dr.-Ing. Jan Eisold at jan.eisold@tu-dresden.de.

Women are expressly invited to apply. The same applies to people with disabilities.

Please send your application with the usual documents by 14.10.2022 (postmark of the ZPS of the TU Dresden) preferably via the SecureMail Portal of the TU Dresden https://securemail.tu-dresden.de as one PDF document to bsrv@tu-dresden.de or to: TU Dresden, Fakultät Verkehrswissenschaften
“Friedrich List”, Institut für Bahnsysteme und Öffentlichen Verkehr, Professur für Bahnverkehr, öffentlicher Stadt- und Regionalverkehr, z. Hd. Herrn Dr.-Ing. Jan Eisold, Helmholtzstr. 10, 01069 Dresden. Your application documents will not be returned, please submit copies only. We will not pay the costs of presentation.

Note on data protection: We have made the rights you have and the purpose for which your data is processed, as well as further information on data protection, available for you on the website https://tudresden.de/karriere/datenschutzhinweis für Sie zur Verfügung gestellt.