



TUD Dresden University of Technology, as a University of Excellence, is one of the leading and most dynamic research institutions in the country. The Chair of Transport Modelling and Simulation at TUD Dresden University of Technology is investigating models, algorithms and simulations to achieve an enhanced scientific understanding of transport systems spanning microscopic, mesoscopic and macroscopic levels. Of particular focus will be automated planning methods that leverage emerging data and novel metrics that embed ethicsbased concepts including equity and fairness within mobility systems. This position will be closely involved in assisting of development and implementation of the new methodologies to create more equitable and efficient transport outcomes for society. For TUD diversity is an essential feature and a quality criterion of an excellent university. Accordingly, we welcome all applicants who would like to commit themselves, their achievements and productivity to the success of the whole institution.

At the **"Friedrich List" Faculty of Transport and Traffic Sciences, Institute of Transport Planning and Road Traffic**, the **Chair of Transport Modelling and Simulation** is seeking to employ an excellent and highly motivated student as

## Student Assistant / Research Assistant (m/f/x) (8-10h/week)

starting **as soon as possible**. The position is limited to 12 months. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz – WissZeitVG as well as the Higher Education Act in the Free State of Saxony - SächsHSG) in conjunction with the TdL guidelines (collective bargaining association for the German federal states) for Student Assistants and Research Assistants dated February 28, 2024.

Tasks: assistance in courses, academic support, esp.

- scientific research by conducting literature search and development activities related to transport modelling, network analysis, transport equity and fairness, transport optimisation and network design research.
- support in data collection and research visualisations

## **Requirements:**

- enrolled student in a relevant field eg., transportation engineering, mathematics, computer science
- have a programming background with experience in using Python, C/C++, and/or Java, etc.
- are passionate about transportation research, good technical understanding and basic modelling skills
- knowledge on the fundamentals of transportation systems optimization is an advantage
- dedication and enjoyment of independent work as well as the further development of your own skills
- team spirit and fair and open communication skills and good knowledge of English or German

## We offer:

- the opportunity to work in a diverse group
- a collaborative and innovative environment where creativity and teamwork are encouraged
- flexible working hours and mobile working to accommodate study commitments
- potential for academic and professional growth through contributions to publications or conferences

We welcome applications from candidates with disabilities. If multiple candidates prove to be equally qualified, those with disabilities or with equivalent status pursuant to the German Social Code IX (SGB IX) will receive priority for employment.

Please submit your application with the usual documents (curriculum vitae and transcripts) by June 13, 2025 (stamped arrival date of the university central mail service or the time stamp on the email server of TUD applies), preferably via the TUD SecureMail Portal https://securemail.tu-dresden.de\_by sending it as a single pdf file to katrin.gloeckner@tu-dresden.de or to: TU Dresden, Chair of Transport Modelling and Simulation, Frau Katrin Glöckner, Helmholtzstr. 10, 01069 Dresden, Germany. Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

**Reference to data protection:** Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: https://tu-dresden.de/karriere/datenschutzhinweis.