TUD Dresden University of Technology, as a University of Excellence, is one of the leading and most dynamic research institutions in the country. Founded in 1828, today it is a globally oriented, regionally anchored top university as it focuses on the grand challenges of the 21st century. It develops innovative solutions for the world's most pressing issues. In research and academic programs, the university unites the natural and engineering sciences with the humanities, social sciences and medicine. This wide range of disciplines is a special feature, facilitating interdisciplinarity and transfer of science to society. As a modern employer, it offers attractive working conditions to all employees in teaching, research, technology and administration. The goal is to promote and develop their individual abilities while empowering everyone to reach their full potential. TUD embodies a university culture that is characterized by cosmopolitanism, mutual appreciation, thriving innovation and active participation. 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, the Institute of Railway Systems and Public Transport invites applications for the

**Chair (W2) of Public Transport**

to be filled at the earliest possible date.

The chair's research focuses on advancing concepts and models for planning, network design, operation, and innovation in public transport and its integration into multi-modal mobility, while addressing the central role of public transport for intermodal mobility and the transition to sustainable transport systems. The aim is to further develop intelligent public transport services such as demand-responsive transport services, integration of autonomous vehicles, mobility-as-a-service concepts, multi-model mobility, reliability and flexibility of public transport, as well as concepts for planning, management, and operation. These shall be used to develop flexible, reliable, optimized, powerful and sustainable operational public transport concepts in cities and rural areas. To achieve these goals, innovative methods such as operations research, artificial intelligence, modeling, and simulation should be applied.

As the chair holder, you (m/f/x) will represent the scientific field of public transport operation and planning in teaching and research. You have to teach in the bachelor, master, and diploma programs at the "Friedrich List" Faculty of Transport and Traffic Sciences and contribute to teaching export to other faculties at TUD. We expect your participation in academic self-administration and your willingness to teach in English and German. One of your main tasks will be the successful acquisition of third-party funding from federal (DFG, BMBF et al.) or EU sources, as well as from industry partners. Your willingness to cooperate with other chairs of the "Friedrich List" Faculty of Transport and Traffic Sciences, other structural units at TUD, other institutions within the DRESDEN-concept alliance, and stakeholders is essential.

We are looking for you as a dynamic and dedicated personality with an international academic track record in public transport systems and experience in externally funded research. We invite applications with proven expertise in at least two of the following areas:

- Analysis, modelling and design of technologies, processes and systems for powerful, flexible, multi-modal, and reliable public transport operations,
- Digitization and automation of planning and operations in public transport,
• Long- and short-term demand and arrival forecasting with statistical methods or artificial intelligence approaches,
• Operation research approaches for planning (scheduling, routing, network design, individual path modeling, robustness).

We are looking forward to your application if you hold a university degree in transportation science or related relevant fields and have a pedagogical aptitude and excellent capability for scientific work, which you can prove by a doctoral/PhD degree and further outstanding academic achievements. The proof for the latter is a habilitation/postdoctoral qualification, a positively interim evaluated junior professorship, or an equivalent. Applicants must fulfill the employment qualification requirements of § 59 of the Institutions of Higher Education Act in the Free State of Saxony (SächsHSG).

For further questions, please contact the head of the appointment committee, Prof. Dr. rer. pol. habil. Georg Hirte (phone: +49 351 463-36788; email: georg.hirte@tu-dresden.de).

TUD strives to employ more women in academia and research. We therefore expressly encourage women to apply. The University is a certified family-friendly university and offers a Dual Career Service. 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. If you have any questions about these topics, please contact the Equal Opportunities Officer of the “Friedrich List” Faculty of Transport and Traffic Sciences (Susanne Wunsch, phone: +49 351 463-36689) or the Representative of Employees with Disabilities (Roberto Lemmrich, phone: +49 351 463-33175).

We look forward to receiving your application by February 2, 2024 (time stamp on the email server or the stamped arrival date of the University Central Mail Service of TUD applies). Please attach the following documents to your letter of application: curriculum vitae in tabular form, a description of your scientific career, a list of publications and previous teaching activities, including the results of the teaching evaluation (preferably of the last three years) as well as a copy of the certificate of the highest academic degree.

We kindly ask you to submit your application by email. Please use the SecureMail Portal of TUD (https://securemail.tu-dresden.de) and send your documents in a single PDF document to: berufungen.vw@tu-dresden.de. If you are applying by regular mail, please also attach your application documents in electronic form (CD or USB thumb drive) and send them to: TU Dresden, Dekanin der Fakultät Verkehrswissenschaften „Friedrich List”, Frau Prof. Dr.-Ing. Regine Gerike, Helmholtzstr. 10, 01069 Dresden, Germany.

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.