

As part of the Tenure Track Programme, the **Institute of Transport and Economics** at the **“Friedrich List“ Faculty of Transport and Traffic Sciences** invites applications for the

Chair (W2) of Big Data Analytics in Transportation (W3 with tenure track)

initially limited to a six-year contract, to be filled at the **earliest possible date**. In being appointed to the chair, evaluation criteria will be mutually agreed upon, which will be evaluated by a faculty-wide and school-wide commission at the latest in the fifth year of the chair. The main focus of the evaluation will be the scientific success in the form of subject-relevant and high-quality publications, the acquisition of third-party research funds as well as related project management and positively evaluated teaching performance at the level of a W3 chair. Following a positive evaluation, a permanent Chair (W3) of Big Data Analytics in Transportation will be granted without a renewed selection process.

During the temporary chair, the applicants must prove that they are capable of fulfilling all requirements in teaching and research in this field. The current process of focussing on methodological competences for the analysis of data relevant to transport economics at the institute, as well as advancing the training of transport economists in this field, must be significantly enhanced and shaped. Tasks in teaching must be carried out in the German-language Bachelor's degree programme in Transport Economics as well as in the bilingual Master's programme in Transport Economics; participation in further German and English-language degree programmes of the faculty is also expected. The individual holding the position shall focus on research in the development of analytical competence for high-dimensional data (Big Data) for the investigation of economic and transport phenomena. Participation in the Competence Center for Scalable Data Services and Solutions Dresden/Leipzig (ScADS) that is funded by the Federal Ministry of Education and Research and in the expansion of HPC capacity at the supercomputer is desired. It is expected that relevant research projects will be developed and carried out, that project funds will be successfully acquired and coordinated, and that young scientists will be promoted. Active participation in interdisciplinary projects and cooperation with non-university research institutions based in Dresden and other national and international project partners is explicitly desired. The duties include participation in academic selfadministration.

We are seeking a scientist who is internationally recognised and possesses the potential for scientific research at the highest international level. The prerequisites are a university degree, an excellent doctorate in economics or statistics, high-quality scientific publications, experience in the acquisition of third-party research funds and proven methodological competence in at least one of the following fields: statistics, econometrics, numerical simulations or optimisation methods. Teaching experience, good pedagogical aptitude and the ability to teach in English are required. Applicants must fulfil the employment qualification requirements of § 58 of the Act on the Autonomy of Institutions of Higher Education in the Free State of Saxony (Higher Education Act of the Free State of Saxony – SächsHSFG).

In case of questions pertaining to this vacancy, please contact the Institute of Transport and Economics at +49 351 463 36788.

TU Dresden supports tenure track professors with a programme specifically tailored to their needs. Mentoring, various coaching sessions, and special continuing education programmes and

support offers provide active professional guidance throughout the duration of the temporary chair.

TU Dresden seeks to employ more female professors. Hence we particularly encourage women to apply. Applications from disabled candidates or those with additional support needs are very welcome. The University is a certified family-friendly university and offers a Dual Career Service. If you have any questions about these topics, please contact the Equal Opportunities Officer of the "Friedrich List" Faculty of Transport and Traffic Sciences (Dr.rer.nat. Susann Richter, +49 351 463-36514) or the Representative of Employees with Disabilities (Ms. Birgit Kliemann, Tel.: +49 351 463-33175).

Please submit your application, including CV, description of your scientific career, a list of your publications, a list of courses taught including results of evaluations (preferably from the last three years) by mail by **14.06.2018** (stamped arrival date of the university central mail service applies) to: **TU Dresden, Dekan der Fakultät Verkehrswissenschaften "Friedrich List", Herrn Prof. Dr.-Ing. Bernard Bäker, Helmholtzstr. 10, 01069 Dresden, Germany**, and in electronic form (CD, USB flash drive or via the TU Dresden SecureMail Portal <https://securemail.tu-dresden.de> by sending it to dekanat.vw@tu-dresden.de)