

At the **Faculty of Electrical and Computer Engineering of TU Dresden** the **Institute of Automation** seeks to fill at the **October 1, 2021** the

**Chair (W3) of Autonomous Systems**

associated with the

**Membership in the Management Board of  
the Fraunhofer Institute for Transportation and Infrastructure Systems (IVI)**

in a joint appointment procedure according to the Karlsruher Modell (Secondary employment model).

TU Dresden is one of the largest technical universities in Germany and one of the leading and most dynamic institutions in the country. With 17 faculties in five Schools, it offers a wide range of 124 degree courses and covers a broad research spectrum. Its focuses Health Sciences, Biomedicine & Bioengineering, Information Technology & Microelectronics, Smart Materials & Structures, Energy, Mobility & Environment as well as Culture & Societal Change are considered exemplary in Germany and throughout Europe. Since 2012, TU Dresden has been one of the "Universities of Excellence".

The Fraunhofer IVI in Dresden employs more than 100 scientists and cooperates closely with the TU Dresden. The spectrum of traffic-related research and development at the institute ranges from vehicle and drive technology and intelligent traffic systems to disposition, logistics and civil security.

In your new role, you will competently represent the main topics in research and teaching as well as in research and technology management towards research sponsors and research partners, and further expand the strategic connection between TU Dresden and the Fraunhofer Institute. You can expect an environment that allows for versatile projects with a high degree of practical relevance and a great deal of creative freedom in research. The board membership at the Fraunhofer IVI includes the scientific, technical and entrepreneurial control and development of the Institute within the Fraunhofer model and the Fraunhofer overall strategy.

We expect you to fulfil teaching obligations of usually six SWS (weekly lecturing hours per semester). You will represent the compulsory lecture "Automation Technology" in the undergraduate studies and the compulsory lectures "Discrete Event Systems" and "Modelling and Simulation" in the advanced studies. In the compulsory elective area of the major, the following lectures are currently offered "Mechatronic systems", "Control of robotic systems (serial manipulators, mobile robots)", "Path and attitude control of spacecraft", "Control of multi-body systems", "System design of AT systems" and "Internet applications in AT". The skills for conducting lectures in the English language are required. Additionally, we expect your active participation in academic selfadministration.

Candidates require expertise in research and teaching in one or more of the following areas with a clearly discernible reference to control and automation technology: cognitive systems (perception, context and situation recognition, planning, machine learning), reliable systems (reliability, functional safety, fault tolerance), adaptive systems with self-diagnosis and self-repair capabilities, localization, environmental modeling, state estimation, data fusion in one or more of the application fields of robotics, automotive technology, energy systems, production systems (industry 4.0) or assistance systems. Your willingness for interdisciplinary cooperation with other disciplines of the university as well as non-university partners is assumed, especially with the aim of developing prototypical structures for the testing and verification of new procedures and technologies.

You have many years of management experience in large, interdisciplinary research groups, experience in strategic planning, acquisition and implementation of large-volume national and international research

and development projects in various business fields, as well as expertise in increasing the efficiency of development processes and in technology exploitation. International work and teaching experience and/or experience in international projects and science policy networking are advantageous. 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 (SächsHSFG).

For further questions please contact the chairman of the appointment committee, Prof. Dr.-Ing. habil. Leon Urbas, (phone +49 351 463-39614; e-mail: [leon.urbas@tu-dresden.de](mailto:leon.urbas@tu-dresden.de)) or the President of the Fraunhofer Gesellschaft, Prof. Dr.-Ing. Reimund Neugebauer ([praesident@fraunhofer.de](mailto:praesident@fraunhofer.de)).

The TU Dresden and the Fraunhofer-Gesellschaft seek to employ more female professors. Hence, we particularly encourage women to apply. Applications from candidates with disabilities or those requiring additional support are very welcome. The University is a certified family-friendly university and has a Dual Career Service. If you have any questions on these topics, please contact the Equal Opportunities Officer of the Faculty of Electrical and Computer Engineering (Dipl.-Ing. Marcella Oberst, +49 351 463-34756) or the central Equal Opportunities Officer of the Fraunhofer-Gesellschaft (Dipl. Ing. Regina Böckler, +49 89 54759-322) or the Representative of Employees with Disabilities of TU Dresden (Mr Roberto Lemmrich, +49 351 463-33175) and the representation of the disabled employees of the Fraunhofer-Gesellschaft (Frank Müller, +49 511 5350-342).

Please send your application with a tabular curriculum vitae, a presentation of your scientific background, a list of scientific work, a list of courses including teaching evaluation results of the last three years and a certified copy of the certificate for the highest academic degree until **December 17, 2020** (stamped arrival date of the university central mail service applies) to:

**TU Dresden, Dekan der Fakultät Elektrotechnik und Informationstechnik, Herrn Prof. Dr.-Ing. Karlheinz Bock, Helmholtzstr. 10, 01069 Dresden** and electronically via the SecureMail Portal of the TU Dresden, <https://securemail.tu-dresden.de> by sending it as a single pdf document to [dekanat.et@tu-dresden.de](mailto:dekanat.et@tu-dresden.de) and additionally to the **President of the Fraunhofer-Gesellschaft, Herrn Prof. Dr.-Ing. habil. Prof. E.h. Dr.-Ing. E. h. mult. Dr. h.c. mult. Reimund Neugebauer,** [praesident@fraunhofer.de](mailto:praesident@fraunhofer.de). The application documents will be made available to the responsible bodies of the TUD and the Fraunhofer-Gesellschaft.



---

**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>