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 Faculty of Electrical and Computer Engineering, the Institute of Automation invites applications for the Chair (W3) of Robotics and Automation Engineering to be filled at the earliest possible date.

You (m/f/x) will represent the subject area in research and teaching within the degree programs at the Faculty of Electrical and Computer Engineering. This includes current modules of the basic and specialized studies in the diploma and master's degree programs with a high proportion of laboratory practical courses as well as future modules with an increased international orientation. We would also like your active participation in the basic education and teaching export of the Faculty of Electrical and Computer Engineering. You will have the opportunity to develop and implement a challenging, future-oriented and application-oriented research program in the field of Robotics and Automation Technology. The position requires interdisciplinary cooperation with other departments of the university as well as with non-university partners, especially with the goal of prototypical setups for testing and verification of new processes and technologies. We expect your active participation in academic self-administration.

We are looking for you as an individual who is scientifically proven internationally in at least two of the following fields:

- Autonomous systems in uncertain and complex environments (localization, environment modeling, state estimation, data fusion)
- Cognitive systems (perception, context and situation recognition, planning, machine learning)
- Adaptive systems with capabilities of self-diagnosis and self-repair
- Human-centric robotics (human-robot collaboration, rehabilitation robotics, assistance systems)
- Distributed collaborative self-learning systems
- Mechatronic integration of sensors, actuators and information processing for intelligent robotic basic functionalities
- Automation in production technology (Industry 4.0), automotive engineering or medical technology.

We expect from you a successful scientific activity in a current field of the appointment area, excellent research achievements with high development potential, experience in teaching, outstanding didactic
skills, success in the acquisition of third-party funding, experience in the guidance and management of scientific and non-scientific staff and a very good national and international network within the specialist community as well as the willingness to cooperate on an interdisciplinary basis. The ability and willingness to offer courses in English is required. We expect the successful candidate to have sufficient language skills in German (language level CEF B1) to perform teaching and administrative duties. Practical experience in the relevant industry is an advantage. In addition to the general requirements, applicants must fulfil the employment qualification requirements of § 59 of the Institutions of Higher Education Act in the Free State of Saxony (SächsHSG).

For content related questions, please contact the Dean of the Faculty of Electrical and Computer Engineering, Prof. Dr.-Ing. Karlheinz Bock, email: dekanat.et@tu-dresden.de or the head of the appointment committee, Prof. Dr.-Ing. habil. Dipl.-Math. Klaus Röbenack, Tel. +49 351 463-33940, E-Mail: klaus.roebenack@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 Faculty of Electrical and Computer Engineering (Ms. Lena Elspaß, Phone +49 351 463-40517) or the Representative of Employees with Disabilities (Mr. Roberto Lemmrich, Phone +49 351 463-33175).

We look forward to receiving your application by March 28, 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: a CV in tabular form, a description of your scientific career, a list of your scientific publications, and a list of courses taught, results of evaluations (preferably of the last three years) as well as a copy of the certificate of your 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: dekanat.et@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, Fakultät Elektrotechnik und Informationstechnik, Dekan, Herrn Prof. Dr.-Ing. Karlheinz Bock, 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.