

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, Institute of Communication Technology**, the **Vodafone Chair of Mobile Communications Systems** offers two positions as

**Research Associate (m/f/x)**

(subject to personal qualification employees are remunerated according to salary group E13 TV-L)

starting at the **earliest possible date**. The positions are limited to 18 months with the option of extension. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz-WissZeitVG). The positions offer the chance to obtain further academic qualification.

The Vodafone Chair for Mobile Communications Systems offers the opportunity to help shape the development of future mobile communication systems in a prosperous and dynamic environment, to gain valuable project experience and to establish and deepen contacts with innovative companies. Further information on the Vodafone Chair can be found at <https://mns.ifn.et.tu-dresden.de/>.

**Tasks:** You will conduct research in the field of wireless communications technology on one of the following topics:

- development and evaluation of resilient wireless systems for industry and medicine,
- energy efficiency of 5G & Beyond,
- hardware & chip design,
- communication protocols and radio resource allocation methods, e.g. through machine learning, for Wireless Networked Control Systems and Cooperative and Connected Autonomous Driving
- design and evaluation of novel ultra-wideband radio access technologies for THz wireless communications
- joint communications and sensing.

All tasks are carried out in cooperation with partners from industry and science. The field of activity also includes the supervision of student work related to the research topics. The results of the work are to be published at international conferences and in distinguished journals.

**Requirements:** above-average university degree in the field of computer science, electrical engineering, communications engineering or information systems engineering; profound knowledge of wireless communications, communications engineering and digital signal processing; independent, goal- and solution-oriented approach; integrative and cooperative behavior with very good communication and social skills; confident command of written and spoken English.

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.

Please submit your detailed application with the usual documents by **September 27, 2023** (stamped arrival date of the university central mail service or the time stamp on the email server of TUD applies) preferably by sending it as a single PDF file to [jobs@ifn.et.tu-dresden.de](mailto:jobs@ifn.et.tu-dresden.de) (Please note: We are currently not able to receive electronically signed and encrypted data) or to: **TU Dresden, Fakultät Elektrotechnik und Informationstechnik, Institut für Nachrichtentechnik, Vodafone Stiftungsprofessur für Mobile Nachrichtensysteme, Herrn Prof. Gerhard Fettweis, 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.

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**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>.