

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.

The **Cluster of Excellence Centre for Tactile Internet with Human-in-the-Loop (CeTI)** offer a position as

**Junior Research Group Leader (m/f/x)
for Research Area - Communication, Computing and Networking**

(subject to personal qualification, employees are remunerated according to salary group E 15 TV-L)

starting **as soon as possible**. The position is limited until December 31, 2032. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG).

In this position, you will become a member of the CeTI, one of Germany's Cluster of Excellence funded by the German Research Foundation (DFG). The position offers the opportunity to work in an interdisciplinary and international research environment focusing on next-generation communication systems, real-time networking, and interactive technologies. In collaboration with researchers from computer science, electrical engineering, psychology, and human-machine interaction, you will conduct innovative research on future wireless networks, immersive communication, and the Tactile Internet.

Tasks:

- establishment and leadership of an independent, DFG-funded interdisciplinary research group focusing on molecular communication and synthetic biological intelligence
- strategic leadership, further development, and coordination of the interdisciplinary research area "Communication, Computing and Networking" within the Cluster of Excellence CeTI in the role of Research Area Manager
- development of an innovative research agenda at the interface of communication engineering, computer science, synthetic biology, biophysics, and artificial intelligence
- conducting independent research on novel communication paradigms beyond classical electromagnetic systems, including nano- and microscale communication and the Internet of Bio-Nano Things
- development of theoretical models, simulation frameworks, and experimental approaches for molecular and biologically inspired communication systems
- integration of bio-inspired computing and communication approaches into digital infrastructures and cyber-physical systems in collaboration with international partners
- strategic coordination and long-term development of the research group and its interdisciplinary research activities
- supervision of doctoral researchers, postdoctoral researchers, scientific staff members, and student assistants
- acquisition and management of national and international third-party funded projects (e.g. DFG, BMBF, ERC)
- publications of research results in leading international journals and presentation at international conferences

- establishment of interdisciplinary and international research collaborations and contribution to collaborative research initiatives within CeTI.

Requirements:

- a university degree and a PhD in a relevant field such as communication engineering, computer science, information theory, electrical engineering, applied mathematics, or a closely related discipline
- a high-level academic qualification with proven research expertise and professional experience in the field of molecular communication and synthetic biological intelligence
- research experience in the field of next-generation communication systems, including softwarized networks (e.g. SDN/NFV), network virtualization, or novel communication paradigms such as molecular or quantum communication
- experience in applying for and carrying out challenging and complex research projects, as well as in research management
- proven experience in successfully securing competitive external funding (e.g. DFG, EU), as well as a track record of academic visibility demonstrated through international publications and collaborations
- leading experience, ideally within interdisciplinary and international teams
- experience in interdisciplinary research, particularly at the interface between communication, computing, information theory, artificial intelligence and cyber-physical systems
- knowledge and experience in the development and application of theoretical, experimental, and computational methods for the analysis, design, and optimization of complex communication and information systems
- excellent communication skills, particularly with regard to effective collaboration within a diverse, collaborative and interdisciplinary research environment
- excellent 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 family-friendly university. 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.

Application: Please submit your detailed application with the usual documents (including cover letter, CV, publication list, certificates and a 2-3 page research proposal) by **June 24, 2026** (stamped arrival date of the university central mail service or the time stamp on the email server of TUD applies), preferably via the TUD SecureMail Portal <https://securemail.tu-dresden.de> by sending it as a single pdf file to recruiting.ceti@tu-dresden.de or to:

TU Dresden, Cluster of Excellence CeTI, Frau Isabel Delkus, 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.



TUD is a founding partner in the DRESDEN-concept alliance.

DRESDEN
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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>.