Technische Universität Dresden (TUD), 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 Communications Engineering, the Deutsche Telekom Chair of Communication Networks offers a position as Research Associate (m/f/x) (subject to personal qualification, employees are remunerated according to salary group E 13 TV-L) starting as soon as possible in the context of the Research Priority Program “Resilience in Connected Worlds – Mastering Failures, Overload, Attacks, and the Unexpected (Resilient Worlds).” The position is limited for 36 months, with the option of extension. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz – WissZeitVG). The position offers the chance to obtain further academic qualifications (e.g. PhD).

Tasks: You will be involved in research activities in reliable communication networks for transport, storage and processing of information with special emphasis on network coding as a single code structure (One Code to Rule them All). You will cooperate with our team in researching and implementing real testbeds and emulators for the results of your research. You will work on novel theories and codes for reliable communication. The philosophy of our team is “Research that matters.” Therefore, you are expected not only to work on theory but also to program and deploy your own research in our testbeds using state-of-the-art software libraries and the result of cooperative research with other team members. Your work will be beneficial not only for our academic partners but also for many industry members who are involved in projects with our team. The position also includes project-based supervising student work related to the research topics. The work results will be published at international conferences and in recognized journals.

Requirements: university degree (Diploma/Master) in Electrical Engineering, Telecommunications, Information Systems, Computer Science, or similar; programming skills in C++, Python, or Golang. Knowledge in network coding, information theory, communication networks, and wireless communication systems is a plus.

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 application documents (motivation letter, CV, certificates) until November 18, 2022 (stamped arrival date of the university central mail service applies), preferably via the TU Dresden SecureMail Portal https://securemail.tu-dresden.de by sending it as a single pdf document to juan.cabrera@tu-dresden.de or to: TU Dresden, Fakultät Elektrotechnik und Informationstechnik, Institut für Nachrichtentechnik, Deutsche Telekom Professur für Kommunikationsnetze, Herrn Prof. Dr.-Ing. Dr. h.c. Frank Fitzek, 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.

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.