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 Communication Technology, the Chair of Radio Frequency and Photonics Engineering offers in the Integrated Photonic Device Group, 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** and limited until September 30, 2025. 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/habilitation thesis). Balancing family and career is an important issue. The position is generally suitable for candidates seeking part-time employment. Please indicate your request in your application.

**Tasks:** The researcher fulfills the tasks required to achieve the objectives of the BMBF project “Photonic ICs for Quantum Key Distribution” to simulate, design, layout generation, and measurement of various photonic components. Other than the tasks specified in the project, close collaboration within the team at TU Dresden and with the collaborators of the group is required. Presentation of the results and preparing the reports are part of the responsibilities of the researcher.

**Requirements:** university degree in Electrical Engineering, Physics, or other related fields. The ability to program with MATLAB/Python and/or C/C++ programming languages is necessary. We are looking for a highly motivated researcher who can work independently on the assigned tasks and has good teamwork ability. Knowledge in photonics, semiconductor technologies, numerical simulation, and electromagnetic modeling is a plus. Candidates who can communicate in both German and English languages have priority.

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 comprehensive application including the usual documents by **January 31, 2023** (stamped arrival date of the university central mail service applies) to: TU Dresden, Fakultät Elektrotechnik und Informationstechnik, Institut für Nachrichtentechnik, Professur für Hochfrequenztechnik, Herrn Prof. Ph.D. Kambiz Jamshidi, Helmholtzstr. 10, 01069 Dresden, Germany or via the TU Dresden SecureMail Portal [https://securemail.tu-dresden.de](https://securemail.tu-dresden.de) by sending it as a single pdf document to kambiz.jamshidi@tu-dresden.de. 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.