Technische Universität Dresden - Faculty of Electrical and Computer Engineering, Institute of Communication Technology, Chair of Radio Frequency and Photonics Engineering

Technische Universität Dresden

TUD Dresden University of Technology, as a University of Excellence, is one of the leading and most dynamic research institutions in the country. 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.

Research Associate (m/f/x)

(subject to personal qualification, employees are remunerated according to salary group E 13 TV-L) At the Faculty of Electrical and Computer Engineering, Institute of Communication Technology, the Chair of Radio Frequency and Photonics Engineering offers within the work group Integrated Photonic Device a position as Research Associate (m/f/x) starting at the next possible date. The position is limited to 36 months. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The position offers the chance to obtain further academic qualification (usually 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.

City: Dresden; Starting date (earliest): At the earliest possible; Duration: 36 months; Remuneration: subject to personal qualification, employees are remunerated according to salary group E 13 TV-L; Reference number: w26-275; Closing date: 30/11/26

Tasks

The researcher fulfills the tasks required to achieve the objectives of the DFG project “Scalable and Programmable Integrated Optoelectronic Coherent Ising Machine” to simulate, design, generate layouts, and measure various photonic components and circuits and their implementation in system demonstrators. Other than the tasks specified in the project, close collaboration within the team and with the collaborators of the group is required. Presenting 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 skills. 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.

What we offer

- the opportunity for engaging and independent work within a flat hierarchy, in an open-minded team and supportive atmosphere
- flexible arrangements for work hours to support a good work-life balance
- 30 days of vacation per year (based on a 5-day workweek)
- extensive opportunities for professional development and continuing education
- health care and sports programs offered by TUD
- a discounted job ticket (also available as a Deutschlandticket)
- participation in the supplementary pension scheme for employees in the public sector via VBL (Federal and State Government Employees Retirement Fund)

Application

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 quoting the reference number w26-275 by November 30, 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 kambiz.jamshidi@tu-dresden.de or to:
TU Dresden, Chair of Radio Frequency and Photonics Engineering, Prof. Ph.D. Kambiz Jamshidi,
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.

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.

More information at https://stellenticket.de/208215/TUD/
Offer visible until 30/11/26