



Technische Universität Berlin



Research Assistant - salary grade E13 TV-L Berliner Hochschulen

part-time employment may be possible; under the reserve that funds are granted

Faculty IV - Electrical Engineering and Computer Science, Institute of Software Engineering and Theoretical Computer Science / Quantum Communication and Cryptography

Reference number: IV-440/25 (starting at 01/12/25 / until 30/11/2028 / closing date for applications 31/10/25)

Your responsibility:

Research within a project on measurement-based quantum computing (MBQC) and benchmarking. The project focuses on exploring the potential of MBQC for near-term applications, with an emphasis on delegated quantum computing. Quantum software for MBQC compilation and pattern optimization will be developed. The project involves close collaboration with experimental groups and industry to assess the suitability of existing hardware platforms for MBQC. Outreach activities, such as workshops and public events, are also organized.

Your profile:

- Successfully completed university degree (Master, Diplom or equivalent) in the field of computer science or physics or in a related field
- Good knowledge of German and/or English required; willingness to acquire the respective missing language skills
- Extensive Knowledge of Quantum Computing and Benchmarking
- Experience in Python
- Knowledge of LaTeX
- Knowledge of Measurement-Based Quantum Computation and compiling desirable
- Willingness to travel abroad for workshops and conferences is advantageous
- Teamwork, Creativity and interest in cutting-edge research desired

How to apply:

Please send your written application including the **reference number** and regular application documents by E-Mail to **t.tsochantaris@tu-berlin.de**.

By submitting your application via email you consent to having your data electronically processed and saved. Please note that we do not provide a guaranty for the protection of your personal data when submitted as unprotected file. Please find our data protection notice acc. DSGVO (General Data Protection Regulation) at the TU staff department homepage: https://www.abt2-t.tu-berlin.de/menue/themen_a_z/datenschutzerklaerung/.

To ensure equal opportunities between women and men, applications by women with the required qualifications are explicitly desired. Qualified individuals with disabilities will be favored. The TU Berlin values the diversity of its members and is committed to the goals of equal opportunities. Applications from people of all nationalities and with a migration background are very welcome.

The vacancy is also available on the internet at:
<https://www.jobs.tu-berlin.de>

