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 Telecommunication Systems / Network Information Theory
Reference number: IV-489/25 (starting at the earliest possible / until 31/10/29 / closing date for applications 12/12/25)

Your responsibility:

- Design, analysis, and adaptation of quantum-physical versions of selected analog methods from the field of signal and information processing
- Implementation of these methods in the form of quantum circuits required for execution on quantum computers
- Collaboration with other teams within XG-NOVA: you will support the setup, commissioning, and initial functional testing of a quantum computing laboratory as part of xG-NOVA, in cooperation with other project partners
- Documentation and publication of results, as well as presentation of findings to professional audiences at conferences and events

Your profile:

- Successfully completed university degree (Master, Diplom or equivalent) in physics, mathematics, communications engineering, computer science, or a related field.
- Strong ability to rigorously solve mathematical problems.
- Excellent knowledge in the areas of quantum computing or quantum communication.
- Excellent knowledge of quantum theory, particularly in the field of quantum optics.
- Good knowledge of German and/or English required; willingness to acquire the respective missing language skills
- General programming skills, e.g., in MATLAB, C/C++, Python, or similar languages.
- Excellent knowledge in the field of signal processing desirable
- Excellent knowledge of information theory desirable
- Excellent knowledge in the field of machine learning desirale

How to apply:

Please send your application with the **reference number** and the usual documents combined in a single pdf file, max 5 MB only by email to **Slawomir.stanczak@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

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