

The **Chair of Theoretical Information Technology** has an immediate opening for a

Researcher Associate (m/f/x) Quantum Computing and Communication Research

The research associate position will contribute to the setup and maintenance of quantum computing and communication platforms and the development of specific user interfaces for research and educational purposes within the project „Quantenkommunikation Netzwerke Kompetenz für die Gesellschaft“ funded by the Federal Ministry of Education and Research (BMBF) of Germany in the program "Vernetzung und Sicherheit digitaler Systeme". This position offers for the successful candidate the unique opportunity to pursue a PhD during the duration of the project. We are looking for highly motivated individuals who excel in teamwork and are passionate about advancing the field of quantum technologies. The position is limited to the project period of three years.

Your responsibilities

- conduct joint research on quantum computing and quantum communication, addressing fundamental research questions and integrate research findings into the overall project aim
- design and program basic algorithms for quantum computers, primarily for educational sessions
- collaborate with educator managers to ensure the algorithms align with educational objectives
- continuously update and resolve bugs in the algorithms

Your qualifications and requirements

- university degree (Diploma/Master) in electrical or electronic engineering, telecommunications engineering, computer science, physics, mathematics, or equivalent
- strong programming skills are highly recommended
- proficiency in both German and English with good oral and written communication skills
- demonstrated ability to work effectively in a team and willingness to actively engage in idea exchange with others

Our offer

- limited (3 years) full time position with a salary up to to the remuneration group E 13 TV-L
- collaborative working atmosphere in an internationally highly respected research institution
- possibility of earning a doctoral degree and work on cutting-edge quantum computing and communication technologies

Are you interested?

Please send your detailed application with the usual documents in *one single pdf file* by e-mail to *Prof. Holger Boche* at jobs.iti@xcit.tum.de with the keyword „QUARKS-Res“ in the subject line.

For further information about this position please contact Dr. Volker Pohl (+49 89 289 23250, volker.pohl@tum.de).

General Information

TUM is aiming to increase the number of women employees, and applications from women are expressly welcomed. People with disabilities, with essentially the same suitability and qualification, will be preferred. As you apply for a position at the Technical University of Munich (TUM), you provide personal data. Please note our data protection information according to Art. 13 Data Protection Basic Regulation (DSGVO) on the collection and processing of personal data in connection with your application <http://go.tum.de/554159>. By submitting your application, you confirm that you have taken note of the data protection information of the TUM. Expenses incurred in attending interviews cannot be reimbursed.