



Technische Universität Berlin



Research Associate (PostDoc) - salary grade 13 TV-L Berliner Hochschulen

part-time employment may be possible

Faculty IV - Electrical Engineering and Computer Science, Institute of Telecommunication Systems/ Communication and Information Theory (CommIT)

Reference number: IV-378/25 (starting at the earliest possible / until 29/02/28 / closing date for applications 26/09/25)

Your responsibility:

The selected candidates will have opportunities to work in an enriching interdisciplinary environment, with significant potential for broad impact in terms of technology development, industry involvement, and educational initiatives. The focus of the Leibniz project is on communication technology, information theory and wireless communication. This postdoctoral research project focuses on modern coding and modulation techniques combining LDPC codes with Sparse Regression codes (SR-LDPC), with focus on coded modulation design for multiuser MIMO systems in 6G.

Your profile:

- Successfully completed scientific university degree (Master, Diplom or equivalent) and, at the time of recruitment, a doctorate PhD degree in a field of Electrical/Computer Engineering, Computer Science, Mathematics, Physics, relevant to the research topic described below.
- Applicants must have a professional background and, preferably, have already published work in a field that is related to the research agenda of the chair.
- Specific know-how and experience in LDPC coding/decoding, BP algorithm, AMP algorithm, multiuser MIMO channel models, and a good understanding of the 5G and 6G physical layer.
- Good knowledge of German and/or English required; willingness to acquire the respective missing language skills

How to apply:

Please send your application with the **reference number (ID)** and the usual documents (summarized in one PDF document):

- a curriculum vitae, stating clearly and precisely their education, history, earned degrees and previous academic institutions,
- letters of recommendation from academic advisors, Master's, Diploma, Ph.D. supervisors, academic instructors, .
- list of published research work
- a letter of motivation and purpose (statement of research interests, explaining in particular how the candidate's background fits in with one or more of the above areas).
- final grade transcripts with certified translation in English or German if the original documents are in a different language.

only by e-mail to: jana.hantke@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>

