

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

## **Doctoral student; Postdoctoral student: Embedded Security / Physical Layer Security for Post Shannon Communication Systems (E13 TVL) (f/m/d)**

for the joint project "Post Shannon Communication," which is being funded by the Federal Ministry of Education and Research (BMBF). In this joint project, transmission systems that go beyond Shannon's communication approach are to be developed in order to achieve more efficient information transmission for selected applications. The position is initially limited to three years. An extension is possible.

### **Content of the project and areas of responsibility**

- Development of communication and information theory for the new application scenarios
- Protocol design for embedded security / physical layer security
- Publications and presentations of scientific results, teaching duties

### **Your qualifications**

- Above-average university degree in electrical engineering, communications engineering, mathematics, physics (or similar) with thorough knowledge in information and communication theory, as well as in coding theory
- Interest in theoretical work with high practical relevance
- Interest in demonstrating research results on a hardware platform
- Software: Experience with MATLAB, C++, Python or similar
- Goal-oriented, independent and structured work style

### **Our offer**

- Current research topic in a challenging international working environment
- Full-time position (E13 TVL) with the possibility of earning a doctoral degree

### **To apply**

Please send us your application by e-mail ([jobs.lti@ei.tum.de](mailto:jobs.lti@ei.tum.de)) with the following documents:

- Curriculum vitae, copies of relevant certificates and diplomas, contact information for two references
- Short description of your research interests and your motivation for the application
- Master thesis and (if available) up to 3 publications

Application deadline: open, until the position is filled

### **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.

### **Technical University of Munich**

Chair of Theoretical Information Technology

Prof. Holger Boche

Theresienstrasse 90, 80333 Munich

Munich, September 2019