



**Technische Universität Berlin**



Technische Universität Berlin offers an open position:

## **Research assistant - salary grade E 13 TV-L Berliner Hochschulen - 1st qualification period (PhD candidate)**

part-time employment may be possible

The majority of systems and services provided by computer science, electrical engineering, information technology and media technology are ultimately aimed at human users. For the success of such systems and services, it is therefore essential to deal with the users and their behavior during interaction. From this, design principles for human-machine interfaces can be derived and requirements for the technologies on which the system is based can be defined. Conversely, the available technologies also open up new possibilities for interface design, resulting in new forms of interaction.

The Quality and Usability Lab, as a department of Faculty IV, is concerned with the design and evaluation of such human-machine interactions, whereby aspects of human perception, technical systems and the design of the interaction are the subject of our research.

### **Faculty IV - Institute of Software Engineering and Theoretical Computer Science/ Quality and Usability Lab**

**Reference number:** IV-263/25 (starting at 01/09/25 / for 5 years / closing date for applications 08/08/25)

#### **Working field:**

Support in the basic teaching of the subject area in courses in the Bachelor's degree programs in Computer Engineering, Media Informatics and Media Technology, in particular in the integrated course "Digital Systems", "Introduction to Media Informatics", "Media Creation Project" and "Interdisciplinary Media Project" by setting up and supervising Exercise and projects. In addition, support in teaching in the Master's area for the degree programs of Faculty IV and the BUA Master's program in Media Informatics.

Empirical research in the field of User Experience & Extended Reality is also part of the range of tasks.

#### **Your specific tasks will include:**

- You will be responsible for setting up and supervising exercises
- You will supervise domestic and international students
- You will instruct students on topics such as digital systems, media design, media use, media transmission and human-machine interaction
- Project communication and reporting are also part of your tasks
- You will be responsible for the conception, design, implementation and statistical evaluation of laboratory and field studies to investigate user satisfaction and user behavior
- You will actively work on the design, development and evaluation of systems for the creation of virtual and augmented reality (VR, AR), as well as digital twins
- You are actively involved in the measurement, planning and optimization of quality and user experience
- You take on the programming of experimental applications independently
- You publish and present project and research results in scientific journals, at conferences and workshops, as well as in international standardization committees of the ITU-T
- You take on teaching tasks

#### **Requirements:**

- You have successfully completed a scientific university degree (Master, Diplom or equivalent) in (technical) computer science, electrical engineering, media informatics, media technology or a related subject
- You have good knowledge of programming environments for virtual and augmented reality (VR, AR)
- You have good knowledge of empirical research
- You also have in-depth experience in languages and environments such as Python, R, Swift, Kotlin, TypeScript, Unreal or Unity
- The ability to teach in German and/or in English is required; willingness to acquire the respective missing language skills

#### **Desirable:**

- An interest in conducting experiments with test subjects to determine quality and user experience is a matter of course for you
- Ideally experience with empirical research and statistical data analysis
- You enjoy working in an international and interdisciplinary environment and can enrich the team with your personality and skills

In order to be considered for the selection process, please send your application stating the above-mentioned **reference number** with the usual documents (in particular letter of application, CV, copies of certificates, references) only by e-mail

(combined in one PDF file) to **bewerbung@qu.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 guarantee 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/](https://www.abt2-t.tu-berlin.de/menue/themen_a_z/datenschutzerklaerung/) or quick access 214041.

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.personalabteilung.tu-berlin.de/menue/jobs/>

