

**Technische Universität Berlin**

Technische Universität Berlin offers an open position:

Research Assistant - salary grade E13 TV-L Berliner Hochschulen

under the reserve that funds are granted - part-time employment may be possible

The majority of systems and services that are provided by computer science, electrical engineering and information technology finally are oriented towards the needs of their human users. To successfully build such systems and services it is essential to investigate and understand users and their behavior when interacting with technology. On the one hand, this understanding allows to derive design principles for human-machine-interfaces and to define requirements concerning the system and its underlying technologies. On the other hand, new available technologies do offer new possibilities regarding the design of such interfaces and the development of new kinds of interaction.

The Quality and Usability Lab is part of TU Berlin's Faculty IV for Electrical Engineering and Computer Science and deals with the design and evaluation of human-machine interaction. Here, the main subjects of our research are human perception, aspects of technical system that are related to the interaction as well as interaction design.

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

Reference number: IV-372/19 (starting at the earliest possible / for a period of 32 months / closing date for applications 05/07/19)

Working field: The research tasks of the position are linked to the analysis of perceived security and privacy. The position is funded by the Deutsche Forschungsgemeinschaft, DFG. The aim of the research is to analyze influence factors of mobile location-based services on the user's perceived privacy, and to describe their impact on user satisfaction and usage behavior in a quantitative way. On the basis of the collected results, a formal model should be developed which allows to predict user satisfaction and behavior, and in addition helps to define design guidelines for mobile location-based services.

The project is to be carried out in a close collaboration with Tel Aviv University in Israel. It is expected that the research leads to a PhD thesis, which preferably is part of the joint PhD program between Technische Universität Berlin and Tel Aviv University.

Concrete tasks of the position include, among other things:

- Design and implementation of mobile applications for testing mobile location-based services in experiments with human participants
- Implementation and extension of a mobile platform for collecting usage data with mobile apps
- Design, run and statistical analysis of empirical laboratory-based as well as field studies with human participants for analyzing user satisfaction and usage behavior
- Mathematical modelling of the obtained results
- Organization of workshops around the topic of usable security and privacy
- Project communication and reporting
- Publication and presentation of project and research results in scientific journals, at conferences, and at workshops

Requirements:

- Successfully completed university degree (Master, Diplom or equivalent) in computer engineering/science, informatics, media informatics, digital media, or electrical engineering (or an equivalent technical background)
- Knowledge of usable security and privacy
- Profound programming skills in Front-End/Mobile Apps (e.g. Kotlin/Java, Swift, HTML5/CSS3, Javascript, React o.ä, JSON) and ideally also back-end (Java, Python, RESTful API, databases, Linux-Server)
- Interest in running user studies with test participants to determine user satisfaction and usage behavior
- Language skills: English required fluent in writing and speaking; German preferable
- Knowledge about empirical studies and statistical data analysis is appreciated
- Joy of working in an interdisciplinary and international environment

Please send your application with the **reference number** and the usual documents (in particular letter of application, curriculum vitae, copies of certificates, job references) preferably by e-mail (combined in one pdf-file) to jobs@qu.tu-berlin.de or in writing to **Technische Universität Berlin - Der Präsident - Fakultät IV, Institut für Softwaretechnik und Theoretische Informatik, Quality and Usability Lab, Prof. Dr. Möller, Sekr. TEL 18, Ernst-Reuter-Platz 7, 10587 Berlin.**

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.

Please send copies only. Original documents will not be returned.

The vacancy is also available on the internet at
<http://www.personalabteilung.tu-berlin.de/menue/jobs/>

