



Paderborn University is a high-performance and internationally oriented university with approximately 18,000 students. Within interdisciplinary teams, we undertake forward-looking research, design innovative teaching concepts and actively transfer knowledge into society. As an important research and cooperation partner, the university also shapes regional development strategies. We offer our around 2,600 employees in research, teaching, technology and administration a lively, family-friendly, equal opportunity environment, a lean management structure and diverse opportunities.

**Join us to invent future!**

The Faculty of Computer Science, Electrical Engineering and Mathematics at the Heinz Nixdorf Institute is looking to fill up two positions in the field of **Secure Software Engineering** as

## Research Associate (f/m/d)

(Pay scale EG 13 TV-L)

These are full-time positions, which are available immediately for a fixed term of three years, in order to develop scientific competences and to prepare a doctoral dissertation (according to the "WissZeitVG" law). An extension of the contract is possible within the limits set by the "WissZeitVG" law.

The Secure Software Engineering group develops methods and tools to make tomorrow's hardware and software systems functional, fail-safe and attack-proof. The research seeks to be foundational, yet is carried out in an applied manner, in cooperation with renowned international partners from science, politics and business. One focus of the group is the design of automated procedures to detect software vulnerabilities. Some of the software tools developed at the group are used by hundreds of research groups and companies worldwide.

The group is embedded in an interdisciplinary research landscape, with connections to the Paderborn Fraunhofer Institute for Mechatronics Design (IEM), the research network *SAIL: SustAInable Life-cycle of Intelligent Socio-Technical Systems* and the it's owl leading-edge cluster.

We are looking for a scientist who wants to make an important contribution to making digital systems secure and privacy-friendly. Concrete research topics include, but are not limited to: static and dynamic program analysis, fuzz testing, artificial intelligence for software engineering, threat analysis and threat modeling.

### Scope of Work:

- Collaboration in research and teaching (usually 4 hours per week) in the area of Secure Software Engineering
- If applicable, collaboration in third-party funded research projects of the department
- Organisation of teaching-courses in the field

### Hiring Requirements:

- Very good master's degree in computer science, mathematics, engineering or a related field
- Very good knowledge of written and spoken German or English, and if necessary, the willingness to learn German

### We offer:

- Exciting, highly relevant research topics with direct transfer into practice
- Collegial environment with many creative opportunities

Applications from women are particularly welcome and, in case of equal qualifications and experience, will receive preferential treatment according to state law (LGG). Part-time employment is generally possible. Qualified disabled people (in the sense of the German social law SGB IX) are also encouraged to apply.

Please send your application (including a cover letter, your CV, diplomas, transcripts, and contact details of at least two referees) preferably by email with the **reference number 6215** to: [se-jobs.cs@upb.de](mailto:se-jobs.cs@upb.de).

Information regarding the processing of your person data can be located at: <https://www.uni-paderborn.de/en/zv/personaldatenschutz>.

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