Paderborn University is a high-performance and internationally oriented university. 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 employees in research, teaching, technology and administration a lively, family-friendly and equal opportunity environment, a lean management structure and diverse opportunities. **Join us to invent the future!**

The **Faculty of Computer Science, Electrical Engineering and Mathematics**, Department of Computer Science – **Secure Software Engineering**, offers up to six positions from November 1st, 2024 as

Researcher Assistants (f/m/d)

(Salary group E 13 TV-L)

for 100 % of the regular working hours. These are qualification positions within the meaning of the Wissenschaftszeitvertragsgesetz (WissZeitVG), which serve to develop scientific competences and to prepare a doctoral dissertation. The positions are initially limited for a fixed term of three years. An extension is possible within the time limits of the WissZeitVG.

These positions are financed as part of an ERC Advanced Grant on **Self-Optimizing Static Program Analysis (SOSA)**. Further information can be found here: https://www.hni.uni-paderborn.de/en/sosa. SOSA, being funded by the European Research Council, promises to be a highly visible research project, which altogether will comprise a team of six doctoral and two post-doctoral researchers. In SOSA, you will be working at the forefront of science.

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 inter-national partners from science, politics and business. One focus of the group is the design of automated procedures to detect software vulnerabilities. Software tools developed within the group are used by hundreds of research groups and companies worldwide.

As part of the Heinz Nixdorf Institute, the group is embedded in an interdisciplinary research landscape, with connections to the Paderborn Fraunhofer Institute for Mechatronics Design (IEM) and the NRW network SustAInable Life-cycle of Intelligent Socio-Technical Systems (SAIL).

We are looking for university graduates who help make the vision of Self-optimizing Static Program Analysis a reality. Concrete research topics include but are not limited to: static and dynamic program analysis, domain-specific languages, self-awareness, compilation, and profiling.

Scope of Work:
- Research in the context of the ERC Project "SOSA" (90%)
- Contributing to teaching (usually 4 hours per week) in the area of Secure Software Engineering
- Dissemination and transfer of research results

Hiring Requirements:
- Scientific university degree (Master) in computer science, mathematics, electrical engineering or a related field
- Solid knowledge of written and spoken German or English, and if necessary, the willingness to learn German in the medium to long term

We offer:
- Participation in one of Europe's most visible research projects
- Exciting, highly relevant research topics in a vibrant team environment
- Flexible work arrangement with up to three days per week of mobile work
- 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. Likewise, applications of disabled people with appropriate qualification are explicitly requested. This also applies to people with equal status according to the German social law SGB IX.

Applications including cover letter, CV, list of publications and contact details of at least two references using the **Ref. No. 6544** should be sent by email to: se-jobs.cs@uni-paderborn.de.

We look forward to receiving your application!

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

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