UNIVERSITÄT PADERBORN

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!**

At the **Faculty of Computer Science, Electrical Engineering and Mathematics** – Department of Computer Science / **Secure Software Engineering** – up to two positions are available at the earliest possible date as

Post-doctoral Researcher (f/m/d)

(Salary group E 14 TV-L)

for 100 % of the regular working hours. These are qualification positions within the meaning of the Wissenschaftszeitvertragsgesetz (WissZeitVG), which serve to promote qualifications in the field of secure software engineering. The positions are initially limited to 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 scientists who have completed a doctorate in the fields of software engineering, programming languages or IT security and would like to gain further qualifications in academic or industrial research. For this further qualification, we offer a wide range of opportunities in the areas of research, teaching and academic self-administration, also accompanied by professional coaches. Successful PostDocs can be awarded the status of an independent research group leader at the university https://go.upb.de/irg. Applicants should be interested in supporting doctoral candidates in their scientific work in the context of SOSA and in further developing their teaching skills.

Scope of Work:

- Cooperation with doctoral students in SOSA with regard to their doctorate
- Further development of own research and teaching as well as that of the subject area with a teaching obligation of usually 4 hours per week
- Collaboration in the conception and formulation of scientific funding applications
- Assignment of additional tasks in independent research and project management

Hiring Requirements:

- Completed scientific doctorate university degree in the fields of IT security, software engineering or programming languages
- Several relevant publications at renowned international conferences or journals
- Very good written and spoken German or English skills

We offer:

- Collaboration in one of Europe's most visible research projects
- Exciting, highly relevant research topics in a great team environment
- Flexible working time model with up to three mobile working days per week
- 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.

Applications including cover letter, CV, list of publications and contact details of at least two references, using the **Ref. No. 6490**, should be sent by email to: se-jobs.cs@upb.de.

We look forward to receiving your informative documents!

Information on the processing of your personal data can be found at:
www.uni-paderborn.de/zv/personaldatenschutz.

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