



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!**

We are looking for a

student assistant (f/m/d)

(SHK / WHB, 10-19 hours/week)

from the field of Computer Science or Software Engineering for our research project SOSA (Self-optimizing Static Analysis) (<https://www.uni-paderborn.de/projekt/1171>), in which we investigate static analysis techniques that are self-adaptive and optimizable for secure software architectures.

Your responsibilities include:

- Assisting in literature research on static analysis techniques relevant to the SOSA project
- Implementing and evaluating proof-of-concept (PoC) prototypes based on research findings
- Supporting the documentation and preparation of research results
- Contributing to benchmarks and test suites for analysis tools

What you should bring:

- Basic knowledge of **static program analysis** (e.g., dataflow analysis, control flow, abstract interpretation)
- Good programming skills in **Java**

What we would be happy about:

- Completion of or participation in **DECA (Designing Code Analysis for Large-Scale Software Systems)** at Paderborn University
- Experience with **SootUp** or the classic **Soot** framework
- Familiarity with build systems (Maven, Gradle) and **Git**

What we offer:

- Flexible working hours adapted to your schedule
- Close mentoring by experienced researchers
- Possibility to transition into a Bachelor's or Master's thesis
- Direct involvement in active research and publications

We welcome your application, including a brief introduction outlining your field of study and any relevant experience. If you have any questions or are interested, please contact us at: smohan2@mail.upb.de

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HR EXCELLENCE IN RESEARCH

