HPI Hasso Plattner Institut
Digital Engineering · Universität Potsdam

RESEARCH ASSISTANT AND PHD STUDENT
ENTERPRISE PLATFORM AND INTEGRATION CONCEPTS (EPIC)

WHAT TO EXPECT

The **Enterprise Platform and Integration Concepts (EPIC)** research group led by **Prof. Dr. h.c. mult. Hasso Plattner** (co-founder of SAP) focuses on the technical aspects of business software, in particular the principles of in-memory and cloud-based data management, the integration of different software systems into one suite, and the data-driven decision support of businesses. We apply our findings to real-world scenarios and showcase future enterprise applications by developing and evaluating functional prototypes closely together with our industry partners.

As a **research assistant and PhD student** in the EPIC research group, you will be part of a technology-focused team that investigates the future generation of enterprise software. We conduct ongoing research in the areas of autonomous and cloud-based data management, development concepts for integration of different enterprise data sources, and data-driven decision support with a focus on learning causal structures and simulating businesses.

We are looking for exceptional candidates to strengthen our research group who are interested in both conceptual work and software engineering. To finally reach a PhD degree, you are expected to identify and work on specific research questions related to enterprise software and the group's topics.

This work includes but is not limited to acquisition of expertise in in-memory databases, cloud-native development, enterprise integration, and machine learning; development of working prototypes in close collaboration with our industry partners; publishing and presenting your results at international conferences and journals; and finally supporting our teaching activities.

SKILLS AND COMPETENCIES

- Very good university degree in computer science, mathematics, software engineering, or a related field

- Agile programming skills with strong competencies in data structures, databases, cloud-native development, and machine learning

- Good analytical skills in order to assess data and present core insights in a clear and compelling way

- Great interest in exploring new technologies and understanding how these help to tackle enterprise challenges

- Reliable and open-minded with strong team working skills, determined to reach a goal in time as well as the ability to work independently and to prioritize

- Fluent English and preferably German language skills - written and verbal

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The **Hasso Plattner Institute (HPI) in Potsdam** is Germany's university center of excellence for digital engineering, advancing research and education in IT systems engineering, data engineering, cyber security, entrepreneurship, and digital health. With its bachelor's and master's degree programs, the Faculty of Digital Engineering, established jointly by HPI and the University of Potsdam, offers innovative engineering- and application-oriented study programs. At present, more than 650 students are enrolled in the program. HPI consistently earns a top-notch place in the CHE University Ranking.

At HPI there are currently 20 professors and over 50 guest professors and lecturers. HPI conducts research noted for its high standard of excellence in its IT topic areas. PhD candidates carry out research at the HPI Research Schools in Potsdam and its branches in Cape Town, Haifa, Irvine and Nanjing. The focus of HPI's teaching and research is on the foundations and applications of large, highly complex and networked IT systems. In addition, HPI concentrates on the development and research of user-oriented innovations for all areas of life.

Interested? Get in touch with us!

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