The University of Paderborn is a high-performance and internationally oriented university with approximately 20,000 students. Within interdisciplinary teams, we design forward-looking research, innovative teaching and the active transfer of knowledge into society. As an important research and cooperation partner, the university also shapes regional development strategies. We offer our more than 2,500 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 the future!

In the Department of Computer Science, which is part of the Faculty of Computer Science, Electrical Engineering and Mathematics, the following position is to be filled as soon as possible:

**W 3 – Professor (f/m/d) in Domain-Specific Computing**

The Department of Computer Science is currently focusing on three strategic research directions: security, data science, and domain-specific computing. In order to further strengthen the area of domain-specific computing, we are looking for exceptional researchers in the area of methods or applications of domain-specific computer systems (e.g., for deep neural networks, cryptographic functions, or in-network processing).

We expect the ability and willingness to teach courses in the area of computer systems within the degree programs of computer science and computer engineering, as well as the willingness to participate in the academic self-administration, to teach courses in German as well as English, and to develop digital teaching formats.

Scientific qualification should be demonstrated by publications in internationally leading conferences and journals in the area of domain-specific computing, including one of the following topics:

- Domain-specific languages and code generation
- Development and design automation of domain-specific computer architectures
- Applications in high performance computers, data centers, or IoT/edge computing

Applicants should have experience with acquiring and conducting third-party funding projects, such as DFG projects, and teaching courses in the area of computer science. Successful candidates are expected to actively take part in proposals for collaborative and interdisciplinary research projects and to participate in existing projects and research centers. Paderborn University offers several possibilities for that, such as the Software Innovation Campus Paderborn (SICP) and the Paderborn Center for Parallel Computing (PC²). Furthermore, there are opportunities for cooperating with the Heinz Nixdorf Institut (HNI) and the Fraunhofer Institute for Mechatronic Systems Design (IEM).

With its participation in 3 DFG research units, 8 collaborative research centres, 13 interdisciplinary research institutes, 9 graduate programmes, and 14 priority programs, Paderborn University offers an ideal environment for the realization of innovative research ideas. As the site of a national high performance computing center, Paderborn University offers outstanding computational resources for the realization of these ideas.

**Hiring requirements:** § 36 Abs. 1 Ziff. 1 – 4 HG NW – University law of the State of NRW – (completed university degree, pedagogical aptitude, PhD degree and additional research achievements).

Since Paderborn University seeks to increase the number of female professors, applications of women are especially welcome. In case of equal qualification and scientific achievements, they will receive preferential treatment according to the North Rhine-Westphalian Equal Opportunities Policy (LGG), unless there are cogent reasons to give preference to another applicant. 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.

For further information, please contact the Head of the Department of Computer Science at Paderborn University, Prof. Dr. Christian Scheideler (eim-i-prodekan@uni-paderborn.de).

Applications with the common material, including a research and teaching plan, must be received by 31.03.2022 (Ref. No. 5074). Please send your application (preferably as a single pdf file) by email to eim-i-5074@campus.upb.de or to:

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