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**HOCHSCHULE OSNABRÜCK**

UNIVERSITY OF APPLIED SCIENCES



Welcome to Osnabrück University of Applied Sciences, the largest University of Applied Sciences in Lower-Saxony. We offer around 100 degree programs with practical relevance at three different locations, which reflects our impressive teaching and research strengths and provides great room for individual development. Our students benefit from our teachers' scientific and professional expertise, our international network and our modern university management. To support our team, we are looking for persons acting innovatively and striving to remain curious throughout their lives.

The Osnabrück University of Applied Sciences, Faculty of Engineering and Computer Science, is looking for a

## RESEARCH ASSISTANT (M/F)

### IN THE AREA OF COMPILER CONSTRUCTION/TOOLCHAIN DEVELOPMENT.

The assistant will be part of the project „Development of a High-Performance Reconfigurable Processor“ (HiPreP, see [www.hs-osnabrueck.de/hiprep](http://www.hs-osnabrueck.de/hiprep)), funded by the German Research Foundation (DFG), which strives to develop a coarse-grain reconfigurable processor targeting high-performance computing.

The following tasks are part of the independent scientific work of the project:

- development of a compiler prototype for the HiPreP processor, based on an compiler framework (probably LLVM)
- implementation of novel frontend analyses and optimizations, generation and mapping of dataflow graphs, place & route to the HiPreP architecture
- compiler test and HiPreP architecture evaluation by analyzing benchmarks
- instruction of student projects
- publication of the project results

Our requirements are:

- master degree or equivalent in computer science, electrical engineering or similar
- fluent in English, basic knowledge of German is helpful
- programming experience (C/C++), compiler construction knowledge
- basic knowledge in digital design and processor architecture
- independent but team-oriented working style

The full-time employment is limited to 2.5 years. Payment is according to German payment scale 13 of the TV-L. There is the possibility to earn a PhD degree in cooperation with a University.

For questions and further information, please contact Prof. Markus Weinhardt ([m.weinhardt@hs-osnabrueck.de](mailto:m.weinhardt@hs-osnabrueck.de)).

We are looking forward to welcoming to our team a motivated person willing to support us in the continuous development of our university. Interesting tasks, active students and committed colleagues are awaiting you.

#### It might also be of interest to you that:

Osnabrück University of Applied Sciences supports women within the scope of legal regulations and advocates gender equality and personal diversity. Our university supports balance between work and family, for example by offering very flexible working time models. Severely disabled applicants with equal aptitudes will be given preference.

Please send your application including all usual documents (in case of e-mail one pdf file only), by 07/24/17, quoting the reference number IuL 24-3, to:



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