

Vacancy Notice with reference number 182/2017

The Otto-von-Guericke-University Magdeburg seeks to fill the following vacancy:

Scientific research fellow

Faculty of Electrical Engineering and Information Technology, Institute for Information Technology and Communication, Chair of Hardware-Oriented Technical Computer Science

Salary scale:	Date commencing:	Fixed term for:	Contract status:
13 TV-L	01.10.2017	3 years	100 %

We are looking for a talented and ambitious researcher, who will work on interdisciplinary research projects on the field of **heterogeneous computing, reconfigurable systems, and hardware acceleration of database systems**. As part of this position, methods have to be developed for (partly) automated generation of runtime adaptive hardware accelerators on the basis of dynamically reconfigurable FPGAs as well as procedures for the integration into a heterogeneous system architecture consisting of (many-core) CPUs, FPGAs, and GPUs. Further, research in the field of runtime hardware/software partitioning of application, systematic exploration of different grades of parallelism present in heterogeneous systems, as well as high-level synthesis of circuits must be conducted. This vacancy is part of a research project funded by the **DFG priority program “Scalable Data Management for Future Hardware”**. There is an opportunity to obtain a PhD.

Requirements for the position:

- Applicants need to have a Diploma/Master degree in electrical engineering, computer science, or a similar course.
- Experience with circuit design for FPGAs and high-level synthesis
- Very good knowledge of programming and hardware description languages (C/C++, VHDL or Verilog)
- Experience with OpenCL, database systems, GPU accelerators, and partly reconfigurable FPGAs is desired.
- High level of independence, good command of English, and ability to work within an international team, wish to obtain a PhD
- Willingness to learn German language

For further information about the position, please contact:

Prof. Pionteck at: phone +49 (0) 391/67-57148 or via email: thilo.pionteck@ovgu.de.

Entwurf



Applicants from disabled persons will be given priority in case of equal suitability and professional expertise. The Otto-von-Guericke-University aims to increase the proportion of women researcher within the university and specifically encourages women to apply.

Please send your complete application (cover letter, curriculum vitae, references) quoting reference number **182/2017** by **August 25, 2017 (date of receipt of application)** to the address below:

Otto-von-Guericke-Universität Magdeburg
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bewerbung@ovgu.de