

## Vacancy Notice with reference number 188/2017

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	next available date	3 years	100 %

We are looking for a talented and ambitious researcher, who will work on interdisciplinary research projects on the field of **on-chip communication architectures** (especially **Network-on-Chips**), **heterogeneous 3D-System-on-Chips**, and **embedded systems**. As part of this position, new interconnection architectures have to be developed, which exploit the potentials of disparate technologies present in heterogeneous 3D-System-on-Chips. For a systematic exploration of the design space, modelling on the levels of application and technology is required. Further, new optimization methods have to be developed or existing methods must be adapted to the special requirements of this topic. The focus research is the development of architectural concepts and design methodologies; the development and production of ASICs is not scope of this position.

The researcher has to fulfill a teaching duty of 4 SWS (English and after the first year also in German), which comprises tutorials and practical courses. 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
- Very good experience with circuit design
- Very good knowledge of programming and hardware description languages (C/C++, VHDL or Verilog)
- Experience with on-chip interconnection architectures, Networks-on-chip, and 3D-System-on-Chip is desired
- High level of independence, very good command of English, 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](mailto:thilo.pionteck@ovgu.de).

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

Please send your complete application (cover letter, curriculum vitae, references) quoting reference number **188/2017** to the address below:



Otto-von-Guericke-Universität Magdeburg  
Dezernat Personalwesen  
Postfach 4120, 39016 Magdeburg  
[bewerbung@ovgu.de](mailto:bewerbung@ovgu.de)