Faculty of Computer Science

At the Institute of Applied Computer Science, the Chair of Industrial Communications offers a position as

**Research Associate**

(subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

starting at the **next possible date**. The position is limited until 30th of April 2021 with the option of an extension. The period of employment is governed by Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The position offers the chance to obtain further academic qualification. Balancing family and career is an important issue. The position is basically suitable for candidates seeking part-time employment. Please tell us in your application.

**Tasks:** analysis and development of concepts and architectures for an integration of Cyber Physical Systems and of Internet of Things components into industrial applications, specifically in automation and control systems; design of information models and their transition into software solutions; integration of information models into wireless and wired industrial communication systems and their associated software tools; technology screening of IoT and CPS. The research results shall be published at international conferences and in well-recognised journals.

**Requirements:** excellent university degree (M.Sc. or Diploma) in the field of Computer Science, Electrical Engineering or comparable; detailed knowledge in object-oriented software development and in model design using Unified Modeling Language (UML) or SysML, in description languages for automation components, and in information modeling in Automation, e.g. using OPC UA. Experiences with Industrial Ethernet and with industrial network management are of benefit.

Integrated in a highly dynamic field of research, the Chair of Industrial Communications offers chances to help shaping the future of communication systems in the context of Industrial Internet of Things (IIoT) and Industrie 4.0, to gain valuable experience in conducting research projects, and to build up or to extend a professional network with partners from research and industry.

Applications from women are particularly welcome. The same applies to people with disabilities. Please submit your comprehensive application including the usual documents by 10.03.2020 (stamped arrival date of the university central mail service applies) by mail to: TU Dresden, Fakultät Informatik, Institut für Angewandte Informatik, Professur für Prozesskommunikation, Herrn Prof. Dr.-Ing. Martin Wollschlaeger, Helmholtzstr. 10, 01069 Dresden or preferably via the TU Dresden SecureMail Portal https://securemail.tu-dresden.de as a single PDF document to martin.wollschlaeger@tu-dresden.de. Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

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**Reference to data protection:** Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: https://tu-dresden.de/karriere/datenschutzhinweis