Faculty of Computer Science

The Institute of Systems Architecture, Chair of Systems Engineering offers in the context of the Collaborative Research Centre/Transregio 248 „Foundations of Perspicuous Software Systems“ two positions as

Research Associate/ PhD Student/ Postdoc

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

starting at 01.03.2019. The positions are limited until 31.12.2022 with the option of extension (max. up to December 2025). The period of employment is governed by the Fixed-Term Research Contracts Act (Wissenschaftszeitvertragsgesetz- WissZeitVG). The positions offer the chance to obtain further academic qualification (e.g. PhD or habilitation thesis).

The Computer Science CSC/Transregio 248 lays the scientific foundations for the cyber-physical systems of the future, enabling them to explain their functionality and behavior (so-called Perspicuous Systems). We are researching a foundational and applicable theory of explanations for all facets of system behavior, as well as visual and verbal elucidation methods for diverse user groups. For more information see our homepage: www.perspicuous-computing.science.

Tasks: Independent research in the field of the chair, especially in the field of Trusted Computing.
In this context, the main research areas include the development of software components within and focus on the use of perspicuity in the context of dependable systems. It will investigate fundamental tools and techniques to improve the understanding and mitigation of erroneous system behaviors as well as to investigate/ verify an approach to improve the dependability of systems with the help of diverse replicas. The development, publication and presentation of scientific publications at national and international conferences as well as journals are expected.

Requirements: very good university degree (M.Sc., Dipl.) in Computer Science or related fields; strong skills in distributed systems, Secure data management; good knowledge of distributed algorithms; practical experience in dealing with different programming languages and concepts; ability to work independently and purposefully in a team; interest in interdisciplinary cooperation in all areas of computer science as well as with industrial partners; fluency in English-written and oral; an integrative and cooperative personality with excellent communication and social skills; high engagement. Previous experience in the field of Trusted Computing is beneficial.

What we offer: You join a team of enthusiastic scientists who creatively pursue their individual research work.

Applications from women are particularly welcome. The same applies to people with disabilities. Your application (in English only) should include: motivation letter, CV, copy of degree certificate and proof of English language skills. Complete applications should be submitted preferably via the TU Dresden SecureMail Portal https://securemail.tu-dresden.de by sending it as a single pdf document quoting the reference: “SFB/ Transregio 248” in the subject header to christof.fetzer@tu-dresden.de or via mail to TU Dresden, Fakultät Informatik, Institut für Systemarchitektur, Professur für Systems Engineering, Herrn Prof. Dr. Christof Fetzer, Helmholtzstr. 10, 01069 Dresden, Germany. The closing date for applications is 17.01.2019 (stamped arrival date of the university central mail service applies). Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

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