The Transregional Collaborative Research Center (SFB) 248 “Foundations of Perspicuous Software Systems” invites applications for two positions as

**Research Associate/ PhD Student/ Postdoc**

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

starting **as soon as possible.** The positions are fixed-term to **31st of December 2022.** The period of employment is governed by the Fixed-Term Research Contracts Act (WissZeitVG). The positions aim at obtaining further academic qualification (e.g. PhD/habilitation thesis). Balancing family and career is an important issue. The posts are basically suitable for candidates seeking part-time employment. A part-time employment with 50% of the full time weekly hours is possible.

The Computer Science CRC 248 lays the scientific foundations for the cyber-physical systems of the future, enabling them to explain their functionality and behaviour (so-called Perspicuous Systems). We are researching a foundational and applicable theory of explications for all facets of system behaviour, as well as visual and verbal explanation methods for diverse user groups. More information can be found at [www.perspicuous-computing.science](http://www.perspicuous-computing.science).

As a member of the Interactive Media Lab Dresden you will be part of a successful team of experienced researchers of diverse backgrounds. You will work in the vibrant scientific environment of the CRC/TR 248 and TU Dresden, one of the leading German research universities. Dresden is a city highly worth living in with a rich cultural life and beautiful nature.

**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.), and if applicable a PhD, 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.

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](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](mailto: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 **14th of June 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.

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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](https://tu-dresden.de/karriere/datenschutzhinweis)