Technische Universität Dresden (TUD), as a University of Excellence, is one of the leading and most dynamic research institutions in the country. Founded in 1828, today it is a globally oriented, regionally anchored top university as it focuses on the grand challenges of the 21st century. It develops innovative solutions for the world's most pressing issues. In research and academic programs, the university unites the natural and engineering sciences with the humanities, social sciences and medicine. This wide range of disciplines is a special feature, facilitating interdisciplinarity and transfer of science to society. As a modern employer, it offers attractive working conditions to all employees in teaching, research, technology and administration. The goal is to promote and develop their individual abilities while empowering everyone to reach their full potential. TUD embodies a university culture that is characterized by cosmopolitanism, mutual appreciation, thriving innovation and active participation. For TUD diversity is an essential feature and a quality criterion of an excellent university. Accordingly, we welcome all applicants who would like to commit themselves, their achievements and productivity to the success of the whole institution.

At the Faculty of Computer Science, Institute of Systems Architecture, the Chair of Systems Engineering (www.inf.tu-dresden.de/sya/se) offers three positions as

Research Associate/ PhD Student/ Postdoc (m/f/x)

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

starting at February 1, 2023 and ending the October 31, 2025 with the option of extension within following projects, subject to the availability of resources. The period of employment is governed by the Fixed-Term Research Contracts Act (Wissenschaftszeitvertragsgesetz- WissZeitVG). The position offers the chance to obtain further academic qualification (e.g. PhD or habilitation thesis).

The Chair of Systems Engineering is conducting research in the EU third-party funded project NEARDATA.

**NEARDATA**

The main goal is to design an extreme near-data platform to enable consumption, mining and processing of distributed and federated data without needing to master the logistics of data access across heterogeneous data locations and pools. We go beyond traditional passive or bulk data ingested from storage systems towards next generation near-data processing platforms both in the Cloud and in the Edge. In our platform, Extreme Data includes both metadata and trustworthy data connectors enabling advanced data management operations like data discovery, mining, and filtering from heterogeneous data sources.

**Tasks:** Independent research in the field of the chair, especially in the field of cloud computing and confidential computing. In this context, the main research areas include the development of software components within the NEARDATA-project. 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 and – if applicable- PhD degree, strong skills in distributed systems, 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. We search for a personality having practical experiences with various programming languages and concepts.
**What we offer:** You join a team of enthusiastic scientists who creatively pursue their individual research work.

TUD strives to employ more women in academia and research. We therefore expressly encourage women to apply. The University is a certified family-friendly university and offers a Dual Career Service. We welcome applications from candidates with disabilities. If multiple candidates prove to be equally qualified, those with disabilities or with equivalent status pursuant to the German Social Code IX (SGB IX) will receive priority for employment.

**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: “NEARDATA” 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 **December 1, 2022** (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](https://tu-dresden.de/karriere/datenschutzhinweis).