The Centre for Information Services and High Performance Computing (ZIH) offers within the framework of the externally funded project "ScaDS.AI - Center for Scalable Data Analytics and Artificial Intelligence Dresden/Leipzig" with its focus on research and development for big data and artificial intelligence 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 31.12.2022. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz-WissZeitVG). Balancing family and career is an important issue. The position is basically suitable for candidates seeking part-time employment. Please note your request in your application. The position offers the chance to obtain further academic qualification.

**Tasks:**
Scientific research and development work in the field of machine learning (ML), in particular the investigation of methods for the distributed execution or parallelisation of ML applications; performance analysis and optimisation of applications using learning methods, in particular for data-intensive scientific applications; analysis of the execution of different ML applications on different architectures (GPU/CPU) with respect to execution efficiency; characterisation of the overall performance of ML applications; generalisation of parallelisation strategies for ML applications and support for the transfer to other subject areas.

**Requirements:**
University degree (M. Sc. or equivalent) in computer science, mathematics or a comparable engineering; a high degree of independence, commitment, flexibility and team spirit as well as very good English skills, as well as knowledge in the field of artificial intelligence or machine learning, data analytics or scientific computing. Experience in working with HPC systems and/or distributed computing (grid computing, cloud computing) and in working with visualisation tools and methods of data management and data mining are desired.

Applications from women are particularly welcome. The same applies to people with disabilities.

Please submit your comprehensive application including the usual documents by 23.09.2020 (stamped arrival date of the university central mail service applies) to **TU Dresden, Zentrum für Informationsdienste und Hochleistungsrechnen, Herrn Prof. Dr. Wolfgang E. Nagel, Helmholtzstr. 10, 01069 Dresden** or via the TU Dresden SecureMail Portal [https://securemail.tu-dresden.de](https://securemail.tu-dresden.de) by sending it as a single pdf-document to zih@tu-dresden.de. 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)