The **Center for Information Services and High Performance Computing (ZIH)** is offering the following position as part of the NHR center (National High Performance Computing) of TU Dresden starting **as soon as possible**

**Research Scientist for Data Science in HPC Environments (m/f/x)**
(subject to personal qualification according to salary group E 13 TV-L)

initially until December 31, 2025 with the option for extension. 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 generally suitable for candidates seeking part-time employment. Please indicate your request in your application.

As competence center for High Performance Computing (HPC), ZIH has been providing access to substantial HPC resources to researchers from a wide range of areas and supporting them in their efficient and highly scalable use for scientific computing since 2005. In addition, ZIH does extensive methodological research and cooperates in numerous projects with national and international partners. Since 2021, ZIH has been one of nine National Centers for HPC (NHR), providing HPC services throughout Germany. We offer highly interesting and creative work topics in current research areas, a state-of-the-art IT infrastructure, flexible working hours, and a family-friendly working environment and life in a city of science and culture surrounded by a unique landscape.

**Tasks:**
- adapt and extend software frameworks for Data Analytics and Big Data towards efficient and high-performance execution in HPC clusters
- application of such frameworks and programs for ambitious research projects by application area researchers incl. active support during porting/implementation, performance tuning and scaling
- connection to data-driven workflows as well as storage and data management
- scientific consulting to application scientists on promising technologies, algorithms, applications, software frameworks or libraries and open source or community codes
- conceptual design of future hardware and software environments
- documentation, publication, and presentation of scientific results.

**Requirements:**
- university degree in computer science, electrical engineering, mathematics or a comparable engineering or natural science
- experience with relevant data science applications/libraries/programming languages
- practical knowledge and experience working under Linux; knowledge in operating and administration of Linux systems and HPC systems under Linux is a plus
- fluency in German and English
- communication skills, especially with partners from different fields; ability to familiarize with interdisciplinary and specialized scientific topics
- high degree of independence, commitment and flexibility.
- Solid programming skills, additional skills in parallel programming as well as experience in the use of data processing, data collection and preparation, simulations, data analysis, high performance computing or similar for scientific applications is a plus.

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

Please submit your application with the usual documents under the **job ID "NHR 4"** until **August 29, 2022** (stamped arrival date of the university central mail service applies), preferably via the TU Dresden SecureMail Portal [https://securemail.tu-dresden.de](https://securemail.tu-dresden.de) as a PDF document to **zih@tu-dresden.de** or to: **TU Dresden, ZIH, Herrn Prof. Dr. Wolfgang E. Nagel, Helmholtzstr. 10, 01069**
Dresden, Germany. 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