TUD Dresden University of Technology, as a University of Excellence, is one of the leading and most
dynamic research institutions in the country. 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.

As competence center for High Performance Computing (HPC), the Center for Information Services
and High Performance Computing (ZIH) is offering since 2005 access to substantial HPC resources to
researchers from many different areas and support for efficient and highly scalable usage for scientific
computing. Since 2021 it is one of nine German NHR centers (centers for National high-performance
computing) – NHR@TUD – and offers HPC services and support on a national level. In addition, ZIH is
active in computer science research cooperation with national and international partners in different
projects.

The ZIH offers a position within the research project „National Research Data Infrastructure for and
with Computer Science (NFDIxCS)” as

**Research Associate (m/f/x)**
(subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

starting as soon as possible, subject to the availability of resources. The position is limited until
December 31, 2027. 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 / habilitation thesis). Balancing family and career is an important
issue. The position is generally suitable for candidates seeking part-time employment. Please indicate
the request in your application.

The goal of NFDIxCS is to provide a German-wide infrastructure for the sustainable storage and
 provision of data from computer science according to the FAIR principles. ZIH focuses on data from
detailed performance monitoring of high-performance computers and applications running on them.
The job offers access to state-of-the-art hardware at the national high performance computing center
NHR@TUD and project partners. The position is embedded in a team of experts in performance
engineering and cooperates with other consortia of the National Research Data Infrastructure (NFDI).

**Tasks:**
- Research and development work in the area of high-performance computing (HPC), in
  particular on methods for generating and exchanging performance monitoring data from HPC
- Extension of existing software tools for performance monitoring of HPC applications and HPC
  systems by recording metadata about the software and hardware environment
- Development of a sustainably operated portal/repository for the exchange of performance
  data including query based on the metadata
- Documentation, training, presentation of results at conferences and in scientific publications.

**Requirements:**
- university degree in computer science, applied mathematics, or a comparable engineering or
  natural science with relation to high performance computing
- confident use of Linux and experience in programming with C/C++
- experience in modern software engineering and version control with Git
- high degree of independence, commitment, communication skills and team spirit
- confident command of the English language, both written and spoken.
- Experience in the use of high-performance computers is desirable.

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.

Please submit your detailed application with the usual documents mentioning the Job-ID “NFDIxCS” until July 28, 2023 (stamped arrival date of the university central mail service applies) via the TU Dresden SecureMail Portal https://securemail.tu-dresden.de as single pdf file to zih@tu-dresden.de or to: TU Dresden, Zentrum für Informationsdienste und Hochleistungsrechnen (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.