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 Associate for the support of Life Sciences research with High Performance Computing, Data Analytics and AI methods (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 the 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:**
- scientific consulting and support for researchers from Life Sciences (biology, medicine, etc.) with their computational science challenges using HPC incl. simulations, data analytics and machine learning, etc.
- conceptual design and implementing new HPC projects
- analysis and adaptation of existing research codes in close cooperation with application area scientists
- scientific consultation about promising HPC technologies, algorithms, applications, software frameworks, libraries, Open Source and community codes
- integration into data-driven workflows as well as storage and data management
- documentation, publication and presentation of scientific results.

**Requirements:**
- university degree in a life science (biology, medicine, etc.) or in computer science, mathematics with additional experience in life science applications
- experience with computational science research projects from relevant disciplines using extensive data processing, data collection, simulations, data analysis, HPC or similar
- practical knowledge and experience working under Linux
- practical knowledge and experience with relevant application programs, software frameworks, libraries and community codes
- fluency in German and English
- communication skills, especially with partners from different fields
- high degree of independence, commitment and flexibility
- solid programming skills.
- Additional skills in parallel programming as well as knowledge in operating and administration of HPC systems 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 6" 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 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://tudresden.de/karriere/datenschutzhinweis