The Center for Information Services and High Performance Computing (ZIH) is a partner of the funding project DARWIN within the Federal Aeronautical Research Programme. Within this joint research project, the ZIH will make its contributions to the further development, application and validation of innovative digital simulation and design processes as well as to methods of artificial intelligence for the improvement of the interdisciplinary understanding of engine systems. Within the project DARWIN the ZIH offers a position as a

Research Associate
Programming, Optimization and Software Tools for High Performance Computing
(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 August 31, 2023. 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. Balancing family and career is an important issue. The post is generally suitable for candidates seeking part-time employment. Please indicate your request in your application.

Tasks:
• Performance analysis and optimization of highly parallel coupled simulations
• Extension of established software tools for parallel performance analysis for support of coupled parallel codes
• Extension of software tools for the continuous recording of metadata about simulation runs and essential performance data
• Support for the design, implementation, and operation of a data and metadata repository for the structured, central data and metadata collection

Requirements:
• university degree (M.Sc. or equivalent) in Computer Science, Electrical Engineering, Mathematics or a suitable engineering discipline
• knowledge in parallel programming and scientific computing
• experience in using high performance computing and Linux
• good German or English language skills and basic skills in the other language.

Applications from women are particularly welcome. The same applies to people with disabilities. Please submit your comprehensive application including the usual documents with indication "Darwin" by February 19, 2021 (stamped arrival date of the university central mail service applies) to TU Dresden, Zentrum für Informationsdienste und Hochleistungsrechnen, Herrn Prof. Dr. Wolfgang E. Nagel, Helmholtzstraße 10, 01069 Dresden or via the TU Dresden SecureMail Portal 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 cannot 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.