

**Are you looking for a new professional challenge?
Then this is the place to be!
Become part of our international team!**



August 6th 2024

The Zuse Institute Berlin (ZIB) is a non-university research institute under public law of the State of Berlin. Research focuses on application-oriented mathematics and practical computer science as well as the analysis and processing of complex data in connection with high-performance computers. For the 'Massively Parallel Data Analysis' working group in the 'Distributed Algorithms' department, we are looking for the following person at the earliest possible date or by arrangement, limited until June 30th 2028

PhD Student / Scientific Employee (w/m/d)

Reference Code: WA 31/24

Pay grade E13 TV-L Berlin – 100%

on the topic

'Proactive Network, I/O, and Storage Steering in Distributed Systems'

In the second phase of the DFG-funded Collaborative Research Centre SFB 1404 'FONDA: Foundations of Workflows for Large-Scale Scientific Data Analysis' at HU Berlin, we are researching in the sub-project 'B4: Proactive Network, I/O, and Storage Steering for Multiple DAWs on Shared Infrastructures' at ZIB in cooperation with TU Darmstadt new methods for the more efficient execution of so-called scientific data analysis workflows. This is achieved, for example, through automated, predictive distribution or migration of data objects for faster data access or through customised bandwidth allocation for less interference when several applications use the same execution platform in parallel. A connection between the project work and a doctoral project is desired and supported.

Your tasks

- Development, implementation and analysis of new methods with regard to the project objectives
- Testing and adapting the developed methods to cluster systems
- Active co-operation and coordination with the project partners,
- Goal-orientated, scientific work
- Publication of the results in conference and journal articles

Your profile

- University degree (Master's/Diploma) in computer science, mathematics or comparable subjects
- Knowledge of distributed systems, networks and file systems
- Programming experience preferably in C, C++, Java, Python and daily use of Linux
- Strong interest in new research questions, their solution and practical implementation
- good knowledge of the English language

Additionally, you have

- confident communication and teamwork skills,
- a high degree of independence and commitment as well as
- the ability and willingness to write scientific publications on an international level.

We are offering an active onboarding process to provide new employees with the skills and knowledge that are important for their success in our institute and their career. We offer a family-friendly working environment through flexible working and meeting hours

as well as

- comprehensive training in a competent and cooperative team,
- an additional pension scheme (VBL),
- 30 days annual leave, additionally free from work on December 24th and 31st,
- compatibility of work and family through flexible working hours, e.g. (flexitime),
- a salary in accordance with TV-L (Collective Agreement for the Public Service of the Federal States), taking into account the relevant professional experience,
- an allowance of up to €150 per month, alternatively a discounted BVG (public transport) ticket + difference amount,
- an end-of-year bonus
- and the use of canteens and sports programs of the Freie Universität Berlin (FUB) at reduced rates.

Although this position advertised is full-time, a part-time agreement is also possible.

Female applicants are highly encouraged to apply. Since women are underrepresented in information technology, the ZIB is trying to increase the proportion of women in this research area.

Applicants with disabilities will be given preference if equally qualified.

Please send your application, quoting the reference code **WA 31/24**, including a cover letter containing a statement of your research interests, your CV and the standard supporting documents as **one PDF file** by September 15th 2024 (date of receipt) to: jobs@zib.de.

Our private policy statement regarding application data is available at www.zib.de/impresum.

For further information on the area of responsibility, please contact Dr. Florian Schintke (schintke@zib.de).

For further job offers please visit our website at <https://www.zib.de/jobadvertisement>.