September 18th, 2025

The Zuse Institute Berlin (ZIB) is a non-university research institute under public law of the state of Berlin, dedicated to interdisciplinary research in applied mathematics and data-driven science. Within the Supercompiting department, we are offering a position, starting on October 1st, 2025, for a

Researcher / Research Software Engineer (f/m/d)

on a full-time basis (39,4 hours per week), limited until December 31th, 2025. If the applicant meets the relevant wage requirements and personal qualifications, the salary will be based on remuneration group 13 TV-L of the pay scale for the German public sector.

The Supercomputing department performs research and development work on heterogeneous compute and storage architectures in context of high-performance computing (HPC) and data analytics (HPDA). Within the project "NAAICE - network-attached accelerators for energy-efficient heterogeneous computing" funded by the Federal Ministry of Education and Research, the potential of stand-alone, network-attached FPGA accelerators is investigated to enable energy-efficiency of HPC applications. The successful applicant will contribute to the implementation of system software and selected functionality in a demonstrator application based on final design decisions to be made in the first phase of the project.

Your tasks

- Integration of network-attached accelerators (FPGA) into user workflows
- Evaluation and tuning of existing as well as implementation of new kernels for offloading selected functionality of the demonstrator software POET
- Integration, extension, and testing of existing services, middleware and resource management system (Slurm) to setup a working infrastructure for network attached accelerators

Your profile

- University degree (M.Sc. or diploma) in computer science or a related field
- Knowledge of programming FPGAs using Intel oneAPI or similar HLS toolchains
- Good practice of software development on Linux, knowledge of Linux system administration desirable
- Desirable is a basic knowledge in the use of or programming experiences with the Slurm resource management system
- Experience and fluency with software development tools (e.g., version control, especially git, build tools)
- Good communication skills in German and English
- Ability to work in a team with a strong focus on self-reliance, pro-activity, and creativity

We offer a friendly work environment with flexible work and meeting times, excellent equipment and a challenging professional environment

as well as

- an active onboarding process to provide new employees with the skills and knowledge that are important to their success in our institute and their careers,
- a varied, future-oriented and responsible field of activity,
- professional training opportunities and support in professional development,
- an additional pension scheme (VBL),
- 30 days annual leave, flexible working hours (flexitime),
- a salary based on TV-L (collective agreement for the public service of the federal states) in accordance with qualifications and professional experience with annual bonus payment,
- capital allowance of up to € 150 per month, or alternatively a BVG job ticket plus the remaining balance,
- the use of canteens and sports programs of the Freie Universität Berlin (FUB) at reduced rates.

Applicants with disabilities will be given preference if equally qualified. Female applicants are highly encouraged to apply, since women are under-represented in natural sciences and ZIB seeks to increase the proportion of women in this field.

Please send your complete application including all relevant documents by **September 24th, 2025** (date of receipt), quoting the **Reference Number IWA 24/25** as **one PDF file** to: jobs@zib.de.

For further information about the position, please refer to our website www.zib.de or contact Dr. Steffen Christgau (christgau@zib.de).

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

For further job offers please visit our website at www.zib.de/jobadvertisement.