You are looking for an employer you can count on? Join us!

Programming Expert (m/f/d) in High Performance and Parallel Computing for GPU-Accelerated HPC Applications

Your Role and Responsibilities:

- Support the porting of user codes to different GPU accelerators from different vendors
- Benchmark key HPC-codes (user/community) with GPU acceleration on different LRZ systems
- Automatize benchmarking and application testing
- Support benchmark development for future HPC procurements
- Support/mentor large-scale compute projects on the upcoming SuperMUC-NG Phase 2
- Conduct/organize tutorials and workshops for code developers
- Expert support for user tickets

Basic Qualifications:

- PhD or university (post) graduate degree, diploma, master's degree or equivalent in a scientifically oriented subject (computational science, physics, mathematics, chemistry, life sciences etc.)
- Good experience in GPU (accelerator) programming and optimization with either CUDA, HIP or DPC++ and either OpenMP, OpenACC, or OpenCL
- Programming skills in a core HPC programming language (C, C++, Fortran) and at least one scripting language (Python, R, julia, etc.)
- Experience in Parallel Programming with MPI and GPUs
- Knowledge of Gitlab/Github, CI/CD methods, and/or Jenkins
- Knowledge of HPC environments and system software, e.g. spack package manager
- Good oral presentation and writing skills in German or English

Area	Computational X Support
Working time	full time (40,1 Std) flexible working model with electronic time recording
Term of the contract	24 months, a further employment is intended
Remuneration	possible until E 13, see Entgelttabelle TV-L

Annual leave / compensatory time off	30 days (24.12. + 31.12. additionally day off) Overtime is compensated by additional time off
Further trainings	Individual support for in-service training and further education
Benefits	e.g. home office option, public transport discount (job ticket), bus and subway (U6) on the doorstep, free parking, pension plan of the Versorgungsanstalt des Bundes und der Länder (VBL), state-of-the-art work equipment

What can you find with us?

Are you looking for a multifaceted and intellectually stimulating position in a dynamic, cooperative and innovative work environment? Then LRZ is the place to be for you! Here at LRZ a collegial, appreciative work environment meets an international crowd of experts who work together to advance IT services for ground-breaking research. We offer flexible work schemes for an optimal work-life balance. Our staff values their creative leeway. As an institute of the Bavarian Academy of Sciences and Humanities we offer all the benefits of public service. And of course, no wishes remain unfulfilled at the LRZ in terms of technical equipment. We actively promote diversity and welcome applications from talented individuals, regardless of cultural background, nationality, ethnicity, gender and sexual identity, physical abilities, religion and age. We give priority to applications from people with disabilities who are equally qualified (SGB IX).

The LRZ in a nutshell:

Since 1962, Bavarian universities and research institutions have relied on the IT expertise of the Leibniz Supercomputing Centre. When it comes to the digitisation of science, we are traditionally ahead of the game.

You can count on us! Can we count on you?

We are looking forward to receiving your complete application documents (including cover letter, CV and certificates) in a single PDF file via e-mail (other file types are not accepted) by latest **25.09.2022**:

E-Mail: jobs@lrz.de
Subject: **Accelerator (2022/25)**

Are you unsure whether the job suits you or you suit us? Or do you still have questions about this position? Our colleagues will be happy to answer all your questions at the above e-mail address.

This job does not fit? Then take a look at https://www.lrz.de/wir/stellen/ or send us an unsolicited application!

Here you will find information about the collection of personal data during the application process.