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

We are looking to fill a position for technology evaluation and Hardware and Software co-design of HPC prototype solutions:

High-Performance Computing (HPC) Engineers (m/f/d)

This is what you can expect from us:

- Access to prototype systems not yet available on the market
- Close contact with HPC technology providers and developers (hardware/software)
- Working on the design of a leadership HPC system
- User projects with novel approaches
- Friendly, open and international work environment

This is what we expect from you:

- Proficiency working in Linux environments
- Good German or English writing and presentation skills
- Friendly contact with our users in second and third level support
- Masters degree in computer science, physics, computational chemistry, mathematics or other areas of scientific computing

These additional skills are appreciated:

- Programming experience in C, C++, Fortran
- Git, GitLab, CI/CD
- CUDA / SYCL / OpenMP programming of GPUs
- Package manager: SPACK, EasyBuild
- Parallel I/O
- System monitoring
- Direct liquid cooling
- Good overview of the currently available HPC hardware and software solutions
- Proficiency/experience in at least **one or more** of the following technologies
    - HPC hardware (CPUs and accelerators)
    - HPC interconnects (Infiniband/OmniPath)
    - Parallel file systems and high performance storage systems
    - Porting and optimization of HPC applications
    - Containerization in the cloud and/or HPC systems
    - Memory tiers / memory management
    - Scheduling / system tools for HPC
    - Performance / power consumption modelling and prediction

Area	High Performance Systems Division
Working time	full-time (40,1 hrs) / part-time possible Flexible working time model with electronic time recording
Employment contract	24 months, with extension pending
Payment	E13, see Entgelttabelle TV-L
Vacation/Leisure	30 days (24.12. + 31.12. additionally day off) Overtime is compensated by additional time off
Further education	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 equip- ment

What can you find with us?

Are you looking for a varied and challenging job in a dynamic, cooperative and innovative working environment? Then the LRZ is the right place for you!
Exciting tasks in the service of research, a collegial, appreciative working environment, an international, stimulating, diverse corporate climate; flexible working for an optimal work-life balance and a lot of creative freedom: that is the standard at our centre.
In addition, we offer all the benefits of public service in our computer centre, which is equipped with the most modern components and also offer all the advantages of the public sector.
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 if they are equally qualified (keyword 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 digitization 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 **18.09.2022**:

> E-Mail: jobs@lrz.de
> Betreff: **Hardware and Software Co-Design (2022/20)**

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.