The High Performance Computing Center Stuttgart (HLRS) is the first national supercomputing center in Germany (since 1996). It operates one of the fastest supercomputers in the world and provides access to supercomputers for universities and research institutions as well as for industrial partners. HLRS holds a worldwide leading position in the research areas of parallel computing, cloud computing and high-performance data analysis. HLRS is also significantly involved in international and national research projects.

HLRS offers a comprehensive range of **training courses** in the field of HPC, AI, and related technologies to scientists and experts from the university environment, research institutions, as well as from industry and small and medium-sized enterprises.
Our department "Training and Scalable Algorithms" (TASC) is responsible for the development and organization of the HLRS training courses, which are in high demand nationally and internationally. TASC runs and further develops existing courses, at the same time integrating new topics in HLRS's training offer (e.g. **artificial intelligence, hardware accelerators, quantum computing**).

TASC is currently looking for an

Expert in HPC Skills / Expert in HPC Training (f/m/d)

(100%, TV-L 13)

HLRS_14_2025

You will support our team in shaping the HLRS's training concept and contributing to the project **EVITA**: **EuroHPC Virtual Training Academy**. The EVITA project addresses the critical issue of equipping future professionals with multidisciplinary knowledge and skills, essential for maintaining Europe's independence in **digital technologies**.

EVITA will build on the EuroHPC JU project HPC SPECTRA.

HLRS Training: https://www.hlrs.de/training

HPC-SPECTRA: https://www.hpc-spectra.eu/

Your specific tasks in the project EVITA:
- Develop a compendium of HPC skills, the **HPC Skill Tree**, and set up qualification and certification schemes for the course modules developed within the project.
- **Co-lead the corresponding work package**.
- Identify HPC training providers, courses and training materials to build up the EVITA Competence and Qualification Framework.
- Contribute to develop the EVITA **training platform**.

Your tasks as a member of TASC at HLRS:
- Autonomous **research in the areas of HPC and AI**: Big data analytics, artificial intelligence, emerging computer architectures and domain-specific technologies.

- Developing **new courses and modules** that represent the current state of research.
- **Teaching and support** of participants in our courses.
- Creation, supervision and assessment of exercises and examinations.
- Strengthening the visibility of our course program (especially for **industry**).

Your qualifications:

- You have successfully completed a **university degree** in the area of engineering, natural sciences, mathematics, computer science, or a comparable qualification with a technical focus.
- You have relevant experience in designing and conducting **workshops or tutorials**.
- You have very good **communication skills** also towards large audiences. You enjoy interacting with people.
- You have some experience in project management or working in a (research) **project**.
- You have good **programming skills** in at least one established high-level language (e.g. Python, C/C++, Fortran).
- You are able to work in a **team**; and at the same time, you can work **independently** and pragmatically.
- You are proficient in **English**, written and spoken, and have at least a good command of **German**, written and spoken.

Ideally, your profile is supplemented by:

- Experience with **larger software packages**, especially content and learning management systems (such as Typo3, Drupal, ILIAS).
- Experience with **parallel programming** paradigms.
- Experience with **AI workloads** and **AI frameworks** and libraries (e.g. scikit-learn, TensorFlow, or PyTorch).
- Experience with **Linux-based systems**.
- Experience with batch and workload management systems, parallel file systems (e.g. Lustre), heterogeneous HPC clusters with GPUs, or FPGAs.
- Experience in writing project proposals.

As a member of our team, you can expect:

- Working in an EU project with 8 international partners.
- A professional working environment in a friendly, highly motivated and collaborative international team.
- Flexible working hours and 30 days paid leave per year (plus the public holidays in the state of BW, also December 24 and 31).
- The possibility of remote work (German: „ortsunabhängiges Arbeiten") generally up to 60%. Workplace is the HLRS at the University of Stuttgart.
- Use of the wide range of training opportunities at HLRS, of personnel development (e.g. communication and teaching skills, languages, leadership) and of the sport facilities of the University of Stuttgart.

- The social benefits of the public service and an allowance for local public transport.

The position is temporary starting on a date to be agreed with the applicant. Employment in this position has to comply with the legal regulations and is limited to the duration of the EVITA project, which is scheduled to start in **April 2025** and run for **four years**. Salary for this position is based on TV-L 13.

HLRS is committed to supporting and retaining talented people even at the conclusion of projects, when possible: Before the project ends, HLRS might examine what possibilities might exist for a contract extension, based on funding that is available at that time and in accordance with the legal regulations.

Are you interested?
Then we are looking forward to receiving your application!
Your application should **include** a cover letter, your CV, your university degrees and relevant employers' references.
Please **send your application** preferably by e-mail (**as one PDF file**) with the subject "**HLRS_14_2025**" to: **bewerbungen@hlrs.de** by **March 30th, 2025**.

For **questions regarding the content of the job posting**, please contact Dr.-Ing. Lorenzo Zanon via **courses@hlrs.de** .

In an effort to strengthen the presence of female workers in the scientific areas, the University of Stuttgart invites women to apply for this job opening. Full-time positions may in general be turned into part-time positions. Disabled people will have priority as long as they are equally qualified. The recruitment process will be handled by the central administration of the University of Stuttgart. Information on the handling of applicant data in accordance with Art. 13 DS-GVO can be found at: http://www.uni-stuttgart.de/datenschutz/bewerbung/ .