Saarland University is a campus university with an international reputation for research excellence, particularly in computer science and in the life sciences and nanosciences. The university is also distinguished by its close ties to France and its strong European focus. Around 17,000 students, studying over one hundred different academic disciplines, are currently enrolled at Saarland University. Saarland University is officially recognized as one of Germany's family-friendly higher-education institutions and with a combined workforce of more than 4000 it is one of the largest employers in the region.

The Center for Scientific and High-Performance Computing (CSHPC) is inviting applications for the following position commencing **at the earliest opportunity.**

Academic research assistant (m/f/x)

Reference number W2826, salary in accordance with the German TV-L salary scale[1], pay grade: E13 TV-L, duration of employment: end of 2031 with the aim of making the position permanent, volume of employment: 100 % of standard working time.

Workplace/Department:

The newly established Center for Scientific and High-Performance Computing (CSHPC) will serve as a central scientific institution offering high-performance computing and related services to all departments at Saarland University and will represent the university in the German national high-performance computing initiative (NHR). The focus of this position will be on providing scientific advice and support to research groups in the NHR and at Saarland University on the efficient use and further development of cutting-edge machine learning methods on high-performance computing systems. This includes analyzing and optimizing ML workflows, evaluating and selecting suitable learning paradigms and frameworks, and developing best-practice guidelines for using scalable and reproducible ML software. The responsibilities also include close collaboration with scientific partners, organizing workshops and training courses, establishing an independent research program in the areas of ML for HPC, and contributing to the design and strategic development if Saarland University's HPC infrastructure.

Job requirements and responsibilities:

* Planning, organizing, and delivering seminars, workshops, and training courses on machine learning on HPC systems (e.g., GPU/TPU acceleration, distributed deep learning, ML frameworks such as TensorFlow and PyTorch, MPI-based training) for the NHR
* Serving as a technical contact point for questions regarding the use of ML methods in HPC (model parallelism, data parallelism, hyperparameter optimization, mixed precision, scalability) for research groups at Saarland University and within the NHR
* Developing teaching and information materials (lecture notes, tutorials, best-practice guidelines) on ML workflows, performance profiling, and reproducible research

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[1] TV-L = collective agreement on remuneration of public sector employees in the German *Länder*

- Contributing to third-party funding proposals and participating in larger research programs at the interface of ML and HPC
- Conducting independent research in applications of ML in natural and life sciences (e.g., ML-assisted molecular dynamics, protein folding, materials design, climate modeling) or in the development of scalable systems for machine learning (e.g., ML optimizations for HPC architectures, efficient data storage and processing)
- Publishing research results in scientific journals and conference proceedings
- Supervising students and doctoral researchers
- Supporting the installation, configuration, and maintenance of HPC infrastructures, particularly GPU/accelerator stacks, container environments and associated ML software (CUDA toolkit, ML frameworks, ..)

Your academic qualifications:
- Completed university studies in computer science or a related subject area, such as mathematics or physics, preferably followed by a successful doctorate
- Language skills (according to GER): English C1

The successful candidate will also be expected to:
- Very good knowledge of HPC technologies, parallel programming and/or programming languages, and benchmarking
- Experience with the administration of Linux-based systems, ideally also HPC infrastructures
- Independent, structured way of working
- Strong communication skills and service orientation
- Ability to work in a team and willingness to collaborate across disciplines
- Experience in scientific work, preferably demonstrated by scientific publications
- Language skills (according to GER): preferred German B2

What we can offer you:
- A flexible work schedule allowing you to balance work and family, among other things the possibility of teleworking
- Secure and future-oriented employment with attractive conditions
- A broad range of further education and professional development programmes (for example language courses)
- An occupational health management model with numerous attractive options, such as our university sports programme
- Supplementary pension scheme (RZVK)
- Discounted tickets on local public transport services ('Job-Ticket Plus' of the saarVV)

We look forward to receiving your **meaningful online application** (in a PDF file) by **03.05.2026** to **administration@cs.uni-saarland.de**. Please include the reference number **W2826** in the subject line of the e-mail.

If you have any **questions**, please contact us for assistance. Your contact:
Herr Prof. Dr. André Brinkmann
Email: brinkmann@cs.uni-saarland.de