

Helmut Schmidt University
Hamburg, Germany



PhD/Postdoc position on High Performance Computing in Hamburg (TVöD, E13, 100%)

- **Deadline:** Feb. 13, 2023
- **Career levels:** PhD student, PostDoc
- **Keywords:** Approximate computing, Energy efficiency / Low-power computing, High-performance computing, Performance portability, Simulation

At Helmut Schmidt University Hamburg, Professorship for High Performance Computing (Prof. Philipp Neumann), a position is available from the next possible date for a Research Assistant (PhD/Postdoc; m/f/d), Salary group 13 TVöD; 39 hours per week, for a limited period period of 3 years.

The research tasks of this position deal with the development of novel algorithms, efficient implementations or efficient data analysis methods on current HPC systems. Possible foci of the work arise in the scope of multiscale flow simulation development with the software MaMiCo which is developed at the chair as well as with regard to collaborative developments of molecular dynamics simulations.

Qualification requirements:

- A completed scientific university degree [Diplom (univ.) or Master] in a field of study with a specialisation in high performance computing or parallel programming (e.g. computer science, computational engineering, mathematics, physics)
- Programming skills, preferably C/C++

Furthermore desired:

- Further knowledge in parallel programming using MPI/OpenMP/CUDA is desirable
- Interest in and excellent skills for highly interdisciplinary collaborations
- Interest in producing scientific publications in renowned scientific journals and pre-senting your work at renowned conferences
- Initiative, teamwork and communication skills

The HPC group has various HPC systems and access to a PetaFLOP-enabled HPC cluster, providing excellent conditions for hardware-related and algorithmic performance investigations and related research. The group is further involved in a wide range of HPC activities and projects, providing an exciting research environment and the opportunity to explore future-oriented technologies.

The official posting of the job description including final application deadline is available here:

<https://www.hsu-hh.de/karriere/wp-content/uploads/sites/658/2023/01/Reference-Number-MB-4922.pdf>

To apply, send the usual documents to personaldezernat@hsu-hh.de, mentioning the reference number MB-4922.

In case of questions, feel free to contact Philipp Neumann, philipp.neumann@hsu-hh.de.