At Helmut Schmidt University/University of the Federal Armed Forces Hamburg (HSU/UniBw H), Faculty of Mechanical Engineering, Chair for High Performance Computing (Univ.-Prof. Dr. rer. nat. habil. Philipp Neumann), two positions are available from the next possible date for a

Research Assistant

(salary group 13 TVöD; 39 hours per week)

for a limited period until 31.12.2024.

The project in question is "HPC.Bw: Competence platform for software efficiency and high-performance computing" as part of the Centre for Digitisation and Technology Research (dtec.bw).

Responsibilities:

- Research tasks within the framework of performance engineering (optimal algorithms, code optimisation and parallelisation) for various problems, e.g. from the fields of engineering and logistics
- Investigation of innovative programming approaches to program cutting-edge HPC hardware
- Teaching of basically 3.0 trimester hours per week, e.g. as part of the support for the Bachelor's and Master's degree programmes and the creation of tutorials on HPC best practices and the use of HPC resources
- Possibility of further academic qualification (e.g. doctorate or habilitation)
- Carrying out general administrative work as well as academic activities in academic self-administration

Qualification requirements:

- A university degree [Diplom (univ.) or Master] in a field of study with a specialization in high-performance computing or parallel programming (e.g. computer science, computational engineering, mathematics)
- Programming skills in relevant programming languages, especially C/C++ and C# as well as Fortran and Python, if applicable
- Proactivity, teamwork and communication skills
- Very good knowledge of English and German, both written and spoken

Furthermore desired:

- Knowledge in the parallelisation of programs using MPI/OpenMP/CUDA
- Knowledge in the field of combinatorial optimisation
• Interest in and excellent skills for highly interdisciplinary collaborations
• Interest in writing scientific publications for renowned scientific journals as well as presenting your work at renowned conferences

We offer you:

• Innovative HPC computing systems as well as HPC cluster access to work on research tasks
• Excellent research conditions
• An interesting field of activity and the opportunity to familiarise yourself with future-oriented technologies

If you have any questions, please contact Univ.-Prof. Dr. rer. nat. habil. Neumann, Tel.: 040/6541-2723 or by e-mail: philipp.neumann@hsu-hh.de.

The employment is based on the collective agreement for the public service (TVöD) in conjunction with the Wissenschaftszeitvertragsgesetz (WissZeitVG). In principle, the activities correspond to pay group 13 (E13). However, the actual classification depends on the fulfilment of the relevant collective agreement and personal requirements.

Part-time employment is possible.

Each post is equally open to persons of any gender. Women will be given preferential consideration in areas where they are underrepresented, if they demonstrate the same eligibility, qualifications and professional performance, unless reasons relating to the person of a co-applicant prevail. The application of disabled persons is encouraged. Severely disabled persons and persons of equal status will be given preferential consideration if they are equally qualified. Only a minimum level of physical aptitude is required for them. Individual disability-specific limitations will only prevent preferential consideration in the case of absolutely necessary ability patterns for the post to be filled.

More information about the university and the professorship can be found at:

www.hsu-hh.de and www.hsu-hh.de/hpc/.

Please send your application with the usual documents exclusively in electronic form (pdf file), quoting the reference number MB-5721, by 02.12.2021 to:

personaldezernat@hsu-hh.de

Note:
Information on data protection in the application process can be found on the website www.hsu-hh.de under the heading "Universität - Karriere - Datenschutzinformationen".

If you do not provide the reference number, your application may not be considered and will be deleted immediately for data protection reasons.