The High Performance Computing Center Stuttgart (HLRS) is the first national supercomputing center in Germany. Hosting one of the fastest supercomputing systems worldwide, it offers services and support in the area of High Performance Computing to users from academia, research and industry. Additionally, HLRS is one of the world leading institutions in the research fields of supercomputing, grids and cloud computing and participates in the cluster of excellence on simulation technologies. HLRS as a central unit of Stuttgart University is heavily active in research on new technologies and solutions in national and international projects, participating in a high number of funded research activities.

For the development of new solutions and support services on the interface between leading edge scientific applications from the CFD and global system science field and high performance computing systems, especially for the brand new HPC system Hawk, we offer several positions in a national project as

**Performance Engineer (m/f/d) for Scientific Software (TV-L 13)**

HLRS_07_2020

The contracts are restricted according to German law (WissZeitVG) and are limited to the project duration.

The possibility to work on a PhD thesis in this position is given.

**Your responsibilities:**

You will work in an international team on analyzing and improving efficiency of applications (i.e. making better use of hardware resources) on leading High Performance Computing systems. In order to do so, you will closely cooperate with the application owners and users from the scientific and industrial area. You will bring in your knowledge and expertise in both, conceptual work as well as practical implementations, targeting innovative solutions.

**Candidates need to have:**

- A university degree, ideally in the area of engineering with a focus on Computational Fluid Dynamics (CFD) or global system sciences.
- Strong focus on creativity, proactivity, positive solutions and continuous improvement
- Good programming skills in at least one higher-order programming language
- Conceptual thinking
- Good language skills in English

**Ideal candidates additionally have:**

- Initial experience in Parallel Programming and HPC systems
- Experience in the usage of profiling tools and application benchmarking
- Knowledge in one of the optimization target fields: algorithmic efficiency, parallel efficiency, sequential efficiency or I/O efficiency
- Strong command in Linux-based environments
- At least basic knowledge of the German language

**We offer:**

- A pleasant working atmosphere in a highly motivated team
- Opportunities of courses and trainings and training on the job
- A wide range of sports activities at the University of Stuttgart
- The social benefits of the public service
- Salary and the working conditions based on a collective labor agreement (TV-L)

If you have any questions regarding the research activities, please contact contact_puma@hlrs.de.

**Your application:**

You can apply to the position with a comprehensive application to the following addresses until 19.04.2020.

Höchstleistungsrechenzentrum Stuttgart, c/o Agnes Lampke, Nobelstraße 19, 70569 Stuttgart or with an E-mail with the number of the position desired in the subject line and only PDF files as attachments to: bewerbungen@hlrs.de

An electronic application is preferred.

In an effort to strengthen the presence of female workers in the scientific areas, the University of Stuttgart invites women to apply for these job opening. Full-time positions may be turned into part-time positions. Disabled people will have priority as long as equally qualified. The recruitment process will be made through the central administration department (Rektoramt).

Information on the handling of applicant data in accordance with Art. 13 DS-GVO can be found at: www.uni-stuttgart.de/datenschutz/bewerbung/.

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**Vergütung**

- **TV-L 13**

**Art der Beschäftigung**

- nach Vereinbarung

**Zeitraum der Beschäftigung**

- nach Vereinbarung

**Bewerbungsfristende**

- Sonntag, 19. April 2020 - 23:59

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**Kontakt**

**Vorname**

- Agnes

**Name**

- Lampke

**Telefon**

- +49 711 68587210

**E-Mail**

- bewerbungen@hlrs.de

**Jetzt bewerben**

- bewerbungen@hlrs.de

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**Link zu dieser Stellenanzeige:** https://www.stellenwerk-stuttgart.de/jobboerse/wissenschaftl-stellen-performance-engineer-mfd-scientific-software-s-2020-03-26-307183

**Bitte beziehen Sie sich in Ihrer Bewerbung auf:** https://www.stellenwerk-stuttgart.de/