



You are looking for an employer you can count on? Join us!

We are looking for an:

### **Software Engineer (f/m/d) for Astrophysical Applications in High Performance Computing**

to complement the AstroLab@LRZ application support.

#### ***Your Role and Responsibilities:***

- Optimize and improve key astrophysical applications for LRZ's current and upcoming leadership-class HPC systems.
- Participate in application development and porting for prospective Exascale systems with accelerated node architectures.
- Keep in touch with our power users and the astrophysical community and help them to track and solve their HPC problems.
- Maintain the software stack for astrophysical applications and provide user support.
- Organize and promote trainings, courses and scientific outreach activities.

#### ***Your Qualifications:***

- PhD or university (post) graduate degree, diploma, master's degree or equivalent in a scientifically oriented subject (astrophysics, computational sciences, mathematics, physics etc.).
- Experience with HPC applications in the field of astrophysics.
- Excellent programming skills in at least one higher-level programming language (C, C++, Fortran)
- Good programming skills in at least one scripting language (Python, Julia, bash, etc.).
- Experience in Parallel Programming (MPI, OpenMP) and/or accelerator programming (CUDA, OpenACC, DPC++, OpenMP)
- Knowledge of HPC environments and system software, performance analysis, performance libraries and tools.
- Good oral presentation and writing skills in German or English.
- Adequate communication skills and capacity for teamwork.

#### ***We offer:***

- Access to latest hardware and technologies in HPC.
- Work in a team with multiple scientific backgrounds and nationalities.
- Work together with the leading scientist in computational astrophysics in Germany.
- Training on the job for new software and programming models

<b>Area</b>	HPC Engineer for Computational Astrophysics
<b>Working time</b>	full time (40,1 hrs) / part-time possible flexible working model with electronic time recording
<b>Term of the contract</b>	Limited until end of 2025, a further employment is intended
<b>Remuneration</b>	possible until E 13, see <a href="#">Entgelttabelle TV-L</a>
<b>Annual leave / compensatory time off</b>	30 days (24.12. + 31.12. additionally day off) Overtime is compensated by additional time off
<b>Further trainings</b>	Individual support for in-service training and further education
<b>Benefits</b>	e.g. home office option, public transport discount (job ticket), bus and subway (U6) on the doorstep, free parking, pension plan of the Versorgungsanstalt des Bundes und der Länder (VBL), state-of-the-art work equipment

### ***What can you find with us?***

Are you looking for a multifaceted and intellectually stimulating position in a dynamic, cooperative and innovative work environment? Then LRZ is the place to be for you! Here at LRZ a collegial, appreciative work environment meets an international crowd of experts who work together to advance IT services for ground-breaking research. We offer flexible work schemes for an optimal work-life balance. Our staff values their creative leeway. As an institute of the Bavarian Academy of Sciences and Humanities we offer all the benefits of public service. And of course, no wishes remain unfulfilled at the LRZ in terms of technical equipment. We actively promote diversity and welcome applications from talented individuals, regardless of cultural background, nationality, ethnicity, gender and sexual identity, physical abilities, religion and age. We give priority to applications from people with disabilities who are equally qualified (SGB IX).

### ***The LRZ in a nutshell:***

Since 1962, Bavarian universities and research institutions have relied on the IT expertise of the Leibniz Supercomputing Centre of the Bavarian Academy of Sciences and Humanities. When it comes to the digitisation of science, we are traditionally ahead of the game.

## **You can count on us! Can we count on you?**

We are looking forward to receiving your complete application documents (including cover letter, CV and certificates) in a single PDF file via e-mail (other file types are not accepted) by latest **07.08.2022**:

E-Mail: [jobs@lrz.de](mailto:jobs@lrz.de)  
Subject: **Astrophysics (2022/41)**

Are you unsure whether the job suits you or you suit us? Or do you still have questions about this position? Our colleagues will be happy to answer all your questions at the above e-mail address.

This job does not fit? Then take a look at <https://www.lrz.de/wir/stellen/> or send us an unsolicited application!

[Here](#) you will find information about the collection of personal data during the application process.