



As part of the DFG-funded project „SOS: Serverless-Scientific-Computing und -Engineering für Erdbeobachtungs- und Nachhaltigkeitsforschung“, LRZ supports the setup, evaluation and optimization of a development and execution environment for earth observation (EO) processing workflows. The SOS project is carried out in collaboration with the Chair of Software Engineering at Julius-Maximilians-Universität Würzburg (JMU), the Chair of Communication Networks at JMU, the Department of Remote Sensing at JMU, the Max-Planck Institute of Animal Behavior (MPIAB) and the German Remote Sensing Data Center at DLR. For this purpose, LRZ is seeking a:

### **IT Research Associate (f/m/d)**

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

- Collaborate with university researchers in developing abstraction layers, interoperable interfaces, and specialized services to seamlessly integrate cloud-native and traditional HPC environments with focus on:
  - Optimization of Task Deployment and Resource Provisioning
  - Energy-efficient execution strategies, autoscaling, and elastic provisioning to enhance overall system efficiency
  - Secure user and data management
- Identify and implement monitoring services optimized for serverless computing environments

#### ***Basic Qualifications:***

- PhD or Master's degree in computer science or related fields
- Conceptual understanding of the scientific programming landscape
- Experience with deployment and execution of applications on cloud and high-performance systems (Slurm, Docker, Kubernetes)
- Comfortable working with Linux environment and the command line interface
- Experience with a programming language such as C, C++, Rust or Go
- Strong understanding of network architectures, data transfer protocols and distributed file systems
- Ability to present results clearly and understandably in reports, diagrams, etc.
- Fluent spoken and written German and English (C1 level)

#### ***Preferred Qualifications:***

- Proven track record of publishing and presenting results at scientific conferences and meetings
- Interest in mentoring student research projects and in teaching/education
- Good understanding of typical computational kernels in HPC or data analytics applications
- Experience designing secure and scalable interfaces

<b>Area</b>	Research
<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>	initially until 31.12.2028, a further employment is intended
<b>Remuneration</b>	up to 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 Science 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 share experiences, constantly review and improve our processes, and are proud that our service-quality and data-security are regularly certified and rated highly. 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 digital transformation of science, we are traditionally ahead of the game.

We are looking forward to receiving your complete application documents (including cover letter, CV and certificates) in a PDF file (other file types are not accepted) by latest **24.03.2025**.

Subject: **SOS (2025/13)**

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.

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.



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