



# Thüringer Landessternwarte Tautenburg

## Research Associate position in PUNCH4NFDI

The **Thüringer Landessternwarte** (TLS) is an observatory of the state of Thuringia located near the university city Jena. The TLS performs research in various fields, ranging from the search for extrasolar planets to the investigation of the radio emission in clusters of galaxies. The TLS operates the 2m Alfred Jensch telescope, participates in many instrumentation projects and operates an international station of the Low Frequency Array (LOFAR).

The TLS invites applications for a fixed-term position for 3 years, with a possibility of prolongation, as

### **Research Associate (100%) specialised in Information Technology (IT)**

The position is offered in the framework of the PUNCH4NFDI consortium, which is part of the German National Research Data Infrastructure (NFDI). It aims for designing and developing tools, methods and a platform for collaborative open science in the fields of particle physics, astro-particle physics, astronomy and astrophysics, and nuclear and hadron physics. At TLS, we mainly participate in Task Area 2 (TA2) "Data management". The goal of TA2 is to adapt and develop tools for the integration of heterogeneous storage and computing resources to allow the PUNCH community an efficient usage of the available infrastructure. Moreover, the TLS is significantly involved in the analysis of data of the LOFAR Two-metre Sky Survey (LoTSS) and is member of the German Long Wavelength Consortium. The analysis of data from the LoTSS survey and other pathfinders for the Square Kilometre Array may serve as commissioning work flows to the methods and tools developed by PUNCH4NFDI.

We offer:

- A diverse and challenging assignment working at the forefront of technology,
- Work in a stimulating environment with highly motivated teams and excellent opportunities to network,
- The possibility to pursue own research,
- Employee-friendly workplace and working hours, and a
- Remuneration according to salary group TV-L 13.

Your tasks will be:

- Contributing to the conceptual development and to the integration of the heterogeneous compute resources ("Compute4PUNCH"),
- Testing and commissioning of the methods and tools developed in TA2,
- Actively interacting with working groups in other PUNCH4NFDI task areas, to define the necessary interfaces, and helping
- Setting up a container registry.

Your profile:

- Master of Science in physics, computer science or a similar field,
- Very good knowledge of Linux operating system and IP networking,
- Familiarity with modern programming languages and software development tools,
- Experience with computational techniques used in experimental data analyses or theoretical calculations related to any of the PUNCH4NFDI communities,
- Experience in radio astronomy would be beneficial,
- Experience in the usage or operation of distributed analysis or simulation infrastructures, e.g. HPC or HTC computing, would be of advantage, and an
- Ability to cooperate and work in teams distributed over multiple sites and to contribute to the open source software development.

The TLS aims to increase the number of women in research and teaching and explicitly encourages women to apply. Handicapped persons will receive preference over equally qualified non-disabled applicants.

The position is intended to start by September 1, 2022, however, a later start date is possible.

Applicants should send a CV, including copies of relevant certificates, a list of publications and other relevant documents and should state the preferred start date. They are also requested to indicate three persons willing to send a reference letter upon request. All documents should be sent electronically to the email given below.

Applications which arrive by Wednesday, August 05, 2022, will receive full consideration.

Contact:

Dr. Matthias Hoeft  
Thüringer Landessternwarte  
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