



# Max-Planck-Institut für Radioastronomie

The **Max Planck Institute for Radio Astronomy (MPIfR)** is a research institute of the Max Planck Society for the Advancement of Science. As an innovative research institution with numerous collaborations abroad, we conduct basic research in the field of astronomy. In Bad Münstereifel-Effelsberg we operate one of the largest fully steerable radio telescopes on earth. Furthermore, we maintain astronomical receiving systems at locations all over the world.

For the project "VAMPIRA" (Administration, Evaluation and Modelling of Provenance Information from Computationally Intensive Scientific Workflows) we are looking for a

## **Project scientist in the area of "Computation and Astronomical Applications" at junior postdoctoral or doctoral level**

The project aims to design/ develop an automated analytic system that captures data provenance and thus enables reproducible workflows for data intensive analyses in radio astronomy and related fields. VAMPIRA is carried out in close cooperation with the Institute for Data Sciences of the German Aerospace Center (DLR) in Jena.

### **Your tasks:**

- You will be responsible for the development of software and methods and will use astronomical pipelines in the time and image domain to test the VAMPIRA software.
- You are expected to introduce the project to the astronomical community and related scientific fields and to establish new collaborations.
- There is also the possibility to develop your own research program. You will work with members of the MPIfR's "Fundamental Physics in Radio Astronomy" and "Digital Signal Processing" groups and with members of the "Data Management Technologies" group at the Institute of Data Sciences.

### **We expect:**

- A degree in computer science, astronomy, physics or a closely related subject;
- Knowledge of at least one object-oriented programming language (e.g. Python, C++)
- Ability to work in a team;
- Very good organizational and communication skills;
- Very good English / German language skills, both spoken and written; documentation and reporting is in German and English. Complete mastery of one of these languages is considered mandatory, mastery of both is considered an asset;
- Willingness to undertake regular business trips at home and abroad.

**We offer:**

- **The full-time position is available immediately.** The position is limited to two years with the possibility of a one-year extension;
- Funding for travel and equipment is available;
- Performance-related remuneration according to the collective agreement for the public service (TVöD Bund) with corresponding social benefits;
- Training and further education opportunities;
- Flexible working hours;
- Family service & childcare facilities on the company premises;
- A discounted public transport ticket.

The Max-Planck Society is an equal opportunity employer and strives to employ all genders equally, as well as to employ more individuals with disabilities. Therefore, we encourage all applicants, independent of their nationality, gender or disability, to apply for this position.

We look forward to receiving your complete application (including up to three reference letters) to the address:

[https://s-lotus.gwdg.de/mpg/mbra/perso/mpifr\\_bonn\\_sci\\_005.nsf/application](https://s-lotus.gwdg.de/mpg/mbra/perso/mpifr_bonn_sci_005.nsf/application)

The review starts 18<sup>th</sup> of March until the position is filled.

Further information about the MPIfR can be found at <https://www.mpifr-bonn.mpg.de>

For further questions, please contact Dr. Hans-Rainer Klöckner via Email: [hrk@mpifr-bonn.mpg.de](mailto:hrk@mpifr-bonn.mpg.de)

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