

STELLENAUSSCHREIBUNG



MAX-PLANCK-INSTITUT FÜR RADIOASTRONOMIE

The Max-Planck-Institut für Radioastronomie (MPIfR) in Bonn (Germany) is one of 80 dedicated research institutes of the Max-Planck-Gesellschaft zur Förderung der Wissenschaften e. V. (MPG). The institute operates world-class facilities in order to do basic research in the field of astronomy, including the 100-m Effelsberg cm-wave telescope or the APEX mm/sub-mm-wave telescope in the Atacama desert in Chile. The 100-m telescope is the second-largest fully steerable telescope in the world and enables highly sensitive observations at frequencies up to 90 GHz. In a programme to further enhance the spectroscopy capabilities of the telescope, we are looking for a post-doctoral researcher as a

Support Scientist (PhD)

to be located at the 100-m telescope at Effelsberg. The successful candidate will work in a user support team in close collaboration with colleagues on site and scientists at the MPIfR in Bonn. With a focus on instrumentation relevant for spectroscopy, the candidate's use of the telescope for her/his own research is strongly encouraged and expected. The position will be available for two years with a potential extension.

Your Tasks

- Support of spectroscopy observations at the 100-m telescope.
- Communication and collaboration with internal and external spectroscopy observers.
- Improvement of the calibration procedures; establishment of an improved data base for calibration standards.
- Optimization and documentation of data processing pipelines for spectroscopic observations.
- Characterization of telescope performance (incl. comparison and improvement of spectroscopic observations from the prime and secondary focus).
- Participation in the planning and commissioning of new instruments.

The relative proportion of time spent on these various activities will be time variable but we expect that 1/3 of the time will be used for the candidate's own research.

Your Key Skills

Equipped with a PhD in (radio) astronomy or astrophysics and the ability to work successfully in a highly motivated team of scientists and engineers, the successful candidate will be able to demonstrate comprehensive knowledge and experience in most of the following areas:

- Radio-astronomical spectroscopy observations and data analysis
- Radio-astronomical instrumentation
- Calibration procedures
- Single-dish astronomy
- Software packages (CLASS, GILDAS, CASA)
- Good scientific track record
- Project-oriented work experience

We Offer

- A very interesting, multi-faceted work in a highly motivated team and in a dynamic scientific environment at the forefront of radio astronomical research.
- Opportunity to conduct own scientific work using the 100-m telescope.
- Payment and social benefit based on regulations of the German tariffs for public employees (TVöD) depending on your qualification and experience.

The MPG wants to raise the proportion of women in areas where they are under-represented. Women are therefore especially encouraged to apply. The MPG also wishes to employ more severely challenged persons, whose applications are also encouraged. Candidates should send their application including all usual documents quoting Code No **1002/2010** to our human resources department.

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