



# Leibniz-Institut für Astrophysik Potsdam

## Host Institute

The Leibniz Institute for Astrophysics Potsdam (AIP) has about 200 employees and is dedicated to astrophysical questions ranging from the exploration of our Sun to the evolution of the cosmos. Key aspects are cosmic magnetic fields and extragalactic astrophysics, supported by the development of research technology in the fields of spectroscopy, robotic telescopes, and e-science. It is located in the beautiful Potsdam/Babelsberg area, at the south-western border of the Berlin metropolitan area. The AIP continues the tradition of the Astrophysical Observatory Potsdam and the Berlin Observatory (founded 1700). Potsdam is also the home of the Albert-Einstein Institute for Gravitational Physics, the Physics and Astronomy Department at the University of Potsdam, and several other research institutions. The AIP offers an open-minded and cooperative working atmosphere in a modern and very well equipped working environment.

The department of Magnetohydrodynamics and Turbulence searches a

## **postdoctoral researcher (m/f/d) for theoretical MHD in stellar physics.**

## Position and requirements

Working in the field of magnetohydrodynamics, the successful applicant will design, develop and conduct numerical simulations in stellar physics. The central research aims are the determination of instability limits of magnetic fields in stellar interiors (including their nonlinear evolution) as well as simulations of the self-generation of magnetic fields (the so-called dynamo). The computational methods may involve fully nonlinear finite-difference/finite-volume codes with high resolution, on the one hand, and spectral codes (in spherical geometry) for linear stability studies, on the other hand.

Applicants should hold a PhD degree in astrophysics or physics at the time of starting the position. A strong background in computational physics/numerical simulations as well as good English skills (written and spoken) are essential. Experience with topics in stellar and/or solar physics will be advantageous. The salary will be based on the German public service collective agreement at the pay grade TV-L E13. Adequate funding for work-related travel is available. Employer contributions to medical and dental insurance, parental leave, and retirement benefits are included. The nominal starting date is 1 March 2023, but individual arrangements will be possible.

The position has a duration of 2 years and 6 months.

## Application

To apply, please register at the AIP recruitment portal

[jobs.aip.de/rec007](https://jobs.aip.de/rec007)

and follow the instructions to upload the following two documents, all in PDF format: (i) a one-page cover letter motivating your application and (ii) a Curriculum Vitae with a list of publications and a two-page research summary of your past achievements with a career development statement. Therein,

please also provide contact information for up to three individuals willing to provide reference letters upon request. Note that we will request such letters only for a subset of applicants after an initial selection step.

Applications received until 30 November 2022 will receive full consideration. Since equal opportunities are an integral part of the personnel and organisational development at the AIP, applications from scientists of all genders are equally welcome. People with disabilities will be given preferential consideration if they are equally qualified and skilled. Application documents will be kept for at least three months after completion of the appointment process. The documents will be made available to a selection committee and to other committees and officers to be involved.

All institute members and guests agree to comply with the Code of Conduct. The AIP promotes gender equality and invites all institute members to engage by promoting equity and diversity.

