



The Leibniz Institute for Astrophysics Potsdam (AIP) continues the tradition of the Astrophysical Observatory Potsdam and the Berlin Observatory. It is located in the beautiful Potsdam/Babelsberg area, at the South-western border of the Berlin metropolitan area. The innovation center innoFSPEC headquartered at AIP is a joint project between the University of Potsdam and AIP. While AIP has a strong record in the development of optical instrumentation for state-of-the-art international observatories (e.g. ESO, LBT, HET, CAHA), innoFSPEC Potsdam provides a unique opportunity for research in fundamental astronomy & astrophysics utilizing instruments such as MUSE, PMAS etc., as well as, on key enabling technologies, in the field of Astrophotonic instrumentation for modern telescopes and facilities, e.g. the ELT, VLT, CAHA, etc. Under the BMBF funded project Astrophotonics, innoFSPEC invites applications for an

Astrophotonics Scientist (m/f/d)

to undertake development of Photonic Lanterns with OH-emission filters and preparation for applications in astronomy. The position is until the end of the BMBF project in September 2022. The framework of the research will provide experience in developing complex filter models and designs using Python and RSoft.

Your Tasks

- Support the simulation and modelling of complex phase mask and filter designs.
- Support the fabrication and development of photonic lanterns.
- Participating in the preparation of science cases and on-sky tests of future prototypes
- Contribute to peer-reviewed publications, patents, and conference papers.

Your Profile

- Master's in astronomy, or astrophysics, or physics with academic experience in astronomy
- Experience with simulation of phase masks
- Knowledge of at least one scientific programming language: Python, MATLAB, or IDL.
- Excellent interpersonal and communication skill and ability to work as a member of a team.
- Working proficiency in the English language. Basic German skills will be an advantage.

The AIP is an equal opportunity employer and strives to maintain a diverse, inclusive work environment and culture. AIP particularly encourages applications from women and those from diverse backgrounds. Preference will also be given to people with disabilities with equal competence. Salary and social benefits are calculated based on qualifications and the German public service scale TV-L (E13). Employer contributions to medical, parental leave, and retirement benefits are included. To apply please send your CV, publication list, and copies of academic degrees to: bewerbung-2022-03@aip.de

Contact

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