



Postdoctoral Position in Astrophotonics innoFSPEC at AIP

Overview

The innovation centre innoFSPEC Potsdam is a joint project between the University of Potsdam and the Leibniz-Institute for Astrophysics Potsdam (AIP). Its headquarter is located on the campus of AIP in Potsdam Babelsberg. 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. The Astrophotonics group solicits applications for postdoctoral position to undertake research and development of integrated photonic systems utilizing AWGs, photonics lanterns, and adaptive optics, leading to first-light on-sky demonstrations. The postdoctoral candidate is also expected to interact with other research groups at AIP working on fundamental astronomy and astrophysics.

Your Tasks

- Development of integrated photonic systems for on-sky demonstration
- Simulate, fabricate, and characterize integrated photonic devices.
- Support the research activities of PhD students and contribute to peer-reviewed publications, patents, and conference papers.

Your Profile

- PhD in astronomy, astrophysics, instrumentation, or in related fields.
- Experience with instrumentation in MIR and NIR astronomy, specifically spectroscopy
- A track record of scientific publications in peer-reviewed journals
- Excellent interpersonal and communication skill and ability to work as a member of a team.
- Competent to submit proposals to funding agencies e.g., DFG, BMBF, H2020, ERC.
- Excellent proficiency in the English language. Basic German skills will be an advantage.
- Knowledge of Python, LabView, MATLAB, RSoft, will be an added advantage.

Conditions

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. The appointment could start immediately after the recruitment process is completed and until August 2021. Salary and social benefits are calculated based on qualifications and the German public service scale TV-L (upto & including E13). Employer contributions to medical, parental leave, and retirement benefits are included. To apply please send your CV, publication list, copies of academic degrees, and a brief research plan to: bewerbung_2020-04@aip.de. Review of applications will begin immediately & continued until the position is filled.

Contact

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