



Scientist Position (m/f/d) for WhisperCal Project

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 on key enabling technologies, specifically in the field of Astrophotonics for instrumentation at modern telescopes, e.g. the ELT. Furthermore, innoFSPEC is performing interdisciplinary research, linking different disciplines such as astronomy and physical chemistry. In the latter context, innoFSPEC invites applications for a scientist position for WhisperCal, a joint project with an industrial partner. WhisperCal aspires to develop a novel technique of wavelength calibration for spectroscopy based on Whispering Gallery Mode technologies.

Your Tasks

- Numerical modeling of whispering gallery mode spectra.
- Defining requirements and specifications of a novel instrument.
- Laboratory experiments of test devices.
- Development and test of a prototype.

Your Profile

- A master degree in physics, chemistry, or physical chemistry
- Experience with instrumentation, specifically optical spectroscopy.
- Hands-on experience with numerical modeling, data reduction, and analysis
- Good knowledge and programming experience with PYTHON, IDL, Matlab, or similar.
- Excellent interpersonal and communication skill and ability to work as a member of a team

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. The appointment would be until December 2023. Salary and social benefits are calculated based on the German public service scale TV-L and depends on qualification. 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_2021-05@aip.de
Review of applications will begin February 8th, 2021, and continue until the position is filled.

Contact

Prof. Dr. Martin M. Roth
Leibniz-Institut für Astrophysik Potsdam (AIP) – innoFSPEC Potsdam
An der Sternwarte 16, D-14482 Potsdam, Germany
mmroth@aip.de

www.innofspec.de