



Scientist/Engineer Position for NIR-DETECT 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 telescope facilities (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 future instruments such as MOSAIC for the ELT. In order to enhance the capabilities for lab tests and, in particular, on-sky validation of components like integrated photonic spectrographs, OH suppression FBGs, interferometric beam combiners, etc., innoFSPEC is developing a NIR camera based on a 2Kx2K HgCdTe array. innoFSPEC Potsdam invites applications for a scientist/engineer position dedicated to this project.

Your Tasks

- Design, development, and test of NIR camera utilizing HgCdTe array.
- Application of NIR camera to laboratory and on-sky tests of astrophotonics components

Your Profile

- A degree in physics, astronomy, or engineering, preferentially PhD
- Experience in instrumentation for infrared astronomy, or similar areas of research
- Hands-on experience with control and operation of HgCdTe-Arrays (e.g. H2RG)
- Hands-on experience with cryogenic and vacuum systems for NIR instrumentation
- Knowledge of detector electronics and controllers
- Experience with mechanical engineering and machine shop processes. CAD is an asset.
- Excellent interpersonal and communication skills 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 for 18 months. 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, copies of academic degrees, and 3 references to: bewerbung_2019-06@aip.de Review of applications will begin March 15, 2019, and continue until the position is filled.

Contact

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