



Scientist/Engineer Position (m/f/d) for PlasMark 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 postdoctoral position for PlasMark, a joint project with plasmatis and HIKE Greifswald. PlasMark aspires to enable the detection of plastic microparticles in biological tissue, using imaging Raman spectroscopy as a technology transfer from astronomy.

Your Tasks

- Exploration of Raman spectroscopy for detection of plastic microparticles.
- Multi-channel Raman spectroscopy experiments on plastic microparticles.
- Use of integral field spectroscopy data reduction software for data analysis (P3D).
- Use of P3D to reduce and analyze integral field Raman spectra to remove fluorescence.

Your Profile

- A degree in physics, chemistry, or physical chemistry, preferentially PhD
- Experience with instrumentation, specifically imaging Raman spectroscopy
- Hands-on experience with data reduction and analysis
- Good knowledge and programming experience with PYTHON, IDL, Matlab, etc.
- 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 2022. 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_2020-30@aip.de Review of applications will begin January 11th, 2020, and continue until the position is filled.

Contact

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