

## **Ph.D. position in Astrophotonics**

### **Leibniz-Institut für Astrophysik Potsdam (AIP) - innoFSPEC**

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Astrophotonics is a rapidly maturing field that applies frontier physical, optical, and photonic technologies to improve the power and efficiency of modern astronomical instruments. The AIP is offering a PhD position in the field of Astrophotonics for the innoFSPEC innovation centre.

The successful candidate will contribute to the development of a facility for writing Fibre-Bragg-Gratings (FBG) which are extremely complex filters imprinted in fibres. Such novel optical components are required for the suppression of the infrared night sky in astronomy and will play a fundamental role in the instrumentation of the next generation of large telescopes, e.g. the European Extremely Large Telescope (E-ELT). A team of experienced experimental and instrument scientists and managers will provide support for the PhD student. The work will be carried out under the supervision of Dr. Roger Haynes. The candidate will also interact closely with researchers at collaborating institutions, research partners, and also the scientists at innoFSPEC in order to explore the potential of FBG in fibre-coupled spectroscopy, sensing and related fields.

Applicants must hold a master (diploma) in physics, optics, photonics, or related scientific disciplines, preferably with solid background in experimental laser physics, fibre technologies and Labview-based experiment control and automation.

innoFSPEC Potsdam is an interdisciplinary innovation centre, operated by AIP and the University of Potsdam, with its headquarter on the campus of AIP. The AIP is located in the beautiful area of Potsdam-Babelsberg, at the south-western border of Berlin. About 100 scientists work on a variety of astrophysical topics. The institute has a strong record in the development of instrumentation for "state of the art" international telescope facilities, such as the European Southern Observatory, Large Binocular Telescope, Hobby Eberly Telescope, and Calar Alto Observatory. The mission also includes major contributions to the next generation E-ELT instrumentation.

The salary is based on the German public service scale (TV-L). The AIP is an equal opportunity employer and as such, considers individuals for employment to their skills, abilities, and experience. Preference will be given to handicapped persons with equal competence.

To apply, please send a curriculum vitae including statements on education, skills, and experience to the given email address. Applicants should arrange for two to three letters of recommendation to be sent to the same address. Review of applications will begin immediately and continue until the position is filled.

Email Submission Address: [rhaynes@aip.de](mailto:rhaynes@aip.de)

For further information contact: Dr. Roger Haynes

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See also: innoFSPEC: <http://www.innofspec.de> and AIP: <http://www.aip.de>