



The Leibniz Institute for Astrophysics Potsdam (AIP) is a publicly funded German research institute with a long history, including the Berlin Observatory and the Astrophysical Observatory Potsdam. The latter was the world's first observatory to emphasize explicitly the research area of astrophysics. Today, the AIP has an international reputation as a competence centre for the development of research technology in the fields of spectroscopy, robotic telescopes and E-Science. About 130 scientists work on a variety of astrophysical topics such as magnetic fields, solar and stellar physics, stellar and galactic evolution and cosmology. As a member of staff of the AIP, you will have the advantage of living very close to the Berlin metropolitan area as well as enjoying the calm, family-friendly area of Potsdam-Babelsberg for your work place and residence.

The Leibniz-Institut für Astrophysik Potsdam (AIP) invites applications for the position of

## **Project Manager (m/f/d)**

for developing and operating analysis software and ground support hardware for AIP's contribution to ESA's space mission *Solar Orbiter* and hence helping the solar science community to study the Sun's active processes.

### **Overview**

AIP has contributions to the Spectrometer/Telescope for Imaging X-rays (STIX) and Energetic Particle Detector (EPD) which are designed to observe the Sun's X-ray radiation and solar energetic particles, respectively. The spacecraft is scheduled for launch in February 2020 and will allow close-up observations of the solar corona and the near-Sun interplanetary space.

### **Your main tasks will be:**

- Join and interact with the international STIX and EPD teams and coordinate AIP activities with them
- Plan, Design, Implement, Test, Operate, Maintain and Document the analysis software for STIX Aspect System (SAS) for the programming language: Interactive Data Language (IDL)
- Operate the SAS during all post-launch mission phases
- Establish, maintain and operate an SAS Mock-up in one of AIP's optical labs
- Write reports, documentation, protocols, and future *Solar Orbiter* related funding grants
- Assist in compensating the effect of thermal expansion of STIX components on the X-ray image quality
- Coordinate AIP activities with funding agency (Deutsches Zentrum für Luft- und Raumfahrt e. V., DLR)
- Develop and maintain a software to translate STIX raw data to useful science data
- Develop and maintain a software to allow a joint analysis of EPD and STIX data (especially with respect to energetic electrons)

### **Your profile must include:**

- An academic degree (e. g. Master and / or PhD) in physics/engineering/computer science or equivalent
- Experience with Solar Physics and / or Project Management is a strong asset
- Significant expertise in IDL, further expertise in python and other IT languages is a strong asset
- Significant experience procuring, testing and verifying instrumental systems

- Excellent interpersonal and communication skills with the ability to collaborate efficiently and effectively with administrative, technical and scientific staff
- Demonstrated ability to work as a member of multi-disciplinary (often international) teams
- Fluency in spoken and written English and German proficiency is highly desirable
- Experience with software development is highly desirable
- Experience working in optical labs is desirable

### **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. Preference will also be given to people with disabilities with equal competence. The appointment could be either part or full time and could start immediately after the recruitment process is completed. The appointment would be initially until December 31<sup>st</sup>, 2022; prolongation is possible and intended based on available funding during the whole Solar Orbiter mission and individual performance. Salary and social benefits are calculated based on the German public service scale TV-L and commensurate with qualifications and experience in relation to the position. Employer contributions to medical, parental leave, and retirement benefits are included.

To apply, please send your Curriculum Vitae and copies of academic degrees, certificates, a minimum of two letters of reference and any supporting documents (including publication list) to [bewerbung\\_2019-12@aip.de](mailto:bewerbung_2019-12@aip.de). Complete applications received by June 15<sup>th</sup>, 2019 will receive full consideration.

### **Contact:**

apl. Prof. Dr. Gottfried Mann  
Head of the Section Physics of the Sun  
Leibniz-Institut für Astrophysik Potsdam (AIP)  
An der Sternwarte 16  
14482 Potsdam  
e-mail: [GMann@aip.de](mailto:GMann@aip.de) / [www.aip.de](http://www.aip.de)