13.07.2023

Postdoc (f/m/d), full-time, fixed-term, LidarCUBE project

Job Advertisement: 2023-01

Our institute: The Leibniz Institute for Atmospheric Physics (IAP) is the Leibniz Association's research institute dedicated to the study of the mesosphere and lower thermosphere. Our research is linked to climate change and the effect of atmospheric forcing on space weather, in addition to examining unique processes in this region. Our institute works closely with the University of Rostock and contributes to its curriculum. The IAP is funded by the federal and state governments, as well as third-party contributions. It has a budget of roughly 8.5 million euros per year. Approximately 70 people are currently employed at the IAP.

Position advertised: Starting asap, a fixed-term employment (36 months, 40 h/week) for a postdoc (f/m/d) in Physics is available at IAP's Department of Optical Soundings and Sounding Rockets. The fixed-term contract is based on § 2 WissZeitVG.

What are your tasks with us:

You will conduct research in the field of experimental atmospheric physics, with a focus on optical remote sensing of the atmosphere up to the edge of space (stratosphere, mesosphere, and lower thermosphere). The advertised position is primarily linked to the technological instrument development of transportable lidar systems (**li**ght **d**etection **a**nd **r**anging). New instruments and measuring methods are being developed in close collaboration with local industrial partners within the framework of the BMBF-funded project "LidarCUBE". The project is based on our compact lidar systems (VAHCOLI - **V**ertical **A**nd **H**orizontal **CO**verage by **LI**dar). Developments in optics (spectroscopy, laser physics), building, and additive manufacturing are among the areas of activity. Software development (lidar control or data evaluation) is a critical component completing the hardware development.

What do you bring with you?

- A PhD degree in physics, mathematics, engineering, computer science, or environmental sciences, or a related discipline, is required.
- Experience with experimental working methods (e.g. spectroscopy, laser physics).
- Good programming skills and expertise, e.g., Julia, Delphi, C/C++.
- Experience in construction and 3D printing is advantageous.
- Good knowledge of the German language and confident knowledge of the English language in word and writing.
- Willingness to work independently
- Communication skills for presenting research results
- Ability to work in a team for interdisciplinary work groups.

What we offer you:

- An appealing workplace in close proximity to the Baltic Sea, with modern work equipment and participation in worldwide research.
- Employment relationship in accordance with the provisions of the Collective Agreement for the Public Service of the Federal States (TV-L).
- Remuneration with salary group 13 if personal and collective agreement requirements are met.
- Participation in the company pension scheme (VBL).
- Flexible working hours and mobile working are possible within the framework of the applicable regulations.

Equal opportunities: We pursue a family-friendly personnel policy, and strive to increase the proportion of women. Qualified women are therefore explicitly encouraged to apply. People with disabilities are given preference if they have the same qualifications.

Submission: We look forward to receiving your application with complete, informative documents (cover letter, resume, diploma with indication of final grade) preferably in one coherent pdf file, to the Human Resources Department, Mrs. Kurreck (personal@iap-kborn.de), quoting the reference **2023-01.** The advertisement remains open until a suitable person has been appointed. Unfortunately, application and travel costs cannot be covered by the state of Mecklenburg-Vorpommern. By submitting your application, you consent to the processing of your relevant personal data for the purpose of the application procedure.

Contact: Dr. Jan Froh (froh@iap-kborn.de) is the contact person for further information on technical matters of the position.