

Job Advertisement 2024-22

18.11.2024

At the Leibniz Institute of Atmospheric Physics (IAP), a full-time position (40h/week) in the Department “Modelling of Atmospheric Processes” is available as

Postdoctoral scientist, “Atmospheric global observing system simulations” (f/m/d)

The position is offered for **three years** with a start date as soon as possible. The salary is according to class EG 13 TV-L.

The Leibniz Institute of Atmospheric Physics advances the scientific knowledge of the mesosphere and lower thermosphere by developing and exploiting expertise in atmospheric physics, instrumentation, analysis and modelling to serve emerging societal needs. Temperature trends in the middle and upper atmosphere reach values down to -2 Kelvin/decade, which is an order of magnitude larger than documented trends in the troposphere and of opposite sign. As a result, the upper atmosphere is contracting, which has direct and substantial effects on the lifetime and trajectories of satellites and space debris. Moreover, there are growing needs for operational weather forecasts of the atmosphere that extend beyond heights of 100 km.

Your Tasks:

The department Modelling of Atmospheric Processes develops the upper-atmosphere version of the general circulation model ICON, i.e. UA-ICON. The successful candidate will conduct and analyze UA-ICON simulations to support the design of future satellite missions. The impacts of proposed designs of new satellites will be estimated using a type of study called an Observing System Simulation Experiment (OSSE). The OSSE will use UA-ICON to optimize the design of the new satellite systems and investigate the benefits of assimilating the data into ICON.

Your Qualifications / Experience:

- A PhD in Meteorology, Physics, Geoscience or a related field
- Experience with atmospheric modelling
- Knowledge of data assimilation

- Proficiency in English as a working language

What we offer:

- an attractive working place near the Baltic Sea
- modern equipment
- engagement in an international work environment
- participation in the company pension scheme (VBL)
- employment relationship in accordance with the provisions of the Collective Agreement for the Public Service of the Federal States (TV-L)
- flexible working hours and mobile working within the framework of the applicable regulations
- family office

Who we are: Our institute's mission is to advance the scientific understanding of the mesosphere and lower thermosphere, focusing on atmospheric physics, instrumentation, data analysis, and modeling. As part of the Leibniz Association, we prioritize research that addresses pressing societal challenges, such as climate change, while fostering an inclusive and supportive work environment. Our partnerships include collaborations with the University of Rostock and other research institutions worldwide, ensuring a strong network for academic exchange and development.

Interested?

Please send your application as one pdf with complete, informative documents, including

- motivational letter
- curriculum vitae
- diploma with indication of final grade
- copy of certificates, possibly testimonies and references

under indication of the keyword: **2024-22**

to: personal@iap-kborn.de

Applications received before **December 12** will receive full consideration, but the position will remain open until filled. 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 personal data for the purpose of the application process.

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.

Contact: For further information, please contact Prof. Dr. Claudia Stephan (CCStephan@iap-kborn.de) or inform yourself under www.iap-kborn.de.

