

Job Advertisement 2024-21

13.11.2024

At the Leibniz Institute of Atmospheric Physics (IAP), the Department “Modelling of Atmospheric Processes” offers a position as

PhD student, “Energy transfers in the atmosphere” (f/m/d)

The position is offered for **three years** with a start date no later than 07.01.2025. The salary is according to class EG 13 TV-L (75%; approx. 40 000 €/year).

The position is embedded in the DFG-CRC 181 (<https://www.trr-energytransfers.de/>) “Energy Transfers in Atmosphere and Ocean“. The CRC 181 has the goal to improve our understanding of the energetic coupling of various processes in the atmosphere and ocean and their influences on weather, climate and atmospheric variability. The advertised position is part of sub-project W6 “Spectral Energy Fluxes by Wave-Wave Interactions“. The aim of subproject W6 is to provide a novel understanding of the coupling between waves, turbulence and background winds.

Your Tasks:

The Department Modelling of Atmospheric Processes focuses on developing the weather and climate model ICON for applications in the mesosphere and thermosphere. The research focus of the advertised position are interactions between waves, turbulence and background winds in regional simulations of the ICON model. The unique approach of this project is to examine energy transfers in both spectral and physical space. To this end, the formulation of the global spectral energy budget of the atmosphere will be adapted for regional domains. In a first step, the methodology will be validated with idealized simulations. In a second step, the formalism will be applied to realistic simulations that are validated with observations (lidar, radar, rocket soundings).

Your Qualifications / Experience:

- a Diploma/Master’s degree in physics, meteorology, mathematics, or a related field
- interest in atmospheric dynamics
- strong background in theory and/or mathematics
- good communication skills, ability to work autonomously and self-responsible

- fluency in English as working language

What we offer:

- The DFG-CRC 181 offers a comprehensive and structured training for early career researchers. In addition to self-organized activities such as workshops, trainings and a guest program, the successful candidate will have the opportunity, if desired, to pursue international research visits. The consortium conducts an ambitious program to gradually enhance gender equality across all career levels.
- 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: **2024-21**

to: personal@iap-kborn.de

Please send applications by **December 12, 2024**. Applications beyond this date will be considered until the position is 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.

