

PhD Position (m, f, d) on the Satellite-based Characterization of Cloud Evolution in Arctic Cold Air Outbreaks

The **Leibniz Institute for Tropospheric Research (TROPOS)** is an internationally renowned research institute in the field of aerosol and cloud research, and a member of the Leibniz Association. Its **remote sensing department** is offering a **4-year PhD position** within the transregional collaborative research center TR172: Arctic Amplification, Climate relevant Atmospheric and SurfaCe Processes and Feedback Mechanisms (AC)³. The planned work shall be carried out in close collaboration with national project partners and in particular the Universities of Leipzig and Cologne.

The PhD student (m, f, d) will carry out the following tasks:

- Characterization of cloud properties, structure and evolution including their radiative effects during Arctic Cold Air Outbreaks (CAO) with satellite observations and other complementary data sources
- Comparison of operational satellite products with observations data collected from aircraft during field campaign for CAO
- Long-term analysis of satellite products and reanalysis datasets to investigate natural variability and potential trends in the occurrence frequency and strength of CAO as reflected in the associated cloud properties and radiative effects

We are looking for an excellent scientist with a **University degree in Meteorology** or a related subject such as Physics, Mathematics or Geosciences. Prior experience in analyzing large-volume observational data and with programming in Python or similar computer languages are highly desirable. Fluency in English and the ability to clearly present research results both in spoken and written form are also essential.

We offer an exciting job with varied activities in an interdisciplinary working environment and a variety of work and family offers as well as flexible working hours and daycare places. The employment is temporary and includes a part-time position with **30 hours / week (75% full-time equivalent)**. Remuneration is provided at **TV-L pay group 13**, including the attractive social benefits of the public sector. In order to increase the proportion of female employees in scientific and science-related positions, we hereby specifically invite female candidates to apply. People with severe disabilities have priority in the hiring process if they have the same suitability, aptitude and professional qualifications.

If you are interested in this position, please send your complete and informative application documents (including references) by 28. January 2024 exclusively by e-mail in one coherent PDF document to: bewerbung@tropos.de

Please contact us if you have any questions regarding this job offer:

Dr. Hartwig Deneke, Phone: +49-341-2717-7168, E-mail: deneke@tropos.de

By submitting the application documents by e-mail, the applicant agrees to the storage/processing of personal data in accordance with Art. 13 DSGVO for the purpose of selection for this job advertisement. The risks of sending documents electronically are hereby pointed out.

You can find more information about TROPOS on the homepage: www.tropos.de