



Karlsruhe Institute of Technology

Satellite Climatology
Prof. Dr. Jan Cermak

Within a research project we are looking for a

PostDoc / PhD student in ground-based remote sensing of low-level clouds and fog

The position can be filled immediately, and is available for up to two years on a PostDoc level (100% E13) or three years as a PhD student (75% E13). Flexible hours from 50% to 100% of a full position possible. Applications will be considered until the position has been filled.

With the position the successful candidate has the chance to participate in the European Aerosol, Clouds and Trace Gases Research Infrastructure (ACTRIS) project, working with ground-based remote sensing instrumentation (cloud radar, wind lidar, microwave radiometer, ceilometer and some smaller instruments) to characterize aspects of the development of low-level clouds and fog in Germany.

We are currently implementing the Karlsruhe Low Cloud Exploratory Platform (KLOCX), which will serve as a fully mobile ground-based observation system. With this unique infrastructure, we will analyze the life cycles of fog and low-level clouds as a link between the biosphere and the climate system. The candidate will join the already existing ACTRIS team in our group. More on the project: https://www.imk-asf.kit.edu/226_4081.php.

The position includes the following tasks:

- Setup of new instruments and plausibility checks of the measurements
- Scientifically analyze resulting measurement data sets
- Present progress at project meetings and conferences
- Contribution to project reports
- Support the setup of server infrastructure for the KLOCX platform
- Optional: participation in teaching

Your Profile:

- A Masters or PhD in Meteorology, Climate Science, Earth Sciences, or related disciplines
- Interested in fog and low-level clouds
- Enjoys working and collaborating with other team members
- Experience with ground-based remote sensing instrumentation is an asset.
- Experience in data management and project coordination in general is an asset.
- Proficient in spoken and written English.
- Ability to communicate in German is a benefit.
- Interested in profiting from the immense collaboration potential in the group, the project, and at KIT

If this sounds good to you, we are looking forward to hearing from you as soon as possible via email to Jan Cermak, jan.cermak@kit.edu. With your application please include:

- Motivation letter
- CV
- Contact details of two potential referees

Karlsruhe Institute of Technology (KIT) is one of the biggest research institutions worldwide and has access to state-of-the art research facilities resulting from the merger of the National Research Centre of the Helmholtz Association and the former Technical University. For the atmospheric sciences in particular, this means a vibrant and exciting environment full of opportunities.

The Satellite Climatology group is interested in the role of clouds in the climate system, with ongoing projects focusing on the development and application of **satellite techniques and machine learning** in climate system research (<https://s.kit.edu/satclim>).

Karlsruhe is a city of about 300,000 in the sunny south-west of Germany, with lots of urban green, a lively cultural environment, excellent public transport, very cycle-friendly, and with easy access to the Black Forest mountains.