



Karlsruhe Institute of Technology

**Satellite Climatology**  
**Prof. Dr. Jan Cermak**

We are looking for

***Scientists in***  
**Ground-Based Remote Sensing of Low-Level Clouds**

The positions can be filled immediately, and are available for two years initially (pay scale E13, flexible hours from 50% to 100% of a full position).

Ground-based remote sensing observations of low-level clouds and fog are of great use for understanding processes in these clouds, and, together with satellite data, to characterize their temporal and spatial development. Within the European Aerosol, Clouds and Trace Gases Research Infrastructure (ACTRIS) the scientists we are looking for will

- Work with ground-based remote sensing instrumentation (cloud radar, microwave radiometer, ceilometer and some smaller instruments) to characterize aspects of the development of low-level clouds and fog during campaigns in Germany. This includes the following
  - Coordinate the setup of the instrumentation
  - Work on cloud property retrievals
  - Scientifically analyze resulting cloud data sets
- Closely collaborate with other scientists in the group, at KIT and at other institutions

If this sounds interesting to you, and you have experience in cloud remote sensing, working with instruments, and a PhD in a related field, we are looking forward to hearing from you via email to [jan.cermak@kit.edu](mailto:jan.cermak@kit.edu). Please send your application as one pdf file including the following:

- Letter of motivation
- CV including publication list and names and email addresses of three potential referees
- A critical analysis of the potential of ground-based remote sensing potential for the topics addressed in the following two papers in max. 1 page: doi:10.1175/BAMS-D-18-0142.1, doi: 10.1016/j.jhydrol.2020.125451

Screening of applications will continue until 10 February 2021.

**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 **remote sensing and machine learning** in climate system research (<http://www.imk-asf.kit.edu/english/satelliteclimatology.php>).

**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.