

Announcement: PhD position (3 years, 75%) within the Experimental Meteorology Group at IMKTRO

The successful candidate will be part of the new working group “Experimental Meteorology” led by Prof. Dr. Raphaela Vogel at KIT’s Institute of Meteorology and Climate Troposphere Research ([IMKTRO](#)). Our group aims to improve our fundamental understanding of cloud and convective processes by combining in-situ and remote sensing observations, high-resolution simulations, and conceptual models. A current focus lies in creating observational benchmarks for critical atmospheric processes like rain evaporation, downdrafts and cold pools. This work is funded by the ERC Starting grant ROTOЯ, which elucidates the role of rain evaporation and cold pools for climate and the water cycle.

The position

Within ROTOЯ, the selected candidate will use new observations of rain evaporation, downdrafts and cold pools to assess their representation in high-resolution simulations. The candidate will both use existing simulations and perform new ICON simulations centered on the EUREC⁴A and ORCESTRA field campaigns. The work will be done in close collaboration with the other group members, and will help elucidate how the rain processes might change with and feedback on the changing climate.

Your profile

We are looking for a highly motivated candidate with a university degree in atmospheric science, physics, or a related field; a strong interest in atmospheric convection and cloud physics, good background in mathematics and physics, solid programming and data analysis skills (e.g., Python, shell scripting, processing and visualization of simulation and observation data), proficiency in written and spoken English, a good ability for both team and independent work, and a proactive and open-minded attitude.

Our offer

We offer a dynamic work environment at one of Germany’s largest research institutes for atmospheric sciences, ranked #1 in Germany in the Shanghai Ranking of Academic Subjects in Atmospheric Sciences. KIT actively supports equality, diversity and inclusion, and as an equal opportunity employer, KIT explicitly encourages applications from women as well as from others with diverse backgrounds and perspectives. Applicants with disabilities will be preferentially considered if suitably qualified. Payment of the position is 75% parttime according to TV-L E13, depending on the fulfillment of professional and personal requirements. Further benefits include flexible working hours, career-building and developmental opportunities, a corporate pension and a €25 monthly contribution toward a JobTicket BW. The job is located at KIT Campus Nord in Eggenstein-Leopoldshafen (and Karlsruhe).

Application

Please send your application, including (1) a letter of motivation, (2) a CV, (3) contact information of two potential referees, and (4) relevant certificates (e.g. BSc and MSc certificates & transcripts), as a single pdf file to raphaela.vogel@kit.edu. Review of applications will start on **15 September 2026** and will continue until the position is filled.