

Post-Doc Position at KIT within “Nutzbare Lokale Klimainformationen für Deutschland 2/ Actionable local climate information for Germany 2 (NUKLEUS2)” Project

Karlsruhe Institute of Technology (KIT), Institute of Meteorology and Climate Research

KIT is a distinguished research university that combines three core tasks – research, education and innovation – into a single mission. With 9,300 employees and almost 25,000 students, it is one of the largest institutions of research and higher education in natural sciences and engineering in Europe. KIT was awarded the title "University of Excellence" within the German Excellence Strategy launched by the federal and state governments on 19 July 2019. In the area of Atmospheric Science, KIT was ranked #1 in Germany and #8 worldwide in the 2019 Shanghai Ranking.

The Institute of Meteorology and Climate Research Department Troposphere Research (IMKTRO) participates in the KIT Centers ‘*Climate and Environment*’ and ‘*MathSEE (Mathematics in Sciences, Engineering, and Economics)*’ and contributes significantly to the program ‘*Changing Earth*’ of the Helmholtz Association. IMKTRO (<http://www.imk-tro.kit.edu/english/index.php>) focuses on troposphere research, climate variability and change, water cycle and trace substance budgets. The Working Group "Regional Climate and Weather Hazards" (<http://www.imk-tro.kit.edu/english/7144.php>) focusses on an integrated analysis of extreme weather and climate events, climate change, climate variability and risk assessment. Particular attention is given to the links between the weather, climate, regionalisation and risk assessment perspectives associated with extreme events.

One of the large projects where we are involved in is the BMBF „Regionale Information zum Klimahandeln (RegIKlim)“ research program, in which NUKLEUS2 is embedded. The aim of NUKLEUS2 is the provision of up-to-date regional climate projections for the use in local to regional climate adaptation. The Shared Socioeconomic Pathways (SSPs) newly introduced in CMIP6 and the further development of the climate models make an update of the regional climate projections for Germany necessary. NUKLEUS is involved the generation of kilometre-scale climate projections for Germany and contributes to the development for a prototype of a novel web platform to deliver up-to-date climate change information to stakeholders for the planning of adaptation measures.

We have an **open position for PostDoc for a period of 18 months** within the NUKLEUS2 project.

(with possible extension afterwards)

Duties of the Position: Analysis of the skill and added value of kilometer-scale climate change simulations, develop analysis tools for the municipal authorities and other stakeholders. Contribute to the analysis of corresponding international activities on the new generation of CMIP6 downscaling ensembles for Europe (CORDEX CMIP6).

The KIT PIs are Prof. Dr. Joaquim Pinto and Dipl.-Geophys. Hendrik Feldmann.

Requirements: PhD in Meteorology, Climate Science, Earth Sciences, Physics or related disciplines and with statistical and process-based evaluation of climate model data is desired. The applicant must be proficient in spoken and written English.

Additional qualifications: For this position, first experiences with numerical modelling (preferably ICON or COSMO-CLM) would be advantageous. The candidate should also be experienced in scientific programming (e.g., linux, python, fortran, cdo, Matlab, R, etc...). German language skills are advantageous but not mandatory.

The application should contain:

- A Curriculum Vitae
- A cover letter stating your scientific interests and what motivates you to apply for this position
- A list of scientific publications
- Contact details (incl. email and telephone number) of two references

The candidates will be short-listed based on the materials in the application, the top ranked candidates will be interviewed digitally and the references will be collected.

Salary: The remuneration is based on the collective agreement of the public service in the remuneration group TVL E13.

Starting date: 15-01-2025 or as otherwise agreed.

Period: the contract time will be **18 months**, with possible extension afterwards

Terms and conditions of employment: The group is based on the research campus of KIT located about 10 km to the North of Karlsruhe city centre.

Scope of employment: 100%

For further information about this position please contact:

Joaquim Pinto (joaquim.pinto@kit.edu)
Hendrik Feldmann (hendrik.feldmann@kit.edu)

Please send your application together with the documents requested above in one single pdf file by **October 18th 2024** to the PIs e-mails listed above.

KIT actively supports equality, diversity and inclusion, and as an equal opportunity employer, KIT explicitly encourages applications from women as well as from all others who will bring additional diversity to the university's research and teaching. Applicants with disabilities will be preferentially considered if suitably qualified.

Are you considering moving to Germany to work at KIT? If so, you will find a lot of information about working and living in Germany at <http://www.intl.kit.edu/ischolar/index.php>. You are also welcome to contact the International Scholars & Welcome Office at scholar@intl.kit.edu.