

Karlsruhe Institute of Technology (KIT) – The Research University in the Helmholtz Association creates and imparts knowledge for the society and the environment. It is our goal to make significant contributions to mastering the global challenges of mankind in the fields of energy, mobility, and information. For this, about 9000 employees of KIT cooperate in a broad range of disciplines in research, academic education, and innovation.

For our **Institute of Meteorology and Climate Research / Atmospheric Environmental Research (KIT/IMK-IFU)** at Campus Alpin in **Garmisch-Partenkirchen, Germany**, Division Regional Climate Systems, Research group Regional Climate and Hydrology, we are looking for a

PostDoc / Senior Scientist (f/m/d)

in the field of **operational probabilistic sub-seasonal to seasonal (S2S) forecasting and cloud computing**.

The position is part of an international project on an improved meteorological-hydrological forecasting system for transboundary water management of the Blue Nile River using a “seamless” approach, i.e. with intersecting forecast horizons ranging from days to several months. The project will be conducted in close cooperation with Sudanese and Ethiopian partners. A central task of the position will be to develop a “cloud-ready” workflow, implement an online decision-support tool and transfer the system into practice.

The offered position is embedded in a small thematic team engaged with the post-processing of S2S forecasts and is limited for 33 months.

Your Profile

- A PhD in (Geo-)Informatics, Mathematics, Physics, Environmental- or Geo-Sciences, Meteorology, Hydrology, or related fields with strong relation to scientific computing
- Sound experience in bias correction methods, data management, big data geoscience, cloud-ready implementation and project coordination in general is an asset
- Strong programming and modern software engineering skills
- Deep knowledge of programming languages, preferably Python (including PANGEO ecosystem)
- Experience in high-performance computing, working on Linux clusters
- English language proficiency, ability to communicate in German is a benefit.
- Strong writing skills and excellent publication record
- Self-motivated personality, with strong communication and coordination skills to work within a multi-disciplinary team and environment on challenging international problems
- Willingness to present the research results at international conferences, to interact with stakeholders and to travel to the project regions in Sudan and Ethiopia

We offer

- International, interdisciplinary and friendly working environment
- Payment will be in accordance with German public service positions (TV-L E13)
- Attractive research campus at the foot of Germany's highest mountain

Applications

Applications should be sent by email as one pdf file to Prof. Dr. Harald Kunstmann (harald.kunstmann [at]kit.edu) and in copy to Verena Wedler (verena.wedler [at]kit.edu) and should include a detailed CV, including personal contact information and two references as well as a statement addressing your specific interest, motivation and qualifications for the position.

The application will remain open until a suitable candidate has been found.

We prefer to balance the number of employees (f/m/d). Therefore, we kindly ask female applicants to apply for this job. Recognized severely disabled persons will be preferred if they are equally qualified.

Start of application phase: 07.11.2022