Announcement: Research Associate (4 years)

in support of the Hans Ertel Centre project ICON-SmART

The Hans Ertel Centre for Weather Research (Hans-Ertel-Zentrum, HErZ, www.hans-ertel-zentrum.de) carries out fundamental research to improve weather forecasting and climate monitoring in a network between Deutscher Wetterdienst and leading meteorological research institutions in Germany .The HErZ research group "ICON-SmART", located at KIT, addresses the role of aerosols and atmospheric chemistry for the simulation of seasonal to decadal climate variability and change. To this end, the project will enhance the capabilities of the coupled composition, weather and climate modelling system ICON-ART (ICON, icosahedral nonhydrostatic model – developed by DWD, MPI-M and DKRZ with the atmospheric composition module ART, aerosols and reactive trace gases – developed at KIT, see www.icon-art.kit.edu) for seamless seasonal to decadal predictions

and climate projections in global to regional model configurations with ICON-Seamless-ART (ICON-SmART). A group of four postdoctoral/doctoral researchers deals with the coupling of ART to the land surface and ocean models, a comprehensive (tropospheric and stratospheric) chemistry scheme, scale-aware parameterizations and speed-up of process submodules with machine learning methods, and the evaluation of ICON-SmART.
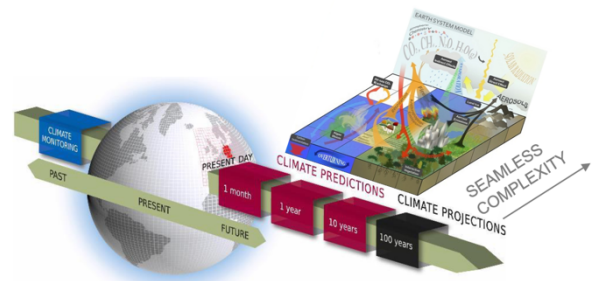

Figure adapted from Heavens et al. 2013 & Barbara Früh, ICON-Seamless presentation, 2022

To support this exciting project, we are looking for a research associate to

- Support the coordination of the project ICON-SmART: foster interactions between the postdoctoral and doctoral researchers within the project, KIT, Deutscher Wetterdienst and the other HErZ projects, organize meetings, contribute to project reporting and outreach
- Integrate new model developments in collaboration with other project contributors
- Implement and test additional model developments and applications e.g. on aerosol emission, aerosol dynamics or interaction with radiation and clouds, depending on the candidate's expertise
- Contribute to and/or lead publications and conference contributions on ICON-SmART

We are looking for a highly motivated, independent candidate, preferably with a background in aerosol or chemistry modelling and experience in project management, and a PhD in meteorology, physics, chemistry, or a similar field. 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 Acadamic Subjects in Atmospheric Sciences. KIT, the research university within the Helmholtz Association, combines three core tasks — research, education and innovation — into a single mission. With 9,400 employees and 25,000 students, it is one of the largest institutions of research and higher

education in natural sciences and engineering in Europe. 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 according to TV-L E13, depending on the fulfillment of professional and personal requirements. Part-time work is possible.

Please apply via https://www.pse.kit.edu/english/karriere/joboffer.php?id=143754
Questions regarding the position can be directed to Prof. Dr. **Corinna Hoose** (corinna.hoose@kit.edu).

Review of applications for the position will start on **7 April, 2024**, and will continue until the position is filled.