

The Karlsruhe Institute of Technology and its Institute of Meteorology and Climate Research - Atmospheric Environmental Research (KIT/IMK-IFU), KIT-Campus Alpin in Garmisch-Partenkirchen, Germany, invites applications to an open

## Postdoc position on forest ecosystem modelling.

The position is within the Plant Ecophysiology research group and contributes to the DFG-funded project: **“Forests out of balance: Impacts of extreme events on carbon and water cycling”**. The research focus lies on the impact of extreme summer drought events on forest carbon and water dynamics. Because the frequencies of extreme climate events are increasing globally with yet unknown consequences for forest ecosystems, a process-based model (LandscapeDNDC) will be applied to estimate pine forest responses to repeated, extreme drought events. To improve tree physiological stress responses in the model, a tree hydraulic routine will be implemented a priori. Model refinement and evaluation is facilitated through existing observational and experimental data.

### Requirements

Professional requirements are a PhD degree (or equivalent) in environmental sciences, biogeochemistry, biology, atmospheric science, physics, or a related field. English language proficiency and the proven ability to write scientific publications and to work with large datasets are required. Assets are a familiarity with programming, ecosystem models, biogeochemical cycles or plant physiology. An inclination towards teamwork and collaborations with other scientists is expected.

**We offer** an interesting research position in an active team within a multi-disciplinary, collaborative research environment with excellent research infrastructure and support, well connected to national and international programmes. Salary and benefits will be according to the Collective Agreements for state employees (TV-L). Appointment is for a period of **two years**.

**Enquiries and applications** including a short statement of motivation, CV, certificates, thesis abstract, list of publications (if any) and contact information of two professional referees can be directed to

### Dr. Nadine Ruehr

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Applications arriving before **May 15<sup>th</sup>, 2019** will be given full consideration, but the position will remain open until a suitable candidate has been identified.

For further information about KIT-Campus Alpin (IMK-IFU) see <http://www.imk-ifu.kit.edu/> and information on the Plant Ecophysiology research group can be found here <https://ecophys.imk-ifu.kit.edu>

KIT strives to achieve gender balance at all levels of employment. We therefore particularly encourage female candidates to apply for this position. With appropriate qualifications, applications from persons with handicaps will be treated with preference.