

Karlsruhe Institute of Technology (KIT) is the result of the merger of university Karlsruhe and research center Karlsruhe. It is a unique institution in Germany, which combines the mission of a university with that of a large-scale research center of the Helmholtz Association. With 9400 employees and an annual budget of EUR 800 M., KIT is one of the largest research and education institutions worldwide.

Our Institute of Meteorology and Climate Research - Atmospheric Environmental Research Division (IMK-IFU) in Garmisch-Partenkirchen (Germany) invites applications for an

Environmental Modeller: Land ecosystems response to environmental changes

We seek a creative and communicative colleague in the Global Land-Ecosystem Modelling Group (<https://lemg.imk-ifu.kit.edu/>), based in KIT's Atmospheric Environment Division in Garmisch-Partenkirchen. Questions addressed in the group cover the interactions of environmental changes (especially land-use change and climate change) with ecosystem biogeochemical and water cycles, functional diversity, and ecosystem services. Specifically, we seek to

- further develop, evaluate and apply the dynamic global vegetation model LPJ-GUESS for land-based climate change mitigation (such as modelling bioenergy yield, 'climate smart' cropland management)
- contribute to development, simulations and analyses of the coupled socio-economic model LandSyMM
- lead and contribute to peer-reviewed publications arising from the work
- contribute to general tasks in the group such as teaching, website maintenance, project reports or proposal writing

We offer: a multi-disciplinary, highly collaborative and friendly team, well connected to national and international research networks and activities. Salary and benefits will be based on the Collective Agreement for the German Public Service Sector (TV-L EG13). Appointment will be initially for a period of 2 years, starting as soon as possible.

Required qualifications:

- PhD in a natural or computer science subject (e.g., environmental science, mathematics, ecology, meteorology, information technology)
- Proven track-record in advanced scientific programming or quantitative data-analysis
- Very good publication record (depending on the stage of career)
- The appointee must be willing to travel and have very good spoken and written skills in the English language; German is an advantage

Candidates will be evaluated based on their track record, adjusted for their seniority, parental leave, etc. We highly value diversity in our group, and encourage in particular female or diverse candidates to apply.

Applications, including a CV, description of programming experience, a letter of motivation, and names and contacts of two references should be sent **by email as a single pdf** to Prof. Almut Arneth ([almut.arneth\(at\)kit.edu](mailto:almut.arneth(at)kit.edu)) **by 10.11.2021**, quoting the reference number **IsoTech**.