Institute of Meteorology and Climate Research
Atmospheric Environmental Research (IMK-IFU)

Kreuzeckbahnstr. 19
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Karlsruhe Institute of Technology (KIT) is the result of the merger of former Karlsruhe University 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.

Scientific Programmer (f/d/m):
Modelling terrestrial ecosystems response to environmental changes

We seek a creative and communicative colleague to join the land-ecosystem modelling group (LEMG; https://lemg.imk-ifu.kit.edu/) in our Institute of Meteorology and Climate Research - Atmospheric Environmental Research (IMK-IFU) in Garmisch-Partenkirchen. You will be developing highly advanced model systems (dynamic global vegetation models, functional biodiversity models, coupled socio-economic/ecological models). Your skills will help to solve questions of utmost importance, posed by the combined challenges of climate change, land-use change and biodiversity loss.

Tasks include:

- Contribute to various development tasks, code development and documentation of the models LPJ-GUESS, Madingley and LandSyMM (more information available at the LEMG website)
- Contribute to simulations and analyses of model output
- Support other members of the team in code development and simulation set-up
- Contribute to publications arising from the work
- Contribute to general tasks in the team such as teaching, ordering of computing equipment, project reports or proposal writing

We are: a multi-disciplinary, collaborative and friendly team, well connected to national and international research networks and activities. This includes close cooperation with colleagues at IMK-IFU, Lund University (Sweden), Edinburgh (UK), Western Sydney (AU) and many others worldwide.

The foreseen starting date is flexible, ideally late 2023/early 2024. The appointment will be initially for a period of two years; extension up to five years is possible, depending on previous years of work in the German public sector, on successfully achieving set milestones in the foreseen tasks, and continued availability of funds. Salary and benefits will be based on the Collective Agreement for the German Public Service Sector (TV-L).

Required qualifications:

- MSc or PhD in a relevant subject (e.g., environmental science, meteorology, information technology, atmospheric physics, ecology)
- In-depth, practical knowledge of modern coding and data-analyses languages (e.g., C++, R, Python..; GIS is insufficient)
- Proven track-record in advanced scientific programming or quantitative data-analysis
- You will need to be willing to travel and have very good spoken and written skills in the English language

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

Applications, including a letter of motivation, your CV including a short description of your previous programming experience, and contact details of two referees should be sent by email as a single pdf to Prof. Almut Arneth (almut.arneth(at)kit.edu) by 24.08.2023, quoting the reference number LEMG-SP.

You will be notified about the outcome of an initial screening of applications by early September, but we do not have the capacity to respond to incomplete applications and those that do not fit the required profile. The position will remain open until filled.