

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 humankind 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.

The Institute of Meteorology and Climate Research / Atmospheric Environmental Research (KIT/IMK-IFU) at the **KIT-Campus Alpin in Garmisch-Partenkirchen**, Germany, invites applications for

1-2 Research scientists (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 and applying advanced model systems (i.e., the dynamic global vegetation model LPJ-GUESS or coupled socio-economic/ecological models (LandSyMM)). 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:

- Lead and contribute to simulations and analyses of model output, for instance in context of a number of EU projects (ForestPaths: <https://efi.int/news/forestpaths-project-forest-based-policy-pathways-towards-climate-neutral-society-2022-06-13>; wildE: <https://www.wilde-project.eu/about>) and other initiatives
- Develop ideas for exciting research within the context of these projects
- Develop new modelling features such as agroforestry
- Lead and contribute to publications arising from the work
- Contribute to general tasks in the team such as teaching, website maintenance, or project reports

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. You will have the opportunity to further enhance your academic career through leading tasks and cooperating in the ongoing projects, and by developing project proposals, jointly with the head of the group.

The foreseen starting date is flexible, ideally by mid 2024. The appointment will be initially for a period of two years; extension for another one to two 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) depending on experience.

Required Qualifications

- PhD in a relevant subject (e.g., environmental science, meteorology, information technology, atmospheric physics, ecology)
- Practical knowledge of modern coding and data-analysis languages (e.g., C++, R, Python...)
- Proven track-record in running simulations and quantitative data-analysis (GIS is insufficient)

- Above-average publication record and having applied successfully for funding previously is an advantage
- You will need to be willing to travel and have very good spoken and written skills in the English language

Applications

Applications should be submitted as a single PDF document, including a letter of motivation, your CV including a short description of your previous research and programming experience, and contact details of two referees. Please send your full application by **15.03.2024** online via the [KIT-Campus Alpin job portal](#) (Vacancy No. 87/2024 – Research scientist IMKIFU). The position remains open until a qualified candidate is found.

For further information please contact Prof. Dr. Almut Arneth (almut.arneth@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 are treated preferentially.