

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 mankind in the fields of energy, mobility, and information. For this, over 9000 employees of KIT cooperate in a broad range of disciplines in re-search, academic education, and innovation.

The division “Bio-Geo-Chemical Processes” of the **Institute of Meteorology and Climate Research / Atmospheric Environmental Research (KIT/IMK-IFU)** at Campus Alpin in **Garmisch-Partenkirchen, Germany**, invites applications for a

Postdoctoral Researcher (m/f/d) in the field of

“Biogeochemical modelling of ecosystem C- and N cycling with a focus on N₂O emissions”

The announced position is embedded in the Horizon Europe project PARIS (<http://horizoneurope-paris.eu>). This team joins forces to reconcile bottom-up and top-down approaches and to foster collaboration between research and national inventory teams.

The **successful candidate** will

- Improve the biogeochemical model LandscapeDNDC (<http://ldndc.imk-ifu.kit.edu>) based on information gained in N₂O isotope measurement campaigns
- Compile input datasets for the focus countries Germany, Switzerland and the UK
- Apply LandscapeDNDC on site - and national scale
- Interpret model results in close collaboration with peers from both the bottom-up and top-down community

We seek for a highly motivated person experienced in modelling who likes to get to the bottom of things and enjoys working in a team with the following **qualifications**:

- University degree (PhD) in physics, environmental sciences, geocology, chemistry, or any related field
- Sound programming skills (C/C++, Fortran, SVN, Git, Python, R, Bash)
- Experience in ecosystem modeling
- Knowledge on spatial analysis and GIS systems
- Understanding of biogeochemical nutrient cycles in plant-soil systems
- Knowledge of stable isotope analysis is a plus
- English language proficiency and ability to write scientific publications
- Strong communication and teamwork skills

We offer

- International, interdisciplinary and friendly working environment
- Large international network
- Attractive research campus at the foot of Germany's highest mountain
- The gross salary depends on qualification and experience within the Collective Agreement for the German Public Service Sector (TV-L 13), with the position being limited for three years

Applications

Please submit your application documents by **October 20th, 2023** online via the KIT job portal <https://www.pse.kit.edu/english/karriere/121.php> **vacancy number 579/2023** including a detailed CV as well as a motivation letter and two contacts for references. Specifically, the following points should be addressed

- What skill and abilities would you bring to the team?
- What skills and abilities would you hope to gain from working in this position? What is your specific research interest regarding agriculture and climate change?

For further information please contact **Dr. Benjamin Wolf (Benjamin.wolf[at]kit.edu)**.

We expect to fill the position by **December 1st, 2023** or **as soon as possible**, but the application will remain open until a suitable candidate has been found.

We prefer to balance the number of employees (f/m/d). Therefore, we kindly ask female applicants to apply for this job. Recognized severely disabled persons will be preferred if they are equally qualified.