The Karlsruhe Institute of Technology (KIT) and its Institute of Meteorology and Climate Research/Atmospheric Environmental Research (KIT/IMK-IFU) in Garmisch-Partenkirchen, Germany, invites applications for a 

**Post-doctoral position/scientific programmer:**

**Modelling the role of animals for terrestrial carbon cycling**

How do ecosystem state and function and ecosystem functional diversity interact? What is the role of animals for carbon and nitrogen turnover? Does altering heterotrophic composition in an ecosystem affect carbon cycle climate feedbacks?

We seek a curious, self-motivated post-doctoral researcher or scientific programmer to assess these questions, who will:

- Contribute to the coupling of the dynamic global vegetation model LPJ-GUESS to the multi-trophic functional diversity model Madingley;
- Develop Madingley in key features, such as animal C:N stoichiometry or soil organisms; Test and apply the model globally and regionally;
- Contribute to the compilation and analysis of a broad range of suitable observations to assess model performance;
- Contribute some amount of time to broader activities in the group, such as teaching, grant applications and group meetings.

The work is based at the KIT’s department of Atmospheric Environmental Research, KIT-Campus Alpin in Garmisch-Partenkirchen, Germany, and will be done in close collaboration with groups world-wide, especially in the UK and Sweden.

**Requirements**

The candidate needs to have good programming skills (such as in C++), and experience in simulations on Linux clusters. A degree in a quantitative environmental sciences discipline, for instance meteorology, environmental physics or ecophysiology of plants or animals is required. Knowledge of animal physiological and ecological processes is a clear advantage. The candidate also needs to be familiar with processing large-scale model input and output. Excellent oral and written skills in English are prerequisite, as is the willingness to travel.

**We offer**

A vibrant and friendly, international research environment in the beautiful surroundings of Garmisch-Partenkirchen, Germany (http://www.imk-ifu.kit.edu/institute.php). The salary will be equivalent to the public service TV-L EG13, depending on qualifications and experience. The appointment will be for 2 years, expected to start summer 2020; extension beyond 2 years will depend on the availability of funds.

For more information please contact Prof. Dr. Almut Arneth (zoo2(at)nym.hush.com).
Applications

Applications should be sent by email to zoo2(at)nym.hush.com by **31 May 2020**, quoting the reference “Madingley”. Please send a **single pdf** that contains a copy of your CV including a publication list, a short (1-2 page) letter of motivation and contact details for 2 referees. The motivation letter should clearly provide evidence of your programming skills, and how you feel you can contribute to the main tasks.

Applications that are incomplete or do not meet the above requirements will not be considered.

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.