



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 (Ph.D student): animating terrestrial ecosystem dynamics

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 to assess these questions, who will:

- couple the dynamic global vegetation model LPJ-GUESS to the multi-trophic functional diversity model Madingley;
- apply the model globally and regionally;
- compile and analyse a broad range of suitable observations to assess model performance;
- contribute some amount of time to broader duties, such as project reporting and teaching.

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

Requirements

The candidate must demonstrate advanced knowledge in programming (such as in C++), and must have proven 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 about soil and vegetation 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.

Given suitable qualifications, the position might also be considered for a Ph.D. student.

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 early autumn 2018; extension beyond 2 years is possible, depending on the availability of funds.**

For more information please contact Prof. Dr. Almut Arneth (Almut.arneth@kit.edu).

Applications

Applications should be sent by email to **Prof. Almut Arneth** (almut.arneth@kit.edu) by **9 July 2018**, quoting the reference "Madingley". Please send 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 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.