



Scientific programmer at KIT/Campus Alpin

You have knowledge about land ecosystems and advanced IT skills and a keen interest to apply these to help addressing societally and ecologically relevant research challenges? If that's the case, we can offer you an interesting position, in a friendly and international team and a beautiful location, KIT's Atmospheric Environmental Research Department located at the 'Campus Alpin' in Garmisch-Partenkirchen, Germany.

Background

The Global Land-Ecosystem Modelling Group (<https://lemg.imk-ifu.kit.edu/>) seeks an ecosystem modeller to support code development and applications that address interactions of climate change, biodiversity loss and land-use change. This position focuses on the LPJ-GUESS ecosystem model in particular in context of LandSyMM (www.landsymm.earth), to enhance its capacity to model important processes relevant within these interactions.

You will have the opportunity to:

- Contribute to the development of a full, online coupling of LandSyMM
- Develop ideas for model applications, simulation set-up and analysis and publications
- Further develop LPJ-GUESS to investigate the impact of land management on ecosystem properties
- Conduct literature searches to obtain data for model testing and evaluation
- Document your code development and performance
- Collaborate with LEMG team members and partners at other institutions (especially University of Edinburgh and Lund University).

Requirements

- A Ph.D. degree in environmental science, ecology, meteorology, or related areas.
- Demonstrated knowledge in coding languages, ideally C++.
- Demonstrated proficiency in Python or R.
- Fluency in English, strong communication skills, team spirit.
- Practical experience with version control systems like git, and familiarity with software testing and documentation practices.
- Familiarity with high-performance computing (HPC) systems, parallel data processing, and data formats such as netCDF.
- Willingness to travel
- Previous experience in running or developing an ecosystem model is an advantage.

The position is limited to an initial period of 3 years, prolongation may be possible depending on the availability of funds. Salary and benefits will be based on the Collective Agreement for the German Public Service Sector (TV-L). We can't compete with what industry offers in terms of salary to IT specialists. But we can make up for this by the stunning nature we're living in, by offering a job with a meaning, and by being lively and likeable colleagues.

If you're interested please apply by June 6. Please upload your motivation letter, C.V including a publication list and contact details of two referees, in a single file via this link:

<https://jobs.pse.kit.edu/en/jobs/168531/scientific-programmer-mfd>

Applications not sent via this link, incomplete applications or those that do not fit the profile cannot be considered.