Karlsruhe Institute of Technology

KIT-Campus Alpin
IMK-IFU: Atmospheric Environmental Research

Institute of Meteorology and Climate Research
Atmospheric Environmental Research (IMK-IFU)

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Two postdoctoral researchers in *land-based, climate change mitigation modelling*

Karlsruhe Institute of Technology, Campus Alpin (IMK-IFU), Garmisch-Partenkirchen, Germany

Overview

We are seeking two postdoctoral researchers in the field of land-based, climate change mitigation modelling. The positions will be held within the Land Use & Climate Change Research Group (https://landchange.imk-ifu.kit.edu/) and the Global Land Ecosystem Modelling Group (https://lemg.imk-ifu.kit.edu/) of the Karlsruhe Institute of Technology (KIT), located at KIT's 'Campus Alpin' in Garmisch-Partenkirchen. Specifically, we seek to employ:

- A land use modeller to develop and apply the CRAFTY agent-based model of land use change (see: https://landchange.imk-ifu.kit.edu/CRAFTY) in evaluating land-based, climate change mitigation scenarios and policy options at the national scale in Germany (ref: LUC-ABM);
- An ecosystem modeller to develop and apply the LPJ-GUESS model (https://lemg.imk-ifu.kit.edu/themes/land-climate-interactions) in evaluating vegetation dynamics and biogeochemical cycling globally and nationally for Germany (ref: LUC-DGVM).

Your specific roles will be to contribute to the further development and application of these models individually, but also in an integrated way within a coupled modelling framework. The positions will also entail some contributions to teaching and group administration. The positions are available from 1 October 2021 for 3 years (subject to confirmation of project funding) with the position holders being located at KITs attractive Alpine Campus in Garmisch-Partenkirchen, Germany. Salary will be equivalent to the public service TV-L EG13, depending on qualifications and experience.

Qualifications

You will have a PhD degree in a relevant discipline and strong quantitative skills in computer modelling and the analysis of large-scale datasets in the environmental sciences (GIS experience alone is insufficient). Depending on the position applied for, experience with statistical analysis, scenario analysis, ecological economics, ecosystem modelling, computational social sciences and/or computer programming is desirable. You will need to have proficiency in the English language, both spoken and in writing and preferably a working knowledge of German. Further information can be obtained from Prof. Mark Rounsevell (mark.rounsevell@kit.edu) for LUC-ABM and Prof. Almut Arneth (almut.arneth@kit.edu) for LUC-DGVM.

Applications

Applications should be sent by email to Sylvia Kratz (sylvia.kratz@kit.edu) by **Friday 9 July 2021,** quoting the relevant reference, *LUC-ABM* or *LUC-DGVM*. Applications should be submitted within a single PDF document that includes your CV, publications list (with citations), a short (1-2 page) letter of motivation and contact details for 2 referees. The motivation letter should clearly state how your research interests relate to the job specifications provided above. Please also indicate where you heard about this job opportunity. Applications that are incomplete or do not address these criteria will not be considered.

Interviews will be held remotely on **Thursday 22, Friday 23 or Monday July 2021.**

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.