

In the scope of the interdisciplinary research project “Blick in die Zukunft (BLIZ): Wechselwirkungen zwischen Gesellschaft, Landnutzung, Ökosystemleistungen und Biodiversität in Bayern bis 2100” funded by the Bavarian Climate Research Network “bayklif” of the Bavarian State Ministry, we invite applications for a

Scientific Programmer

part-time position (50 %), initially limited for 3 years

Your profile

- Full university degree (Diploma/M.Sc.) in environmental sciences, physics, computer science or a related discipline.
- Excellent programming skills (preferably C++ and R or Python), experience in scientific programming is an asset.
- Experience with high-performance computing in a Linux/Unix environment and with processing of large datasets (e.g. climate data in NetCDF format)
- Good communication skills and the interest to work in an interdisciplinary team.

Tasks

You will be a team member of the recently started interdisciplinary research project “BLIZ”. Together with partners from the JMU Würzburg, University of Regensburg, FAU Erlangen and partners within TUM, we will develop future scenarios for sustainable management of ecosystems. The main goal of the project is to develop adaptation strategies to maintain sustainable ecological systems and to avoid tipping points. The approach is to develop a model-based strategy for identifying and operationalizing risk resilient ecosystem management strategies. Specific tasks of the scientific programmer are (1) model development including the implementation new model features in the dynamic vegetation model LPJ-GUESS (e.g. land management processes), (2) formatting of input and output data, (3) supporting the model development and model applications of the team members. In close collaboration with our partners, the scientific programmer contributes to the integration of LPJ-GUESS with a multi-objective, risk-sensitive optimization model and to the evaluation of parameter uncertainties.

Our offer

- Stimulating working environment and an interdisciplinary research team.
- The conditions of employment follow the rules of the German tariffs of public services (TV-L). The position is part-time (50%). The contract for the position will initially be limited to 3 years.
- TUM is an equal opportunity employer. Qualified women are therefore particularly encouraged to apply. Applicants with disabilities are treated with preference given comparable qualification.

Contact

- Please send your application, including a cover letter, a detailed CV and contact information of two referees, as soon as possible (latest by June 15, 2018) in the form of a single pdf-file to Sandra Großkopf (grosskopf@wzw.tum.de).
- Appointment date is as soon as possible.
- For further inquiries, please contact Prof. Anja Rammig (Anja.Rammig@tum.de).
- For more information, see www.bayklif-bliz.de or www.lsai.wzw.tum.de