

The Faculty of Applied Computer Science of the University of Augsburg, Chair for Regional Climate and Hydrology (Prof. Dr. Harald Kunstmann) is offering a

PostDoc position (100%) in the field of regional Earth System Modelling

for a fixed-term contract until 30.04.2024 (with options for extension) to be filled as soon as possible.

Research fields and responsibilities

The position belongs to the CONCERT project and is part of WASCAL (West African Science Service Center on Climate Change and Adapted Land Use), funded by the Federal Ministry of Education and Research in Germany (BMBF). CONCERT aims to identify emission mitigation options for the major greenhouse gases under climate- and land use changes in parallel to improving food security in the West African savanna. This position deals with a) the development and adaptation of a regional Earth System Model as a tool to assess present and future water availability, land use, crop growth, and greenhouse gas emissions, b) ESM model scenario analysis in terms of identification of options for climate smart landscapes, and c) projection of carbon sequestration potentials in the near and far future. The successful candidate will be part of an international research consortium and jointly collaborate with 2 more Postdocs and 5 PhD students. The successful candidate is further expected to support the project coordination. The work is done in close collaboration with the Campus Alpin of the Karlsruhe Institute of Technology in Garmisch-Partenkirchen.

Conditions of employment

- Above average university degree in natural-sciences (PhD), preferably in climate and environmental sciences or related disciplines such as physics, meteorology, environmental engineering, hydrology
- Excellent scientific record
- Demonstrated expertise in earth system modelling or atmospheric modelling
- Expert knowledge in land-surface, hydrological or vegetation modelling
- Excellent programming skills (e.g. FORTRAN, Python, UNIX/Linux including scripting)
- Ability to work with large data sets and high-performance computing systems
- Willingness for international travel to West Africa
- Very good knowledge of English, good communication skills in German and French are an asset.

This position can be varied as part-time employment, provided that job sharing ensures the full-time performance of the tasks. The salary is based on personal and collectively agreed conditions up to *Entgeltgruppe 13 TV-L*.

The University of Augsburg promotes the professional equality of women. Female candidates are explicitly invited to submit their application. The University of Augsburg stands up for compatibility of family and professional life. For more information, please

contact the woman's representative office. Severely disabled applicants are given preferential consideration in the event of equal qualification.

The required qualifications have to be attached in the application papers by means of corresponding certificates/documents. Applications (please only in English) including the usual attachments (CV, certificates, documents, publication list, etc.) should be submitted as a single pdf-file until **June 7th, 2021** to:

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and to sina.berger@geo.uni-augsburg.de, in copy.