

University of Augsburg

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

PostDoc position in the field of regional energy-meteorology modeling for Ghana

until May 31st, 2022 starting at **earliest convenience**.

Research fields and responsibilities

The scientist will participate in a research project entitled “*Energy Self-sufficiency for Health Facilities in Ghana – EnerSHelf*”, which is funded via the “CLIENT II” program of the German Federal Ministry for Education and Research (BMBF). The successful candidate will closely cooperate with the project partners from the West African Science Service Center on Climate Change and Adaptation (WASCAL). The major objectives for the position are:

- To set up, evaluate, and operationally provide high resolution forecasts of energy production relevant meteorological variables for system control for the whole territory of Ghana
- To install and maintain 3 automatic meteorological observation stations at hospital locations
- To collect local data of solar irradiance, from the national meteorological service, and evaluate available commercial climatologies for the region
- Preparation of scientific publications in international peer-reviewed journals
- Participation in conferences as well as organization/support of seminars and workshops.

Conditions of employment

- Above average university degree in natural-science (PhD), preferably in meteorology, hydrology, physical geography, or physics, as well as an excellent scientific record
- Demonstrated expertise in local area modeling, dynamic downscaling (preferably WRF, or Solar-WRF), craft skills (assembling meteorological sensors and setting up data-loggers and data transfer)
- Competent with FORTRAN and either Python or R; good knowledge of UNIX/Linux including scripting; ability to work with high-performance computing systems
- Willingness to assist in the organization of and to participate in the project's field campaigns (travel to Ghana), and to present the research at workshops and international conferences
- Creativity and good experimental skills
- Self-reliant and responsible working style, flexibility and the capacity of team work
- Pleasure and commitment to an international orientation of research
- Very good knowledge of spoken and written English

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 according 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, PhD- and other certificates, documents, publication list, etc.) should be submitted as a single pdf-file **until July 30th, 2019** to:

Prof. Dr. Harald Kunstmann
University of Augsburg
Institute of Geography
Chair for Regional Climate and Hydrology
Alter Postweg 118
86159 Augsburg
E-mail: harald.kunstmann@geo.uni-augsburg.de

and to benjamin.fersch@kit.edu.