METEOROLOGISCHES INSTITUT
DER RHEINISCHEN
FRIEDRICH-WILHELMS-UNIVERSITÄT BONN

Pending approval of external funding, the Meteorological Institute of the University of Bonn invites applications for a

Position as Research Associate or Software engineer (100% E13 TV-L)

within the proposed DFG research unit 2589 „Near-Realtime Quantitative Precipitation Estimation and Prediction“ (RealPEP).
RealPEP thrives to achieve significant improvements at all stages along the process chain from Quantitative Precipitation Estimation (QPE), Precipitation Nowcasting (QPN), numerical prediction of quantitative precipitation (QPF) and predicting discharge and potential flash floods in small- to meso-scale catchments (FFP). RealPEP will rely on a multi-sensor data exploitation platform to monitor the precipitation generating atmosphere and tackle urgent science questions to better identify mechanisms that determine the onset, location, intensity, and development of precipitating systems. Developments will be implemented for near-realtime processing in order to be able to mitigate risks to society and ecosystems.

The announced position is designed to build and maintain the data collection and exploitation platform, which combines all cloud and precipitation-related observations and algorithms developed in the research unit. The starting point is a C++ processing framework developed at the German national weather service (Deutscher Wetterdienst, DWD). The successful candidate will enable the framework to digest different data sources and extend it with tools developed in the research unit related especially to QPE and QPN.

The position will be based at the Meteorological Institute of Bonn University, Auf dem Hügel 20, Germany, an internationally known facility for radar research operating in cooperation with Forschungszentrum Jülich GmbH two research polarimetric X-band Doppler weather radars.

Requirements

We welcome applicants preferably with with a Masters degree or PhD in computer sciences, meteorology or physics and strong programming skills in C++. It is expected that the candidate closely cooperates with other scientists in the research unit including also colleagues at DWD, Forschungszentrum Jülich, Free University Berlin, and KIT-Alpine in Garmisch-Partenkirchen. The position will be offered for 3 years starting in January 2019.

Applications

Interested candidates should send a CV, a cover letter describing motivation, background, training and research interests, certificates, and the contact information of two persons, which can be asked for references, as a single PDF of less than 5MB to silke.troemel@uni-bonn.de. The deadline for all applications in RealPEP is **15 September 2018**.

Selection

The selection for the positions will be based solely on merit without regard to gender, religion, national origin, political affiliation, marital or family status or other differences. Among equally qualified candidates, handicapped candidates will be given preference.