

For the InnovationLab “Digitales Geosystem Rheinisches Revier (DG-RR) – Plattform”, an initiative of the Geoverbund ABC/J (<http://www.geoverbund-abcj.de>) in the programme “Strukturwandel Rheinisches Revier” (<https://www.rheinisches-revier.de>), the Institute for Geosciences, Department of Meteorology, of the University of Bonn invites applications for a

postdoctoral radar scientist (E13, 100%, TV-L)

starting as soon as possible. The position is fixed-term for a period of 4 years. The Geoverbund ABC/J is the geoscientific network of the Aachen-Bonn-Cologne/Jülich research area. Together with the partners, the candidate will work on high-resolution monitoring and high-resolution forecasting of the environment in the Rhenish mining area and its development under the conditions of future landscape changes.

The two local polarimetric X-band radars (sites in Bonn and Jülich) are embedded in the operational national polarimetric C-band network of the German Weather Service. They provide locally higher resolution data. Corresponding precipitation and nowcasting products to be further improved by the candidate feed the ParFlow hydrology model for local flood forecasts. Furthermore, the local X-band radar network itself will be further expanded via the inclusion of another adjacent polarimetric X-band radar and new meteorological radar technologies (phased-array radar) to be evaluated. The tasks dedicated to the candidate include also the refinement of the 3D polarimetric compositing strategy and the exploitation of adaptive scanning strategies of the phased-array radar for high-resolved monitoring of intense convective cells.

Requirements

We welcome applicants preferably with a PhD in meteorology or physics and a strong background in radar polarimetry. The candidate will be employed at University of Bonn under supervision of PD Dr. Trömel. Proficient English language skills in oral and written communication are required. It is expected that the candidate closely cooperates with other scientists in the geoscientific network of the Aachen-Bonn-Cologne/Jülich research area.

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.

Applications are reviewed until the position is filled.

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.