



Research Associate / Research software engineer (f/m/x) on Arctic modelling

Institute of Geophysics and Meteorology | CRC TR 172

We are one of the largest and oldest universities in Europe and one of the most important employers in our region. Our broad range of subjects, the dynamic development of our main research areas and our central location in Cologne make us attractive for students and researchers from around the world. We offer a wide range of career opportunities in science, technology, and administration.

This project is funded within the Collaborative Research Centre TR172 Arctic Amplification (AC)³ (www.ac3-tr.de), whose 3rd phase started in January 2024. The position will play a central role in the development and coordination of novel hectometre (cloud-resolving) simulations with the German climate and weather model ICON to better understand the Arctic Amplification.

YOUR TASKS

- » Development and coordination of novel simulations from hectometre to the kilometre scale (cloud resolution) for various case studies in the Arctic system
- » Extension and professionalization of unique ICON-LEM testbed setup for an Arctic location
- » Development of new metrics/diagnostics to evaluate simulations (e.g. of clouds) with observations
- » Processing and management of data from existing and future simulations
- » Support for the community in creating and analysing simulations and existing results as well as conducting training sessions

YOUR PROFILE

- » Master's degree or Doctoral degree in Meteorology, Physics, Geosciences, Mathematics, Computer Science or related fields
- » Strong experience in numerical modelling
- » High interest in supporting the scientists in this project with simulations and in participating in project meetings
- » Knowledge of the Earth system
- » Advanced state-of-the-art programming knowledge (fortran, unix system, HPC)
- » Ability to work in a team as well as independently
- » Very good communication skills in written and spoken English

WE OFFER

- » An inspiring and collaborative national research project
- » A diverse working environment with equal opportunities
- » Support in balancing work and family life
- » Extensive advanced training opportunities
- » Occupational health management offers
- » Flexible working time models
- » Opportunity to work remotely

The University of Cologne promotes equal opportunities and diversity. Women will be considered preferentially in accordance with the Equal Opportunities Act of North Rhine-Westphalia (Landesgleichstellungsgesetz – LGG NRW). We also expressly welcome applications from all suitable candidates regardless of their gender, nationality, ethnic and social origin, religion, disability, age, sexual orientation and identity.

The position is available immediately on a full-time basis (39,83 hours per week). The position is to be filled for a fixed term until 31.12.2027. If the applicant meets the relevant wage requirements and personal qualifications, the salary will be based on remuneration group 13 TV-L of the pay scale for the German public sector.

Please apply online with proof of the required qualifications without a photo under: <https://jobportal.uni-koeln.de>.

The reference number is Wiss2408-02. The application deadline is 07.09.2024.

For further inquiries, please contact Dr Vera Schemann (vera.schemann@uni-koeln.de).