

PhD Graduate Research Student (f/m/d)

Institute for Geophysics und Meteorology

The University of Cologne is one of the largest and most research-intensive universities in Germany, offering a wide range of subjects. With its six faculties and its interfaculty centres, it offers a broad spectrum of scientific disciplines and internationally outstanding profile areas, supported by the administration with its services.

This position is part of the new research group "Energy Meteorology" starting in January 2020 and led by Stephanie Fiedler. The research position involves using newly available climate model simulations of the 6th phase of the coupled model inter-comparison project (CMIP6), performing own model experiments for hypothesis testing, and collaborating within the Hans-Ertel-Centre for Weather Research (HErZ).

YOUR TASKS

- » Perform and interpret atmospheric model experiments on high-performance computers
- » Assess meteorological processes important for desert-dust emission and transport
- » Program analyses of big data sets from models and observations
- » Develop scientific skills including independent critical thinking, testing of scientific hypotheses, and creative problem solving
- » Write and defend scientific publications in international journals of the field

YOUR PROFILE

- » Master of Science or equivalent university degree in meteorology, geophysics, physics or mathematics
- » Very good written and oral English skills
- » Very good meteorological knowledge, ideally with focus on atmospheric dynamics, aerosols and/or climate
- » Knowledge and experience in writing computer software (e.g., python, shell scripts, climate data operators, and/or FORTRAN90/95) for the statistical analysis of big data sets in different formats (e.g., netCDF and/or ASCII) and for the graphical display of the results using a Linux/UNIX computer system
- » Ability to learn running and assessing complex model simulations on high-performance computers
- » Willingness to present research results at international conferences and to work inter-disciplinary, i.e., linking the research in the physical sciences with applications in the energy economic sector
- » Ability for critical and creative thinking

WE OFFER YOU

- » Association with a graduate school with a structured PhD program and tailored opportunities for further education
- » A young, scientifically active research group in a modern institute building
- » Optional possibility to lead tutorials for undergraduate students at university level
- » Cologne's vivid cultural and international scene, and proximity to natural parks for leisure
- » a diverse and fair working environment
- » support in reconciling work and family life
- » flexible working time models
- » extensive advanced training opportunities
- » occupational health management offers

The position is available from now on a part-time basis (75%/29,87 hours per week). It is limited for three years. If the applicant meets the relevant wage requirements and personal qualifications, the salary is based on remuneration group 13 TV-L of the pay scale for the German public sector.

The University of Cologne is committed to equal opportunities and diversity. Women are expressly encouraged to apply and given priority in accordance with the Equal Opportunities Act of North Rhine-Westphalia (Landesgleichstellungsgesetz – LGG NRW). We also expressly welcome applications from people with special needs or of equal status.

Please send your convincing application including a motivation letter, a CV including a list of early achievements, copies of your undergraduate degree certificates, and contact details of two referees who can assess your skills by email (in one pdf-file) with the reference number Wiss1912-08 to Stephanie Fiedler (stephanie.fiedler@uni-koeln.de).

The application deadline is the 16.02.2020.