

2 Positions on Hydrological Modeling (f/m/d)

Institute of Geography

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.

The positions are funded within the new EU HORIZON-RIA project DISTENDER and are particularly suitable for researchers pursuing a doctoral degree.

Within DISTENDER, we aim at developing a framework supporting climate adaptation and mitigation strategies by cross-sectoral integration and at examining multi-scale interactions of climate adaptation and mitigation actions. DISTENDER is a consortium of 31 partners from 14 European countries.

YOUR TASKS

The task of our research group is to assess the vulnerability of selected case study regions regarding floods and droughts. The scope of the positions will be on numerical modeling of hydrological processes particularly with regards to Position a): mesoscale modeling of floods and droughts in selected European watersheds using the SWAT model Position b) small scale modeling of flash floods in urban areas due to extreme precipitation.

YOUR PROFILE

- » M.Sc degree in hydrology, geography or a related discipline
- » Strong analytical, methodological, organizational and communication skills
- » Experience with numerical modeling, GIS and data analysis using statistical software packages
- » Fluency in spoken and written English
- » Motivation to work in an international and interdisciplinary consortium
- » Programming skills are advantageous (esp. R, python, FORTRAN)

WE OFFER YOU

- » Opportunity to complete a PhD research thesis with membership in the Graduate School of Geosciences
- » Strong and inspiring work environment in an international and interdisciplinary context
- » 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
- » Local transport ticket at a discount for UoC employees

The position is available from 01.07.2022 on a part-time basis (75%). It is limited until 30.11.2025. 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 especially encouraged to apply and will be considered preferentially in accordance with the Equal Opportunities Act of North Rhine-Westphalia (Landesgleichstellungsgesetz – LGG NRW). We also expressly welcome applications from people with disabilities / special needs or of equal status.

Please apply online at : <http://jobportal.uni-koeln.de> with proof of the sought-after qualifications. The reference number is Wiss2205-07. The application deadline is by 12.06.2022.

If you have any questions, please contact Prof. Dr. Karl Schneider (karl.schneider@uni-koeln.de).