



Foto: Fabian Stürtz

## Doctoral position (f/m/x) 'Land–Ocean coupling as the driving force of Atacama palaeoclimate'

### Institute of Geology and Mineralogy | Group on Micropalaeontology and Palaeoecology

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.

In its third phase, CRC 1211 wants to deepen our understanding of the mutual evolutionary relationships between the Earth and life in (hyper-)arid desert systems (<https://sfb1211.uni-koeln.de/>). The successful candidate will be a member of the CRC's Integrated Research Training Group, which aims to train a generation of truly interdisciplinary doctoral candidates in the Earth and life sciences – a combination that is becoming increasingly important as global change continues and accelerates.

#### YOUR TASKS

- » Carry out geological fieldwork on marine surface outcrops in the Atacama Desert
- » Conduct geochemical analyses on foraminiferal shells ( $\delta^{18}\text{O}$ ,  $\delta^{13}\text{C}$ ,  $\epsilon\text{Nd}$ , Mg/Ca) to reconstruct properties of the Miocene/Pliocene Humboldt Current System (HCS), in particular sea surface temperatures and source waters of coastal upwelling off northern Chile at the major transitions of the global ocean–climate system
- » Integrate results with terrestrial and model-based paleoclimate research to determine the role of the HCS for Atacama paleoclimate
- » Collaborate with the international, interdisciplinary team of the CRC 1211
- » Publish research results in international scientific journals

#### YOUR PROFILE

- » M.Sc. in Micropalaeontology, Palaeontology or a closely related field
- » Skills in foraminiferal taxonomy and shell geochemistry
- » Interest in paleoceanography and paleoclimatology
- » Experience with geological fieldwork (desirable)

#### WE OFFER

- » The opportunity to work as a researcher and to complete your doctoral degree within an international team of scientists
- » 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

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 from 01.11.2024 on a part-time basis (29,87 hours per week). The position is to be filled for a fixed term until 30.06.2028. 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.

Please apply online with proof of the required qualifications without a photo under: <https://jobportal.uni-koeln.de>. Your application should include a cover letter outlining your motivation and qualifications for the project, CV, copies of certificates, and letter(s) of reference. The reference number is Wiss2408–06. The application deadline is 08.09.2024. For further inquiries, please contact Patrick Grunert ([pgrunert@uni-koeln.de](mailto:pgrunert@uni-koeln.de)) and/or Volker Wennrich ([volker.wennrich@uni-koeln.de](mailto:volker.wennrich@uni-koeln.de)).