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 Institute of Geology and Mineralogy at the University of Cologne, Germany, invites applications for a 3-year PhD project in carbon dynamics in arctic permafrost. The position will be based in the Organic Geochemistry & Radiocarbon group, which is part of the interdisciplinary cosmogenic nuclide-dating center CologneAMS (www.cologneams.uni-koeln.de).

**YOUR TASKS**
- Planning and conducting field measurements and sampling of CO₂ and CH₄ for isotopic analyses
- Analyzing organic matter composition and microbial communities using organic-geochemical techniques
- Developing new and improving existing sampling devices (e.g. molecular sieve cartridges and vacuum systems) for ¹⁴C analysis of CO₂ and CH₄
- Contributing to AMS ¹⁴C analysis in collaboration with the nuclear physics group
- Organizing fieldwork including logistics
- Data analysis and publishing of results in peer-reviewed journals

**YOUR PROFILE**
- M.Sc. in geosciences, environmental sciences, chemistry or related subjects
- Pronounced interest and excellent background in biogeochemical cycles
- Practical experience in isotope geochemical and/or organic geochemical methods
- Willing to participate in several 2-6 week long field campaigns to the Arctic (Siberia, Svalbard)
- Ability to work self-organized as well as in a team
- Strong interest in technical and analytical work (including method development)
- Good knowledge of spoken and written English

**WE OFFER YOU**
- as Ph.D. student you will be member of the graduate school of geosciences (www.geosciences.uni-koeln.de/gsgs.html) or another graduate school
- 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 will start in April/May 2020 on a part-time basis (65% / 25.89 hours per week). It is limited to a term of 3 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 application as a single pdf document (including motivation, CV, certificates, names of 1-2 referees) by email with the reference number Wiss2001-10 to Prof. Dr. Janet Rethemeyer (jretheme@uni-koeln.de).

The application deadline is 20. February 2020.