



## Job Announcement

Young, modern, and research-oriented... the University of Potsdam has firmly established itself within the scientific landscape since its founding in 1991. Nationally and internationally renowned scientists teach and perform research here at Brandenburg's largest university. The University of Potsdam is successful in acquiring third-party funds, delivers outstanding performance in technology and knowledge transfer, and has a very service-oriented administration. With about 22,000 students studying at three campuses – Am Neuen Palais, Griebnitzsee and Golm – the University of Potsdam is a prominent economic factor and engine of development for the region. The University of Potsdam has a total of over 3,000 faculty and staff members and is located in one of Germany's most scenic areas.

The **University of Potsdam, Faculty of Science, Institute of Geosciences**, invites applications for the following position within the group of General Geology:

### Academic Staff Member Requisition No.: 411/2021

The position is available from March 01, 2022. The salary is determined by the collective bargaining agreement for public employees in Germany (TV-L 13 Ost). The position is for 30 hours per week (75% of a full-time contract) and funded by the European Research Council, project "COOLER" (Climatic Controls on Erosion Rates and Relief of Mountains Belts). This is a temporary position limited to a term of 3.5 years in accordance with Section 2 subsection 1 of Fixed-Term Employment Contracts in Science and Research Act (WissZeitVG).

**Context:** This PhD position offers an attractive research environment and strong potential concerning networking, integration into the scientific community, supervision, and cooperation with other PhD fellows and postdocs of the research unit. The successful candidate will be part of the ERC Project "COOLER" (Climatic Controls on Erosion Rates and Relief of Mountains Belts). The main aim of the COOLER project is to advance our understanding of the couplings between tectonic and climatic processes through the development of novel tools and numerical models that record erosion rates and relief changes with unprecedented resolution and link these to potential driving mechanisms. More information on the project can be found here: <http://erc-cooler.eu>.

**Responsibilities:** Within the overall project, your research project will focus on mapping of spatial and temporal patterns of erosion in a glaciated margin setting. Two main questions will be addressed:

- (1) What is the spatial extent of glacial erosion; how focused is selective glacial erosion? This question addresses the significance and evolution of high-elevation / low-relief surfaces in many glacially impacted landscapes, in particular glaciated rifted margins. The question of whether these surfaces have suffered significant amounts of glacial erosion has a direct impact on the broader question of the climatic control on late-Cenozoic sediment flux. We will collect  $^4\text{He}/^3\text{He}$ -elevation profiles from some of Norway's deepest fjords to address these questions.
- (2) Do we see a latitudinal variation in the onset of glacial incision? Evidence for early glaciation exists well before the Quaternary in the North Atlantic and it has recently been suggested that glacial landscape modification started in the middle Miocene in the Lofoten area of northern Scandinavia. Based on new  $^4\text{He}/^3\text{He}$ -elevation profiles from fjord walls in Lofoten combined with geomorphic analyses, we will determine the precise timing of fjord incision and compare this to our findings in southern Norway. Results will be compared with coupled thermo-kinematic / glacial landscape development models including conditions favouring a temperate- to cold-based ice transition.

**Qualifications:**

- MSc in Earth Sciences or a closely related field
- Preferably some experience in thermochronology, in numerical analysis, and/or in field work in remote areas.
- good oral and written communication skills in English
- good interpersonal skills, and are comfortable working in a team.

We offer you varied and challenging tasks in a dynamic team as well as attractive working conditions. Find out more about the wide range of offers and benefits for our employees on the internet at <https://www.uni-potsdam.de/de/arbeiten-an-der-up/>. For further insights into the University of Potsdam, please visit our homepage at <https://www.uni-potsdam.de/en/>. Prof. van der Beek will be happy to provide you with further information regarding the job advertisement via e-mail [vanderbeek@uni-potsdam.de](mailto:vanderbeek@uni-potsdam.de).

Under the laws of the federal state of Brandenburg, employees under this contract are permitted to dedicate at least 33% of their contract time to their own academic qualification.

The University of Potsdam aims to increase the proportion of women in research and teaching and therefore invites qualified female applicants to apply. The University of Potsdam values the diversity of its members and pursues the goals of equal opportunities regardless of gender, nationality, ethnic and social origin, religion/belief, disability, age, sexual orientation or identity. In the case of equal suitability, women within the meaning of Section 7 (4) BbgHG (Brandenburg Higher Education Act) and people with severe disabilities will be given preferential consideration. Applications from abroad and from persons with a migration background are expressly welcome.

**Applicants should send their application materials (including the following components: CV, names of two referees, letter of motivation, a record of academic degrees including a transcript of records) by January 31 2022 at the latest, via email to Prof. Dr. Peter van der Beek ([vanderbeek@uni-potsdam.de](mailto:vanderbeek@uni-potsdam.de)) with the subject line, "Job Title – requisition number: 411/2021."**

Potsdam, 20.12.2021