

At the University of Göttingen -Public Law Foundation-, Geographisches Institut, there is a position as

PhD student (all genders welcome)
Entgeltgruppe 13 TV-L/75%

to be filled. Starting date is 3/1/2024. The position is limited to 36 months.

The position is part of a ANR-DFG funded French-German research initiative and forges a partnership of four research institutes in Germany (Göttingen & GFZ Potsdam) and France (IFP Energies Nouvelles, Paris & Université de Rennes). It is a 36 month fix-term position starting on 1st of March 2024. The salary is based on the German pay grade system for public servants TV-L E13 (75 %). The position is intended for the qualification of young academics and offers the possibility of a doctoral degree.

Your project: Catastrophic floods and sustained droughts will be increasing as our climate changes. It is uncertain how this change will impact the watersheds of major rivers during hydrological extremes. In this PhD you will develop methods to measure *landscape erosion and sediment transport driven by surface and groundwater*. To do this you will deploy a network of seismic and hydrological stations to constrain both surface fluxes and change in subsurface saturation within upland catchments in the Eifel region of Germany. There will be a close collaboration with a paired French PhD student who models the interaction between the surface and the subsurface. This will involve several field missions and an extended period of knowledge exchange at the partner institutes. You will turn seismic data into metrics of shallow and deep subsurface water dynamics, into stream discharge and river sediment transport rates. The expected outcome is a routine and unprecedented insight to the dynamics and impacts of hydrological extremes on inhabited prototype landscapes.

Your profile:

- You hold a MSc or equivalent degree in Geoscience, Geography, Hydrology, Geophysics, Physics or a related discipline, clearly with above-average grade.
- You are interested in the instrumentation of natural landscapes, as well as the management and analysis of the resulting large data sets. You are familiar with scripting languages such as R, Python or Matlab. You have a background in process-oriented geomorphology, river and sediment dynamics, or hydrological principles.
- You are open minded and able to think across disciplines. You have an understanding for the connectedness of dynamic landscapes. You can think and work independently, and are willing to collaborate and communicate within a team of researchers with diverse backgrounds.
- You have a very good command of English. A basic level of French would be of advantage.

Your benefits: This PhD will be at the leading edge of the application of geomorphology, geophysics and sedimentology to one of the most important environmental problems of this century. It will give training in field work, instrumentation, data management, and method development using the latest technologies. Through dedicated national and international collaborations, it will provide opportunities to fuse observations and modelling, and effectively build an interdisciplinary network of fellow researchers. You will be enrolled in the Georg-August University School of Science (GAUSS), safeguarding an efficient soft skill, supervision and tutoring environment. The Faculty offers an interdisciplinary, international environment, in which you can evolve in a creative, supportive, collaborative way.

Application: Please apply by 10 January 2024 with a CV, a short statement on your career and research vision, and copies of relevant certificates, all compiled to a single PDF document. For further information please see the project website www.playgroundearth.de.

The University of Göttingen is an equal opportunities employer and places particular emphasis on fostering career opportunities for women. Qualified women are therefore strongly encouraged to apply in fields in which they are underrepresented. The university has committed itself to being a family-friendly institution and supports their employees in balancing work and family life. The University is particularly committed to the professional participation of severely disabled employees and therefore welcomes applications from severely disabled people. In the case of equal qualifications, applications from people with severe disabilities will be given preference. A disability or equality is to be included in the application in order to protect the interests of the applicant.

Please upload your application in one pdf file including the usual documents until 1/10/2024 on the application portal of the university using this link: <http://obp.uni-goettingen.de/de-de/OBF/Index/74279>. For more information get in touch with Michael Dietze directly via E-Mail: michael.dietze@uni-goettingen.de, Tel. +49 551-39-4570 .

Please note:

With submission of your application, you accept the processing of your applicant data in terms of data-protection law. Further information on the legal basis and data usage is provided in the [Information General Data Protection Regulation \(GDPR\)](#)

