Job posting

Type of position
☒ scientific
☐ administrative

Target group
☒ graduates
☐ post docs
☐ other

Title
Doctoral position in IRTG “Geo-ecosystems in transition on the Tibetan Plateau” (TransTiP): Modelling water fluxes in alpine catchments

Institution
The doctoral researcher will be located at the Leibniz Universität in Hannover (Institute of Fluid Mechanics and Environmental Physics in Civil Engineering, Prof. Dr. Thomas Graf) and work in very close collaboration with the Institute of Geophysics and extraterrestrial Physics, TU Braunschweig and the Institute of Tibetan Plateau Research, Chinese Academy of Sciences

Position
For the start as of February 1, 2021, TransTiP is now offering 1 doctoral position (3 years, 50-100%) in the research topic: Modelling water fluxes on different scales in alpine catchments. As a core task, the researcher will use hydrogeological tools in a permafrost dominated alpine catchment in order to answer a variety of topics including sediment transport, freeze-thaw cycles, small- (Richards flow) and large-scale (groundwater flow) water fluxes, as well as method development to constrain hydrogeophysical parameters (e.g. hydraulic conductivity). This work should go hand in hand with a doctoral research project working on sediment and water transport models using geophysical methods. Furthermore, we encourage the researcher to develop and pursue an own, independent research line fitting the main scientific interests of the host laboratories and further develop leadership skills by closely collaborating with the doctoral researchers of TransTiP. Willingness to perform sampling trips in high-altitude areas and to perform part of the experimental work in collaborating Chinese research institutions (Institute of Tibetan Plateau Research, Chinese Academy of Sciences, Beijing and Lhasa) is mandatory. Project details can be found here: https://www.tu-braunschweig.de/irtg-transtip/research/projects/project-w4

Responsibilities
The program includes a 6-month research stay at our partner institutions in China and provides excellent scientific and transferable skills training at all participating locations. We offer exciting modern research projects in well-equipped laboratories using state-of-the-art technologies, a communicative atmosphere within an excellent scientific network, mutual exchange with a broad range of institutions and participation in international and national conferences and workshops
**Requirements**

Excellent University degree (equivalent diploma/master) with expertise in geophysical sciences, environmental sciences, biological sciences, or related fields
- Strong scientific motivation
- Strong affection to acquire interdisciplinary work and research experience
- Fluent verbal and written English communication skills
- Participation in the qualification program of the Research Training Group
- Test of scientific communication and personal motivation; short-listed applicants will be invited to present and discuss their MSc-thesis work in English

**Application procedure (deadline etc.)**

Start of the position: February 1st 2021
Application deadline: December 12, 2020

Submit your application, consisting of one pdf-document, via email to transtip@tu-braunschweig.de. The application should include the following information: CV, transcripts, certificates, summaries of BSc and MSc thesis, letter of motivation, two reference letters. Further information and eligibility criteria: https://www.tu-braunschweig.de/irtg-transtip/application/how-to-apply

**Contact**

TransTiP Coordination Office: Dr. Nicole Börner, transtip@tu-braunschweig.de, https://www.tu-braunschweig.de/irtg-transtip