Job posting

Type of position

- ✗ scientific
- ☐ administrative

Target group

- ☐ graduates
- ✗ post docs
- ☐ other

Title

10 Doctoral positions offered by International Research Training Group “Geo-ecosystems in transition on the Tibetan Plateau” (TransTiP)

Institution

TransTiP is jointly run by Technische Universität Braunschweig, Leibniz Universität Hannover, and Friedrich Schiller Universität Jena, in cooperation with Max-Planck-Institute for Biogeochemistry, Jena, Geoforschungszentrum Potsdam, Leibniz Institute DSMZ, Braunschweig, Institute of Tibetan Plateau Research, Chinese Academy of Sciences, Beijing, China

Position

For the start as of January 1, 2021, TransTiP is now offering 10 doctoral positions (3 years, 50-100%) in the research areas Sediment fluxes (S), Carbon fluxes (C), Water fluxes and Water quality (W), and Human dimensions of climate change (H):

- S5 Sediment flux analysis based on cosmogenic nuclides (FSUJ)
- S6 Geophysical methods to constrain sediment and water transport models at Alpine Catchments (TUBS)
- S7 Estimation of soil moisture using advanced remote sensing methods (TUBS)
- C6 Assessing land-atmosphere heat and CO2 exchange with Eddy covariance (TUBS, GFZ)
- C4 Resilience of grassland ecosystem services to abiotic stress depending on biodiversity: soil structure and carbon cycling (LUH)
- C5 Soil warming and timescales of carbon cycling in high elevation peatlands (FSUJ, MPI)
- C6 Assessing land-atmosphere heat and CO2 exchange with Eddy covariance (TUBS, GFZ)
- W4 Modelling data-driven impact of atmospheric and hydrogeophysical variables on water fluxes (LUH)
- W5a The deep biosphere in lake sediments: distinguishing deeply buried microbial life and paleolimnological records (TUBS, DSMZ)
- W5b Understanding nitrification in high-altitude lakes (TUBS, DSMZ)
- W6 Population structure and dynamics in freshwater ecosystems under climate change - A combined ecological-molecular approach (TUBS)
- W7 Lipid biomarkers and compound-specific isotope analyses – calibration and 2k (FSUJ)
- H1 Human-environment relations through time - an anthropological approach (TUBS)
Historical changes in the regional flora related to increasing grazing pressures as based on sedimentary ancient DNA (TUBS)

The individual thesis topics and corresponding specific requirements are described at https://www.tu-braunschweig.de/irtg-transtip/vacancies

**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 program: January 1st 2021
Application deadline: May 31, 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, scientific interest and personal aptitude for selected thesis topics (candidates may apply for a primary and secondary choice)
Further information and eligibility criteria: https://www.tu-braunschweig.de/irtg-transtip/application/how-to-apply

Interviews with shortlisted candidates are planned for the period between June 29th and July 3rd, 2020, in Braunschweig during our Candidate Colloquium

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