



## PhD Program between the Freie Universität Berlin (FUB) and the China Scholarship Council (CSC)

### Open PhD Position at Freie Universität Berlin, offered only to Chinese CSC scholarship candidates 2019

*Please Note: this PhD position is only offered to Chinese PhD candidates for the application in the framework of the FUB-CSC PhD Program.*

<b><u>Department/Institute:</u></b>	Department of Earth Sciences, Applied Geography, Environmental Hydrology and Resource Management
<b><u>Subject Area:</u></b>	Applied Physical Geography, Hydrology, Geomorphology
<b><u>Name of Supervisor:</u></b>	Prof. Dr. Achim Schulte
<b><u>Number of Open PhD Positions:</u></b>	1
<b><u>Type of the PhD Study:</u></b>	Full-time
<b><u>Project Title:</u></b>	Hydrological Modelling of Extreme Flash Floods in Small Watersheds

#### **PhD Project Description:**

Every year flash flood events triggered by extreme rainfall cause severe damage in small mountain watersheds. Risk management for such events requires detailed post-events analysis of the cause-effect relationship and the hydrological processes in the watershed. However runoff and discharge information are often missing since river gauges either do not exist in the effected watersheds or are destroyed during the events. However, this problem can be solved by computer-based models, which can be used for an in-depth analysis of such events. The successful applicant will work on the dynamics of extreme flash floods using hydrological and hydrodynamic models and/or develop new models for runoff estimates. The results of this study might be suitable to develop risk management strategies.

#### **Language Requirements:**

IELTS: 6,5 / TOEFL: 95 ibt

#### **Academic Requirements:**

Master degree in Geography, Hydrology, Engineering or related field.  
Programming skills are welcome but not essential.

#### **Information of the Professor or Research Group Leader:**

<http://www.geo.fu-berlin.de/en/geog/fachrichtungen/angeog/index.html>

**Please Note:** In a first step, the complete application should be submitted to the Beijing Office for evaluation by January 4<sup>th</sup>, 2019. Please do not contact the professor before. He/she will get in contact with you after having received the complete application via the Beijing Office in January.

