



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

Open PhD position at FUB for CSC scholarship candidates 2017

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

<u>Department/Institute:</u>	Department of Earth Sciences/Institute of Geological Sciences
<u>Subject area:</u>	Geochemistry
<u>Name of Supervisor:</u>	Prof. Dr. Friedhelm VON BLANCKENBURG (Mr.)
<u>Number of open PhD positions:</u>	1
<u>Type of the PhD Study:</u>	Full-time
<u>Project title:</u>	Mountain erosion quantified with meteoric cosmogenic Be isotopes

PhD Project description:

The PhD project is interdisciplinary between Geochemistry and Geomorphology.

You will use a new technique developed by the PI's group that is worldwide leading in this field: the meteoric cosmogenic isotope ^{10}Be (produced in the atmosphere) and the stable isotope ^9Be (released by weathering) will be used in river sediment and river water to derive catchment-wide erosion and weathering rates. Field work and sampling will be done in a tectonically active mountain. Laboratory work will be done at the German Center for Geosciences GFZ. Nuclide measurements will be done externally by Accelerator Mass Spectrometry (AMS).

We are looking for candidates with an interest in Geomorphology or weathering, with very good skills in analytical geochemical laboratory techniques, and with well-developed mathematical skills.

Please include in your application a statement on how you would use this new technique (relevant publications can be found on our web pages) to determine erosion and weathering rates in active mountain belts.

Language requirements:

Excellent knowledge of English in speaking, reading, and good in writing.
Certificate requirements are IELTS 6.5 or TOEFL 95 ibt

Academic requirements:

Geology, Geochemistry, Geomorphology

Information of the professor or research group leader:

The PhD will be done jointly between FU Geosciences and the GFZ German Center of Geosciences, where the laboratories and offices are located.

www.gfz-potsdam.de/en/section/earth-surface-geochemistry/

Please note:

In a first step the complete application should be submitted to the Beijing Office for evaluation by January 4th, 2017. Please don't contact the professor before. He/She will get in contact with you after having received the complete application in January.