



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.

<u>Department/Institute:</u>	Institute of Geological Science
<u>Subject Area:</u>	Mineralogy-Petrology
<u>Name of Supervisor:</u>	Prof. Dr. Timm John (Project 4)
<u>Number of Open PhD Positions:</u>	1
<u>Type of the PhD Study:</u>	Full-time
<u>Project Title:</u>	Unraveling the origin of the sharp UHP – MP transition at the Yangkou metamorphic complex

PhD Project description:

The Yangkou high-P metamorphic complex (ENE from Qingdao) is a suite of variably eclogitized igneous intrusive rocks ranging from basic to felsic compositions. Interestingly, at one locality, within the transition from a metagabbro into eclogite the recorded pressures increase from ca 1.6 to 3.3. GPa and ends up in a coesite-bearing eclogite over an approximately 30 m distance only. It is planned to unravel the origin of this extremely sharp pressure transition by a detailed mapping and sampling campaign, combined with statistical sound and state-of-the-art petrological and geothermobarometric investigations. The results will be explored with numerical simulations. Beside field work this study will include FE-SEM, EPMA and RAMAN work.

Language requirements:

IELTS: 6,5 oder TOEFL: 95 ibt

Academic requirements:

Requirements: Master Degree in Geosciences or Mineralogy
Desired qualifications: Good knowledge of Mineralogy and Petrology. Being trained in field work and experienced in electron microscopic techniques (e.g., SEM) and analytical methods with high spatial resolutions (e.g., electron microprobe) is of advantage. Basic knowledge in Matlab coding will be helpful, but is not required.

Information of the professor or research group leader:

<http://www.geo.fu-berlin.de/geol/fachrichtungen/geochemhydromin/mineralogie/Personen/John/index.html>

Please Note: In a first step, the complete application should be submitted to the Beijing Office for evaluation by January 4th, 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.