



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

### Open PhD position at FUB for CSC scholarship candidates 2018

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

<b><u>Department/Institute:</u></b>	Mathematik/Informatik
<b><u>Subject area:</u></b>	Dependable Distributed Systems
<b><u>Name of Supervisor:</u></b>	Prof. Dr. Katinka Wolter
<b><u>Number of open PhD positions:</u></b>	1-2
<b><u>Type of the PhD Study:</u></b>	Full-time or Sandwich
<b><u>Project title:</u></b>	Dependability analysis of streaming systems, Performance analysis of distributed ledgers

#### **PhD Project description:**

Streaming applications are very popular today and a number of systems, such as SPARK, STORM, SEEP, etc. exist. Those are complex and heterogeneous systems and their fault-tolerance cannot be specified easily. This project aims at investigating the components of streaming systems and performing experimental as well as model-based stochastic analysis in order to quantify their reliability, performance and also security.

An alternative project investigates the performance and dependability of distributed ledgers. This work would mostly be building a suitable model for the ledger and its load. Some experimental work would also be involved.

#### **Language requirements:**

TestDaf: 16, DSH 2 **OR** IELTS: 6,5, TOEFL: 95 ibt

#### **Academic requirements:**

Candidates should have a Master's degree in Computing or similar, sound knowledge of stochastics and good command of English.

#### **Information of the professor or research group leader (website, awards etc.):**

<http://www.mi.fu-berlin.de/inf/groups/ag-tech/staff/0Current/wolter.html>

**Please note: In a first step, the complete application must be submitted to the Beijing Office for evaluation by January 4th, 2018. 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.**