



## 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.*

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| <b><u>Department/Institute:</u></b>         | Department of Biology, Chemistry, Pharmacy / Institute of Chemistry and Biochemistry – Inorganic Chemistry |
| <b><u>Subject area:</u></b>                 | Quantum Chemistry, Matrix-Isolation Spectroscopy   |
| <b><u>Name of Supervisor:</u></b>           | Prof. Dr. Sebastian Hasenstab-Riedel   |
| <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>                | Investigation of novel metal oxide compounds by matrix-isolation spectroscopy and quantum-chemical methods |

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

Novel metal oxide/fluoride compounds will be prepared by different matrix-isolation techniques such as laser-ablation or thermal evaporation at cryogenic conditions in rare gases at 4K. The species in question will be characterized by UV/VIS, IR and Raman spectroscopy in conjunction with state-of-the-art quantum-chemical calculations.

#### **Language requirements:**

German: TestDaf: 16 or DSH 2 **OR** English: IELTS: 6.5 or TOEFL: 95 ibt.

#### **Academic requirements:**

A Master's degree in chemistry or physics is required.

#### **Information of the professor or research group leader:**

<http://www.bcp.fu-berlin.de/en/chemie/chemie/forschung/InorgChem/agriedel/index.html>

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