



**Postdoc Program between the Freie Universität Berlin
(FUB)
and the China Scholarship Council (CSC)
Open Postdoc position for CSC scholarship candidates 2015**

The postdoc position is only offered to [Chinese](#) who graduated with a [PhD degree from a Chinese university](#).

<u>Department/Institute:</u>	Institute of Chemistry and Biochemistry
<u>Subject area:</u>	Organometallic Chemistry / (Electro) Catalysis/ Small Molecule Activation
<u>Professor / Research Group:</u>	Biprajit Sarkar
<u>Number of open positions:</u>	1
<u>Project title:</u>	Redox-Active Metal Complexes for (Electro) Catalytic Bond Activation and Formation Reactions

Project description:

This project will deal with the (electro)catalytic activation and fixation of small molecules such as H₂, O₂ and CO₂. The candidate will be expected to perform organic and organometallic synthetic chemistry. Additionally, she/he should also be able to perform electrochemical and spectroscopic (EPR, UV-vis-NIR, mass, IR) measurements to test and analyze the catalytic results. Final goals will be the development of efficient (electro)catalysts for the oxidation of H₂, reduction of O₂, and the conversion of CO₂ to useful chemical feedstocks.

Academic requirements:

Candidates should have an excellent background in organic, organometallics and inorganic synthesis, including a sound knowledge of carrying out reactions under inert conditions (Schlenk technique and Glovebox). Additionally, the candidates should be well versed with electrochemical techniques such as cyclic voltammetry and spectroscopic methods such as NMR, IR, UV-vis-NIR, EPR and mass spectrometry.
Written and spoken knowledge of English is essential as well.

Link to professor/contact and further information:

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

Please note:

In a first step the complete application should submit to the Beijing Office for evaluation by November 21, 2014. Please don't contact the professor before. He will get in contact with you after having received the complete application.