



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.

<u>Department/Institute:</u>	Department of Biology, Chemistry, Pharmacy / Institute of Chemistry and Biochemistry
<u>Subject area:</u>	Organic Chemistry
<u>Name of Supervisor:</u>	Jun.-Prof. Matthew Hopkinson
<u>Number of open PhD positions:</u>	1
<u>Type of the PhD Study:</u>	Full-time
<u>Project title:</u>	Visible light activation in organofluorine chemistry

PhD Project description:

Our group is interested in developing new methodologies for organic synthesis focusing mainly on organofluorine compounds useful as pharmaceuticals and agrochemicals. In this regard, we investigate and apply new catalytic strategies that both improve the efficiency and attractiveness of conventional routes to fluorinated molecules and, importantly, introduce innovative reaction pathways and reactivity modes. The PhD project will focus on approaches that employ visible light as an abundant and environmentally benign energy source to install fluorine or fluorine-containing functional groups such as the CF₃ and SCF₃ moieties onto organic molecules. The work will involve experimental studies in an organic synthesis laboratory with analysis of the reactions being conducted using spectroscopic techniques such as NMR, Mass spectrometry and also fluorescence spectroscopy.

Language requirements:

IELTS 6.5 or TOEFL 95 ibt.

Academic requirements:

A Master degree in the field of Chemistry is required ideally with specialization in organic synthesis. A Bachelor degree is not sufficient for a full-time PhD position.

Information of the professor or research group leader:

Prof. Dr. Matthew Hopkinson, Institute of Chemistry and Biochemistry, Takustraße 3, 14195 Berlin.
Website: <http://www.bcp.fu-berlin.de/en/chemie/chemie/forschung/OrgChem/hopkinson/index.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.