

Freie Universität Berlin – Ciência sem Fronteiras (CsF) Program 2013

Open Position for CsF candidates 2013

Department/Institute: Institute of Physics

Subject Area: Dept. Physics

Name of Supervisor: **Prof. Dr. Wolfgang Kuch**

Number of positions: 1

Type of Positions **PhD**

Project Title: Magnetic metal-organic surface structures

Project Description: One of the main challenges for the application of magnetic nanostructures in data storage and processing is their controlled preparation with reproducible and well-defined magnetic properties. A promising route is molecular self assembly of metal-organic networks at surfaces. Such networks, consisting of magnetic atoms coordinated by organic ligands on single-crystal surfaces, will be prepared in the project under ultrahigh vacuum conditions and examined by x-ray spectroscopy at the Berlin synchrotron radiation source BESSY II in a new superconducting magnet set-up that allows measurements at high magnetic fields and low temperatures. The aim is to identify structures with promising properties and to understand the structure-magnetism relation in such networks.

Academic Requirements: Master in experimental physics

Language Requirements: English (fluent; excellent writing skills)

Further Information: <http://www.physik.fu-berlin.de/en/einrichtungen/ag/ag-kuch/index.html>

Further Information on Ciência sem Fronteiras at FU Berlin [http://www.fu-berlin.de/en/sites/brazil/Ciencia sem Fronteiras/index.html](http://www.fu-berlin.de/en/sites/brazil/Ciencia_sem_Fronteiras/index.html)

Application <http://www.csf-alemanha.de/pt/>
While applying online via this website, please make sure to also upload or send a copy of the following documents to saopaulo@fu-berlin.de:
-letter of application;
-academic CV (including former study programs, internships, publications);
-one or two letters of recommendation of distinguished professors

of your university.

Some of the above documents are also required by Capes, but FU Berlin needs an **English or German version of each of the listed documents**. The documents are required by the individual institution responsible for the acceptance process. They may enhance your chances to get accepted. A decision cannot be made unless they have fully been transmitted. For further questions, please contact saopaulo@fu-berlin.de.