

Freie Universität Berlin – Ciência sem Fronteiras (CsF) Program 2015

Open Position for CsF candidates 2015

**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:** Atomic-scale control of magnetic interface coupling between antiferromagnetic and ferromagnetic materials

**Project Description:** The construction of smallest possible magnetic structures receives increased interest in recent years, fueled by demands in data storage and information technologies. Antiferromagnetic materials can exhibit interesting spin structures on the lengthscale of atomic distances. In the project conventional and spin-polarized room-temperature scanning tunneling microscopy and magneto-optical Kerr effect will be used to study well-defined single-crystalline antiferromagnetic layers on the atomic scale.

**Academic Requirements:** Surface Physics, Magnetism. **Master degree in physics including master thesis 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](mailto: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](mailto:saopaulo@fu-berlin.de).