

Department/Institute:	Institute of Physics
Subject Area:	Surface magnetism
Name of Supervisor:	Prof. Dr. Wolfgang Kuch
Number of Positions:	2
Type of Positions	PhD/Promotion (Full)
Project Title:	Surface magnetism
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 basic aspects of the coupling between antiferromagnetic and ferromagnetic layers will be explored on the atomic scale, using single-crystalline systems in ultra-high vacuum to gain fundamental insight. Methods will be conventional and spin-polarized room-temperature scanning tunneling microscopy and magneto-optical Kerr effect.
Academic Requirements:	Excellent master degree in physics
Language Requirements:	English C1
Further Information:	http://www.physik.fu-berlin.de/en/einrichtungen/ag/ag-kuch/index.html
Contact:	kuch@physik.fu-berlin.de
Further Information on Ciência sem Fronteiras at FU Berlin	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.