

The Faculty of Mathematical and Natural Sciences I of the Humboldt-University of Berlin invites applications for the following position:

### **Professorship W3 for "Novel Materials" in Experimental Physics**

to commence by April 1, 2010. Within the scope of women's advancement due to the Berlin masterplan "Ausbildungsoffensive 2008 - 2011" the appointment of a qualified women will be possible due July 1, 2009.

The research profile of the new professorship will focus on three-dimensionally structured and/or multifunctional materials. Examples are hybrid structures comprising different materials (such as organic/inorganic, semiconductor/ferromagnet, semiconductor/superconductor, etc.), complex electronic or photonic structures, or nanocomposites with new properties. The activity could include the growth of the materials or could be based on materials originating from other groups within the department or in associated institutes. Structural characterization can include imaging (TEM, AFM, STM, etc) as well as x-ray scattering using synchrotron sources.

This professorship for "Novel Materials" will be embedded within the area "Condensed Matter Physics", which is focused on the fields of interfaces and thin films, transport and opto-electronics in semiconductors, electronic properties of solids and superconductivity, and solid-state theory. An active collaboration with the other groups within this area including the associated institutes PDI and IKZ is expected. Further, a number of groups attached to other areas such as "Optics/Photonics" and "Macromolecules / Complex Systems" and other external institutes such as MBI, FBH, and HZB(BESSY) will be attractive partners for the "Novel Materials" group. An active interaction with the department of chemistry is also foreseen.

The professor is expected to participate in the general teaching duties of the institute at the undergraduate and graduate level and creatively contribute to the development of the new Master program in physics, especially to the modules Experimental Physics and Condensed Matter Physics.

Applicants must meet the requirements for a university professor as stipulated in § 100 of the "Berliner Hochschulgesetz".

Humboldt-Universität zu Berlin seeks to increase the number of female employees in research and teaching and thus in particular invites qualified female scientists to apply for this vacant position. Physically handicapped persons will be preferred, if they are equally qualified.

Applicants are invited to submit their applications by April 26, 2009. The material should be sent in written form by referring to **code number PR/003/09** to Humboldt-Universität zu Berlin, Dekan der Mathematisch-Naturwissenschaftlichen Fakultät I, Prof. Dr. L.-H. Schön (Sitz: Newtonstr. 14), Unter den Linden 6, 10099 Berlin, as well as in electronic form to <https://www2.physik.hu-berlin.de/ssl/novmat/>. Application materials will not be returned. Therefore, you are requested to send only copies of all documents.