TECHNISCHE UNIVERSITÄT DRESDEN

The scientific activities of the chair "**Materials Science and Nanotechnology**", Institute for Materials Science, **TU Dresden** are focused at developing non conventional strategies for novel materials and devices with intrinsic nanoscale complexity. Biological complexity suggests optimal strategies on how to design bottom-up advanced materials.
The aim of the new interdisciplinary research group "InnovaSens" to be established in the framework of the European Social Fund (ESF) in Federal State Saxony is to gain a comprehensive multiscale understanding of the underlying principles for the **development of nanowire-based biosensor systems.**
For this group, which will be embedded in the interdisciplinary scientific environment of the chair "Materials Science and Nanotechnology", **TU Dresden** offers the position of a

Ph. D. student

to experimentally investigate the local interface between semiconducting surfaces and single (bio)molecules by scanning probe microscopy at low temperature.

The positions will be available from January 2010 and funded for a period of three years. The salary of the successful applicant will be according to a full scientist position (E 13 TV-L 100%).

For an optimal scientific training, students will be provided with state-of-the-art research methodologies and equipment and will be trained in inter- and crossdisciplinary work via lectures and seminars in various fields related to the scientific scope of the research group. An academic degree in Physics, Chemistry, Materials Science, Electrical Engineering or a related subject is required.
The ability to work in a team and to perform interdisciplinary research and cooperation with academic and industrial partners and good communication skills in English are expected.

According to the regulations of the European Social Fund, in order to promote young researchers, successful applicants must not be older than 35 years (relevant deadline: 30.04.2009) and their academic degree must have been completed later than 30.04.2008.
Applications from women are particularly welcome. The same applies to disabled people.

Applicants should send their application documents, including a letter of motivation, Curriculum Vitæ, a list of publications as soon as possible by regular mail to
Prof. Dr. Gianaurelio Cuniberti, Institut für Werkstoffwissenschaft, TU Dresden, 01062 Dresden, Germany
or as a single pdf file to jobs@nano.tu-dresden.de, Subject: "Application ESF InnovaSens STM". Upon request, **two** letters of reference have to be sent to the same Email address.
For more information please refer to http://nano.tu-dresden.de/joinus/.