

At the **Institute of Materials Science, Chair of Materials Science and Nanotechnology a**

PhD Student position (E 13 TV-L)

is available **as soon as possible** in the framework of a NSF-DFG German-US cooperation project.

This fixed-term position with 75 % of the fulltime weekly hours is funded for a period of two years, with possibility of extension. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz – WissZeitVG).

The scientific activities of the Chair of Materials Science and Nanotechnology (Prof. G. Cuniberti), Institute of Materials Science, are focused on developing non conventional strategies for novel materials and devices with intrinsic nanoscale complexity.

Tasks: The successful candidate will investigate the electronic, mechanical, and transport properties of single organic molecules on surfaces for applications in organic and molecular electronics by scanning probe microscopy at low temperature.

Requirements: For a successful application an excellent academic degree in Physics, Chemistry, Materials Science, or a closely related area is required. Excellent communication and writing skills in English are also required, especially with respect to the communication with cooperation partners in Germany and the United States. The Molecular Electronics group headed by Dr. Francesca Moresco at the Chair of Materials Science and Nanotechnology is part of several German and European networks promoting the development of molecular and organic electronics, like the Cluster of Excellence “Center for Advancing Electronics Dresden” (<http://tu-dresden.de/cfaed>), the EU Project AtMol (<http://www.atmol.eu>), and the International Helmholtz Research School NANONET (<http://www.ihrs-nanonet.de>). The successful candidate is expected to actively collaborate to these multidisciplinary projects. Experience in scanning probe microscopy, experimental surface science, or ultra high vacuum (UHV) are desirable.

Please visit <http://nano.tu-dresden.de/> for more information on our activities.

Applications from women are particularly welcome. The same applies to disabled people. Applicants should send their application documents, including a letter of motivation, Curriculum Vitae with the complete publication record and two reference letters until **06.08.2013** (stamped arrival date of the university central mail service applies) to

TU Dresden

Fakultät Maschinenwesen, Institut für Werkstoffwissenschaft

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or as **a single pdf file** to jobs@nano.tu-dresden.de, Subject: "Application MWN, your_Surname"
(Please note: We are currently not able to receive electronically signed and encrypted data).