



WHO CAN APPLY?

The IHRS NANONET is open to highly qualified and motivated applicants of all nationalities. Applicants must hold or be about to earn a MSc degree (or equivalent) in physics, chemistry, electrical engineering, or materials science, and should have an adequate proficiency of English.

Successful candidates will obtain financial support to cover their living expenses in Germany and for their research for a period of three years.

HOW TO APPLY?

Please visit our website for detailed descriptions on the application and selection procedures, and to access our online application platform.

For further information and to apply:

www.ihrs-nanonet.de

LOCATION

Dresden is the capital city of the Free State of Saxony in Germany. The city is characterized by a unique scientific and technological environment with an excellent cluster of academic research institutions and hosting the largest microelectronics cluster in Europe. Dresden is also well-known by its excellent quality of life, with its citizens enjoying world-famous art treasures, a vibrant cultural scene as well as a large number of attractive options for the entire family.

CONTACT US

IHRS NANONET coordinator

Dr. Ana Cordeiro

Phone: +49 351 260 2049 · E-Mail: nanonet@hzdr.de

Helmholtz-Zentrum Dresden-Rossendorf

Bautzner Landstraße 400

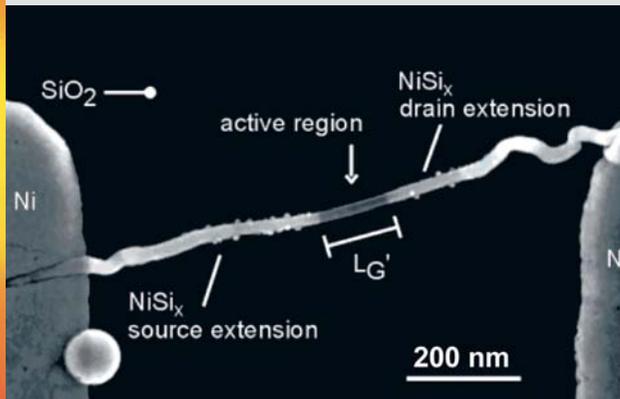
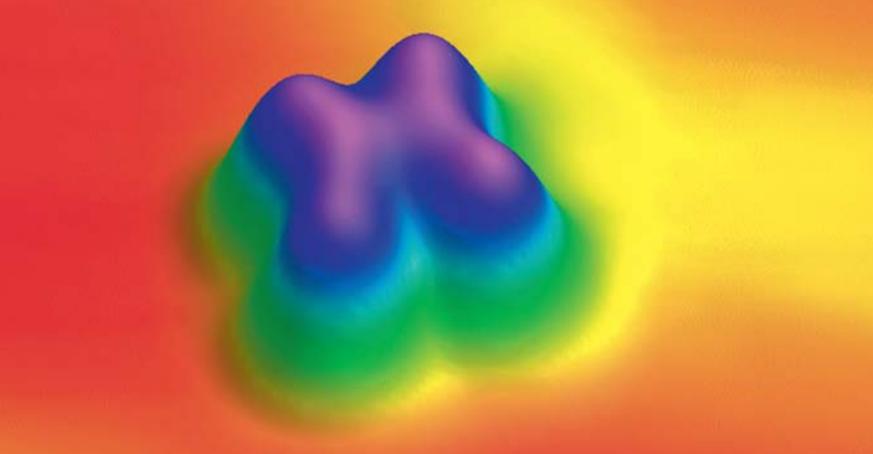
01328 Dresden, Germany



INTERNATIONAL HELMHOLTZ RESEARCH SCHOOL FOR NANOELECTRONIC NETWORKS

 **HELMHOLTZ**
ZENTRUM DRESDEN
ROSSENDORF

NANONET



ABOUT US

The International Helmholtz Research School for Nanoelectronic Networks (NANO^{NET}) is an interdisciplinary research school in the field of molecular electronics open to outstanding students of all nationalities with backgrounds in physics, chemistry, electrical engineering, and materials science.

The research school prepares PhD students for their doctoral exam providing an international and interdisciplinary working environment, excellent research conditions and a well-structured scientific curriculum to meet the increasingly broad skill demands in science and industry. The official language of the IHRS NANO^{NET} is English.



The IHRS NANO^{NET} is an initiative of the Helmholtz-Zentrum Dresden-Rossendorf (HZDR) in a joint collaboration with the Technische Universität Dresden (TUD), Leibniz Institute of Polymer Research Dresden (IPF), Fraunhofer Institute for Nondestructive Testing (IZFP) and the Nanoelectronics Materials Laboratory gGmbH (NaMLab), and is supported by the Helmholtz Association.



NANO^{NET} GOALS

The NANO^{NET} research school aims at developing new concepts for the integration of nanoelectronic building blocks into larger circuits. To achieve this purpose, the IHRS NANO^{NET} uses an interdisciplinary approach including research projects combining experimental and theoretical physics, chemistry and materials science.

The IHRS NANO^{NET} PROGRAMME covers the following topics:

- Molecular synthesis
- Electrical contacting of nanoscale electronics
- Modelling of properties on an atomistic level

DOCTORAL PROGRAMME

The graduate programme of the IHRS NANO^{NET} includes

- Structured mentoring through a Thesis Advisory Committee
- Introductory and specialized lectures adapted to the needs of the doctoral candidates
- Intensive transferable skills courses (e.g. communication, leadership)
- Access to an excellent research environment and infrastructure within the NANO^{NET} consortium and partner institutions
- Sponsored participation in conferences and research visits; exchange with international experts
- Participation in the NANO^{NET} Annual Summer School and Workshop

