Phd positions (f/m/d)

International Max Planck Research School for Science and Technology of Nano-Systems (IMPRS-STNS)

COURSE CONTENT

The IMPRS-STNS is a **joint programme** between the Max Planck Institute of Microstructure Physics, the Martin Luther University Halle-Wittenberg, and the Fraunhofer Institute for Microstructure of Materials that are located in Halle, Germany. We invite outstanding young scientists to apply for one of 5 available PhD positions. Prospective PhD candidates will carry out research into novel, atomically engineered materials for nano-systems - tackling grand societal challenges in the fields of information technology and sustainability.

IMPRS-STNS provides a framework for a superior PhD experience. For example, IMPRS-STNS PhD students admitted into the school have an opportunity to apply for internships of up to 3 months long in our partner universities in Asia, North America, and Europe. IMPRS-STNS particularly emphasizes interdisciplinary research, as well as providing career counseling and specialized courses, for example, in entrepreneurship and technology transfer.

RESEARCH AREAS

Research areas include: Spintronics | Oxides and Interfaces | Atomically Engineered Materials | Computational Materials Discovery | Cognitive Devices and Bio-Inspired Materials | Topological Materials | Polymers under Constraint | Non-Equilibrium Materials | Routes to Room Temperature Superconductivity.

The young scientists accepted into IMPRS-ICNS will receive a doctoral contract to support them during their PhD. Candidates are selected in a highly competitive procedure. The language of the IMPRS-STNS is English.

EDUCATIONAL ORGANISATION

IMPRS-STNS is a dynamic school that tailors the teaching to each doctoral student individually. In addition to their research projects, IMPRS-STNS graduates are given the opportunity to take part in a complementary training programme. These activities include: Seminars, lectures within the field of science and technology of nano-systems, Thesis Advisory Committee (TAC), mentoring, complementary skills training, career counselling, German language courses, yearly retreats, summer/ winter schools, secondments, workshops, events organized by PhD candidates.

YOUR PROFILE

- Physicist, engineer or materials scientist, with a Master's degree
- Strong team player who excels in a fast paced, highly dynamic, interdisciplinary environment
- Excellent communication skills with fluency in English

WE OFFER

- Upon successful completion two complementary certificates – Doctoral degree from the university and an additional certificate for your educational training through the Max-Planck IMPRS-STNS
- A world-leading research infrastructure with state of the art capabilities
- Remuneration and social benefits according to TVöD
- Doctoral contract for 3 years

YOUR APPLICATION

- In English can be uploaded as a single pdf file at our **application website** with reference to **IMPRS_STNS_004.**
- We aim to employ more persons with disabilities. Applications from persons with disabilities are explicitly encouraged and seek to increase the number of women in those areas where they are underrepresented and therefore explicitly encourages women to apply.
- For more information please visit **http://www.mpi-halle.mpg.de/imprs-stns**

MAX-PLANCK-GESELLSCHAFT

Fraunhofer IMWS

MARTIN-LUTHER-UNIVERSITÄT
HALLE-WITTENBERG