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Doctorate

**IMPRS for Science and Technology of Nano-Systems**

Max Planck Institute of Microstructure Physics • Halle (Saale)

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### Overview

| **Degree** | Doctoral degree (Dr rer nat or Dr Ing) |
| **Doctoral degree or degree awarded by** | Martin Luther University Halle Wittenberg |
| **Teaching language** | English |
| **Languages** | Courses are held in English. Participants can choose to write their doctoral theses in English. |
| **Programme duration** | 6 semesters |
| **Beginning** | Only for doctoral programmes: any time |
| **Application deadline** | There is no application deadline. Please refer to [http://www.mpi-halle.mpg.de/imprs-stns](http://www.mpi-halle.mpg.de/imprs-stns) for details. |
| **Tuition fees per semester in EUR** | None |
| **Combined Master’s degree / PhD programme** | No |
| **Joint degree / double degree programme** | No |
| **Description/content** | The International Max Planck Research School links the Max Planck Institute of Microstructure Physics with the Martin Luther University Halle-Wittenberg and the Fraunhofer Institute for Microstructure of Materials and Systems, Halle, to carry out research into novel atomically engineered materials for nanosystems - tackling grand societal challenges in the fields of information technology and sustainability. The nine key advanced research areas include the following: Spintronics, Oxides and Interfaces, Atomically Engineered Materials, Computational Materials Discovery, Cognitive Devices and Bio-Inspired Materials, Topological Materials, Polymers under Constraint, Non-Equilibrium Materials, and Routes to Room Temperature Superconductivity. IMPRS-STNS also provides means to strengthen links with partner universities in Asia, North America, and Europe by funding international exchange internships for PhD students admitted to |
IMPRS-STNS. A buddy programme and stipends for foreign PhD students to carry out up to six months of their research in Halle are foreseen. In addition, we will foster interdisciplinary research, provide courses in entrepreneurship, offer support with technology transfer, and provide career counselling for admitted PhD students.

We support excellent young scientists on their way to a doctorate with a doctoral contract to cover their living expenses. Candidates are selected on a competitive basis. English is the teaching language in all courses. It is also spoken in the laboratories.

**Course Details**

**Course 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 the following:

- 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 organised by students

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<thead>
<tr>
<th>A Diploma supplement will be issued</th>
<th>Yes</th>
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<td><strong>International elements</strong></td>
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<td>- International guest lecturers</td>
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<td>- Language training provided</td>
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<tr>
<td>- Training in intercultural skills</td>
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<tr>
<td>- Projects with partners in Germany and abroad</td>
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<th>Integrated internships</th>
<th>Doctoral candidates are encouraged to spend some time abroad during the PhD programme.</th>
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<td><strong>Special promotion / funding of the programme</strong></td>
<td>IMPRS</td>
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<td><strong>Course-specific, integrated German language courses</strong></td>
<td>Yes</td>
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<tr>
<td><strong>Course-specific, integrated English language courses</strong></td>
<td>No</td>
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**Costs / Funding**

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<tr>
<th>Tuition fees per semester in EUR</th>
<th>None</th>
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**Semester contribution**  
200 EUR per semester

**Costs of living**  
The costs of living amount to 300 EUR per month. Rent is not included in this estimate. Rent for an apartment usually amounts to an additional 300-400 EUR.

**Funding opportunities within the university**  
Yes

**Description of the above-mentioned funding opportunities within the university**  
IMPRS-STNS students can get funded through a contract.

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**Requirements / Registration**

**Academic admission requirements**  
A very good Master’s degree in physics, chemistry, materials sciences, engineering, or in a related field

**Language requirements**  
A very good command of the English language is mandatory and must be proven with a standard English test (TOEFL or similar).

**Application deadline**  
There is no application deadline. Please refer to [http://www.mpi-halle.mpg.de/imprs-stns](http://www.mpi-halle.mpg.de/imprs-stns) for details.

**Submit application to**  
[http://www.mpi-halle.mpg.de/imprs-stns](http://www.mpi-halle.mpg.de/imprs-stns)

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**Services**

**Accommodation**  
Members of IMPRS-STNS can find accommodation in one of the student residences, the guest houses of the MPG, or privately. Halle has an abundance of living space, and rents are fairly cheap. A suitable one room flat can be found for about 250-300 EUR per month.

**Structured research and supervision**  
Yes

**Research training / discussion**  
Yes

**Career advisory service**  
We do offer a career advisory service to our doctoral students. A special focus is placed on the transition to the first job after the completion of the doctoral degree.

**Specific specialist or non-specialist support for international students and doctoral candidates**  
- Buddy programme
- Specialist counselling
- Visa matters
Martin Luther University Halle-Wittenberg (MLU) offers a wide range of academic subjects in the humanities, the social sciences, the natural sciences, and medicine. The oldest and largest university in Saxony-Anhalt was created in 1817 when the University of Wittenberg (founded in 1502) merged with Friedrichs University Halle (founded in 1694). Today the university has around 20,000 students and 340 professors (http://www.uni-halle.de/universitaet/geschichte).

Location

Halle is a medium-sized town in the middle of Germany with some 240,000 inhabitants. The town is located on the banks of the river Saale. First mentioned in the ninth century, Halle owed its wealth mainly to salt production.

The university was founded in 1694 and flourished quickly. Shortly afterwards a second educational centre was established in the form of Francke’s Foundations. Starting out with an orphanage, August Hermann Francke soon built a schooling town in Halle.
Burg Giebichenstein, an art and design college, was founded in 1958 in a castle built in the 10th century.

Georg Friedrich Händel was born in Halle in 1685 and lived there until 1703. This is commemorated especially in summer during the Händel Festival.

Today, Halle is the largest town in the federal state of Saxony-Anhalt, with industry and service companies, but also a large range of recreational activities.

Apart from Martin Luther University and the College of Art and Design at Burg Giebichenstein, the town hosts a number of other scientific and technological institutes.

Contact

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Disclaimer
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