Deutscher Akademischer Austauschdienst
German Academic Exchange Service

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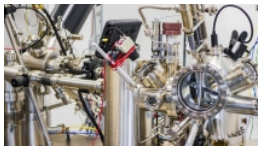
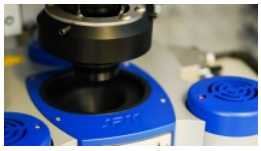
Master's degree

Master of Science in Materials Science

Paderborn University • Paderborn


Overview

Degree	Master of Science
Teaching language	• English
Languages	Courses and lectures are held in English only.
Programme duration	4 semesters
Beginning	Winter semester
Application deadline	31 May for international applicants (21 September for applications from Germany)
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	Modern materials are the basis of technological innovations in important fields such as energy, health, mobility, and information technology. The Master's programme in Materials Science offers the possibility especially, but not exclusively, for students with a Bachelor's degree in physics, chemistry, chemical engineering, or materials science to expand and deepen their knowledge in the experimental and theoretical aspects of the fields of materials science. The particular strength of the Paderborn programme is the specialisation in modern functional materials with a strong background of application. It provides the possibility for an early specialisation in one of the prominent research areas at the University of Paderborn. The Master's programme in Materials Science is located at the interface between the department of chemistry and physics. It is complemented by contents from the fields of mechanical engineering, chemical engineering, and electrical engineering courses. The programme deliberately emphasises the scientific aspects of the synthesis, structure, processing, and functionality of new materials.

Course Details

Course organisation	The programme consists of lectures in different fields of materials science, which are complemented by additional exercises. Multidisciplinary seminars complement the lectures. The theoretical knowledge acquired in lectures, exercises, and seminars will be applied in lab courses equipped with experiments of current cutting-edge research. The first two semesters (60 ECTS) consist of compulsory courses (lecture, exercises, practical course), which include the fundamental concepts of materials science. These courses are complemented by elective courses, which allow students to deepen their knowledge in four advanced areas: Materials Analysis, Materials Processing, Functional Materials, and Computational Materials Science. In the third semester (30 ECTS), the elective courses will continue, accompanied by a lab course and a research-oriented project-based course in a working group. A seminar on current topics of materials science will prepare students for this. Also, a few courses in general studies can be chosen freely from the university's complete lecture catalogue. For the Master's thesis in the fourth semester (30 ECTS), you will join a research group within one of the four departments and work on a supervised individual research project that will form the basis for your Master's thesis. After completion of the research work, the results will be submitted in a written thesis at the end of the semester. Subsequently, the thesis work will be defended in a concluding colloquium. » PDF Download
A Diploma supplement will be issued	Yes
International elements	• Language training provided
Course-specific, integrated German language courses	No
Course-specific, integrated English language courses	No

Costs / Funding

Tuition fees per semester in EUR	None
Semester contribution	Approx. 290 EUR per semester The fee includes a semester ticket covering all regional public transport in the state of North Rhine-Westphalia.
Costs of living	Approx. 650 EUR per month is needed to cover personal expenses.
Funding opportunities within the university	No

Requirements / Registration

Academic admission requirements	Bachelor's degree in chemistry, physics, materials science, mechanical/electrical engineering under certain constraints (or equivalent) Furthermore, a GRE score report for all non-EU applicants is compulsory.
Language requirements	Applicants must provide proof of their English skills: TOEFL 550 (paper-based) or 79 (Internet-based) or equivalent (IELTS).
Application deadline	31 May for international applicants (21 September for applications from Germany)
Submit application to	Universität Paderborn c/o uni-assist e.V. 11507 Berlin Germany

Services

Possibility of finding part-time employment	Students can obtain paid jobs working as tutors, helping with technical work, or supporting research projects within one of the research groups of the department.
Accommodation	The University of Paderborn offers several student halls of residence on or near campus. As an alternative, one can look for a room or an apartment on the private market. The typical rent is between 200 EUR and 280 EUR per month.
Support for international students and doctoral candidates	• Welcome event • Tutors

Our Partners

Paderborn University

Aerial view of Paderborn University

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http://www.uni-paderborn.de

University location

https://www.uni-paderborn.de/en/studies/international-students

Contact

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