



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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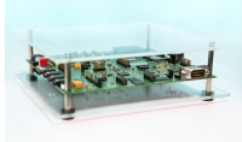
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Master's degree



Master of Science in Computer Engineering

Paderborn University • Paderborn



Overview

Degree	Master of Science in Computer Engineering
Teaching language	<ul style="list-style-type: none">English
Languages	English
Programme duration	4 semesters
Beginning	Winter and summer semester
Application deadline	Winter semester (starting in October): 31 May Summer semester (starting in April): 30 November
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	<p>Computer engineering, as a key discipline of the information society, requires knowledge and skills from both computer science and electrical engineering. Computer engineering at the University of Paderborn is an innovative and research-oriented study programme with an internationally established curriculum.</p> <p>The curriculum starts with mandatory modules in computer science (Advanced Computer Architecture, Networked Embedded Systems) and electrical engineering (Circuit and System Design, Statistical Signal Processing). Students then choose a specialisation out of the following six focus areas:</p> <ul style="list-style-type: none">• Embedded Systems• Nano/Microelectronics• Computer Systems• Communication and Networks• Signal, Image and Speech Processing• Control and Automation

Students have to earn a certain number of credit points (CP) by completing modules from their focus area and, additionally, a smaller number of CP by taking other elective courses according to their interests.

Furthermore, students have to complete the Scientific Work module, which comprises a seminar and an elective course in the area of languages, scientific writing or presentation.

A main element of the Master's programme is the Project Group module. Here, teams of about eight to 16 students work together on a research-related project for one year.

The final part of the programme is the Master's project, including a work plan and the preparation and writing of the Master's thesis, which usually takes place during the last semester.

The Master in Computer Engineering is a joint offer by our Departments of Computer Science and Electrical Engineering & Information Technology. Both departments regularly receive top rankings in Germany. Our research strength allows students to obtain the fundamental background necessary for undertaking a PhD. Our close cooperation with industrial partners guarantees practice-oriented lectures and provides students with many opportunities to get in contact with prospective future employers. We provide a stimulating atmosphere in an international and interdisciplinary study environment. Our well-structured programme, the excellent equipment and the intensive interaction between students and faculty ensure successful graduation.

Course Details

Course organisation	<p>The programme is organised into the following modules (courses), with an overall workload of 120 ECTS credit points (CP):</p> <ol style="list-style-type: none">1. Two mandatory modules in Computer Science (2 x 6 ECTS CP)2. Two mandatory modules in Electrical Engineering (2 x 6 ECTS CP)3. Elective modules in one focus area (24 ECTS CP)4. Further elective modules (18 ECTS CP)5. Scientific Work module (6 ECTS CP)6. Project Group module (18 ECTS CP)7. Master's project module (30 ECTS CP)
A Diploma supplement will be issued	Yes
International elements	<ul style="list-style-type: none">• International guest lecturers• Specialist literature in other languages
Integrated internships	Internships are not a required part of the Master's programme.
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. 310 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. 850 EUR per month is needed to cover personal expenses.
Funding opportunities within the university	No

Requirements / Registration

Academic admission requirements	BSc in Computer Engineering or a related subject with a very good CGPA Alternatively, a GRE test with a score of at least 157 points in "Qualitative Reasoning" and at least 4.0 in "Analytical Writing"
Language requirements	Applicants must provide proof of their English skills at level C1 of the European Framework of Reference for Languages, e.g., TOEFL iBT 80, TOEFL (paper-based) 550, Cambridge Certificate of Advanced English (CAE) B, or British Council IELTS minimum band 6.5. Applicants holding a Bachelor's degree from an institution in Australia, Great Britain, Ireland, Canada, New Zealand, or the USA do not have to provide proof of their English skills.
Application deadline	Winter semester (starting in October): 31 May Summer semester (starting in April): 30 November
Submit application to	https://www.uni-assist.de/en/

Services

Possibility of finding part-time employment	There are many opportunities for students to find employment, either as one of the university's student assistants (for research or teaching) or in one of the many positions outside the university.
Accommodation	University dormitory Dormitories of the "Studentenwerk Paderborn" (affiliated with Paderborn University): http://www.studentenwerk-pb.de/en/housing/ Private dormitory Dormitory of b.i.b. International College: https://www.bib.de/standorte/paderborn/campus/wohnheim.html Web portals: WG-Gesucht: http://www.wg-gesucht.de Studenten-WG: http://www.studenten-wg.de Immobilienscout24: http://www.immobilienscout24.de Nuroa: http://www.nuroa.de/mieten/

Support for international students and doctoral candidates

- Welcome event
- Specialist counselling

Paderborn University



Campus

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Paderborn University is a campus university within walking distance to the city centre. A large number of student residences are located on campus. The campus provides a wide range of services and facilities, including an excellent "Mensa" (canteen), sports facilities, and a small theatre.



University location

Despite its very modern service- and entertainment-oriented appeal, Paderborn also offers opportunities for the historically inclined, such as a 700-year-old cathedral overlooking the city centre. Paderborn is known to be a very safe place, and it also offers lots of attractions and opportunities for students to enjoy themselves. The most famous among the attractions is the annual "Libori" funfair, but you might also enjoy the quieter Christmas market in December.

Contact

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🌐 Course website: <https://cs.uni-paderborn.de/en/studies/degree-programs/computer-engineering>

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🐦 https://twitter.com/compscience_upb

📷 https://www.instagram.com/uni_paderborn

📺 <https://www.youtube.com/user/FakultaetEIM>

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International Programmes in Germany - Database

www.daad.de/international-programmes
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Editor

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www.gate-germany.de

Disclaimer

The data used for this database was collected and analysed in good faith and with due diligence. The DAAD and the Content5 AG accept no liability for the correctness of the data contained in the "International Programmes in Germany" and "Language and Short Courses in Germany".

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