



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



## Table of Contents

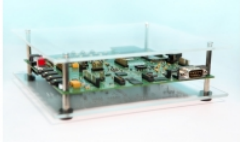
<b>Master's degree .....</b>	<b>2</b>
<b>Master of Science in Computer Engineering • Paderborn University • Paderborn.....</b>	<b>2</b>

# Master's degree



## Master of Science in Computer Engineering

Paderborn University • Paderborn



## Overview

<b>Degree</b>	Master of Science in Computer Engineering
<b>Teaching language</b>	<ul style="list-style-type: none"><li>English</li></ul>
<b>Languages</b>	English
<b>Programme duration</b>	4 semesters
<b>Beginning</b>	Winter and summer semester
<b>Application deadline</b>	Winter semester (starting in October): 31 May Summer semester (starting in April): 30 November
<b>Tuition fees per semester in EUR</b>	None
<b>Combined Master's degree / PhD programme</b>	No
<b>Joint degree / double degree programme</b>	No
<b>Description/content</b>	<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"><li>• Embedded Systems</li><li>• Nano/Microelectronics</li><li>• Computer Systems</li><li>• Communication and Networks</li><li>• Signal, Image and Speech Processing</li><li>• Control and Automation</li></ul>

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

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

© Universität Paderborn

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

## Paderborn University

Department of Computer Science and Department of Electrical Engineering

Prof Dr Sybille Hellebrand

Warburgerstraße 100  
33098 Paderborn

Tel. +49 5251603002

✉ [sybille.hellebrand@uni-paderborn.de](mailto:sybille.hellebrand@uni-paderborn.de)

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

Prof Dr Marco Platzner

Tel. +49 5251605250

✉ [Email](#)

📘 <https://www.facebook.com/unipaderborn>

🐦 [https://twitter.com/compscience\\_upb](https://twitter.com/compscience_upb)

📷 [https://www.instagram.com/uni\\_paderborn](https://www.instagram.com/uni_paderborn)

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

Last update 24.07.2024 21:15:12

# International Programmes in Germany - Database

[www.daad.de/international-programmes](http://www.daad.de/international-programmes)

[www.daad.de/sommerkurse](http://www.daad.de/sommerkurse)

## Editor

DAAD - Deutscher Akademischer Austauschdienst e.V.

German Academic Exchange Service

Section K23 – Information on Studying in Germany

Kennedyallee 50

D-53175 Bonn

[www.daad.de](http://www.daad.de)

## GATE-Germany

Consortium for International Higher Education Marketing

[www.gate-germany.de](http://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".

The publication is funded by the German Federal Ministry of Education and Research and by contributions of the participating German institutions of higher education.



Federal Ministry  
of Education  
and Research