



10 GOOD REASONS FOR PADERBORN UNIVERSITY

1. Professional – We work with you towards the successful completion of your degree. But finding a good job is just as important. We provide you with opportunities to network with regional and national companies and research institutes, both during and after your studies.

2. Affordable – There are no tuition fees in North Rhine-Westphalia, Germany, not even for international students. Our state-funded system offers an excellent standard of higher education. And while our degrees are easy on your finances,

they are not as easy on your brain: you will need to study hard!

3. Compact – A campus university means that you will find everything you need (library, housing, cafeteria, shopping, entertainment) within walking distance.

4. Safe – No one gets lost in Paderborn: it is a safe and tolerant city. Most people can communicate in English and are happy to help you. You do not need to worry about walking home alone.

MASTER PROGRAM COMPUTER SCIENCE

Contact

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www.cs.upb.de/en/master



9. Practical – The companies located in and around Paderborn offer numerous opportunities for internships as well as topics for a thesis conducted in cooperation with the university. Similarly, within the university, there is ample demand for both teaching and research assistants – teach younger students or work at the forefront of research. We will help you gain your first job experience during your studies.

10. Fair – All students have equal opportunities at Paderborn University. There is also very little hierarchy between students and professors. Students are expected to be independent and to manage their own course of study. You will easily receive the support you need if you come prepared and motivated.

5. Supportive – You're given plenty of personalized support, starting with your application here. Every student's situation is unique and we try to find answers for everyone.

6. Personal – You will never be an anonymous student here. There are counselors in the faculties and in the International Office who are on hand to help you in any way you need. Additionally, international student organizations provide study support as well as social events.

7. Communicative – International students are invited to attend German-language courses before they commence their studies. For our English-language Master degree programs, you do not need to speak German, but a little knowledge of the language will help make your stay here more comfortable.

8. Comfortable – Paderborn offers high-quality student housing at reasonable prices. The International Office supports you in finding a place to live that meets your needs.



WELCOME TO THE WORLD OF COMPUTER SCIENCE

We offer an excellent Master's program in computer science in a world-leading research institute. With currently 1300 students enrolled in our computer science degree program and a scientific staff of 25 professors, the university provides an attractive environment for your studies, based upon a close cooperation of students and teaching staff. The Department of Computer Science regularly acquires top ranks in Germany and has developed a high international reputation.

We are currently attracting about 5.7 million Euros of external funding per year, ranging from a national flagship project (a DFG Collaborative Research Center) over European, national and regional funding to direct cooperation with industry. We undertake both basic and applied research in our department as well as in associated research institutes like the

SICP or the PC². This exposes our students to new fundamental discoveries as well as up-and-coming developments in the IT industry. All this work of course influences and shapes the content of our courses, ensuring up-to-date teaching programs.

Studying computer science in Paderborn therefore enables you to learn about and take part in the most recent thrilling developments in computer science. While computer science is a young discipline, it has advanced to one of the most exciting research areas and is one of the supporting pillars of our information society. We would like to make you one of the leading architects, developers or researchers of computing systems.

Paderborn University acknowledges the importance of computer science by its guiding principle: "University for the Information Society". Come and get to know us, our department, the university and Paderborn! We look forward to seeing and working with you!

CONTENT AND STRUCTURE

The Master's degree program of four semesters builds upon knowledge gained during a Bachelor's degree program. Courses are structured into the following five Focus Areas:

- **Software Engineering**
- **Algorithm Design**
- **Networks and Communication**
- **Computer Systems**
- **Intelligence and Data**

We put very few restrictions on your choice of courses, allowing you to strongly focus your studies to a single area of computer science or to diversify your education

across multiple areas. We encourage that you pursue your own interests and assist with making these choices by personal mentoring and advice. One highlight is the so-called project group: a course lasting an entire year, working on a research topic with a team of Master students, counselled by PhD students and professors.

Our Master program can be completed entirely in English. It ends with a Master's thesis, typically undertaken within a research group or in cooperation with industry. After successful completion, you earn the degree Master of Science (M.Sc.).

SYLLABUS: MASTER'S PROGRAM COMPUTER SCIENCE (EXEMPLARY)

Semester	1	Module 1 (6 ECTS)	Module 2 (6 ECTS)	Module 3 (6 ECTS)	Module 4 (6 ECTS)	Module 5 (6 ECTS)
	2	Project group (20 ECTS)	Module 6 (6 ECTS)		Seminar 1 (5 ECTS)	Studium Generale (9 ECTS)
	3		Module 7 (6 ECTS)	Module 8 (6 ECTS)	Seminar 2 (5 ECTS)	Studium Generale (9 ECTS)
	4	Master's thesis (30 ECTS)				

More Information: www.cs.upb.de/en/master

ADMISSION REQUIREMENTS

You should have a BSc in computer science or a related subject. Your final grade in this course should be 3.0 or better (according to the German marking system).

To study at a German university, a general higher education entrance qualification is required.

If you have not earned your BSc qualification in an English-speaking country, you will also need to provide a suitable English language qualification. This can be demonstrated by a TOEFL score of at least 550 (paper and pencil) or 79 (internet-based) or an equivalent qualification (e.g. Cambridge first certificate).

CAREER OPTIONS

With a Master's degree in computer science you will have excellent career prospects.

Computer scientists work in areas as diverse as embedded systems, medicine or multimedia. Team-oriented work with partners from all over the world is a characteristic of today's computer science jobs.

With our Master's program you will acquire skills that are highly valued in industry. Our program also provides a solid foundation for research work, later culminating in a PhD degree. Paderborn offers numerous opportunities for jobs both in the IT sector and in the engineering industry in international companies.

COSTS

We do not charge any tuition fees!

Costs include a mandatory social fee and living expenses. The social fee is approx. 300 Euro per term and includes the Semesterticket, which gives you free access to local and regional public transport such as buses and trains. Living expenses include expenses for accommodation and subsistence and are approx. 730 Euro per month.

PADERBORN CITY LIFE

Despite its very modern service and entertainment-oriented appeal, Paderborn also offers opportunities for the historically inclined, for example a 700-year old cathedral overlooking the city centre. Paderborn is known to be a very safe place and at the same time offers lots of attractions to students to enjoy themselves.

