Why Study Computer Science in Paderborn?

The University of Paderborn’s Department of Computer Science has a high international reputation. For instance, the department has been rated 16th worldwide by a scientific survey of software engineering institutes published by the ACM (Association for Computing Machinery) and took the top spot in Germany. In the most recent German CHE ranking, the department has been rated among the top four computer science departments.

We are currently attracting research grants of 5.5 million euro per year. Besides basic research in the department’s research groups, research is also carried out in dedicated institutes (C-LAB, HNI, PC’ and s-lab) in association with industrial partners (e.g. Siemens, Wincor Nixdorf). Our students benefit from this cooperation by application-oriented teaching and early contacts with prospective future employers. At the same time our teaching is in step with recent developments in research.

Lectures represent areas of expertise of our department and are given by leading researchers in their respective fields. We offer our students an excellent environment for their studies, with well-equipped computer labs and wireless network access throughout the campus. Numerous research projects provide job opportunities for students. They can also work as teaching assistants.

About the Manager’s programme:
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Secretary:
Ms. Irene Roger
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Studying in Paderborn as an international student/Application:
International Office
www.uni-paderborn.de/international

Key Facts
Start of classes: every October/April
Duration: 2 years
Language: English or German
Entry requirements: BSc in computer science or related subject, English language proficiency
Assessment: exercises, practical coursework, examinations, Master thesis

You are interested in undertaking a Master’s course in computer science? We offer an excellent Master’s programme in computer science in a world-leading research institute. With currently 1300 students enrolled in computer science degree programmes and a scientific staff of 17 professors and 44 lecturers, 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. Choosing to study in Paderborn enables you to learn about and maybe even take part in the most recent thrilling developments in computer science.

Still being a young discipline, computer science has advanced to one of the most exciting research areas, with computer science technology being found almost everywhere in today’s world. Computer science technology is one of the supporting pillars of our information society with ever increasing predictions of its future growth. We would like to make you one of the leading architects of computing systems, might these be hardware or software.

The University of Paderborn 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!

Further Information

www.cs.upb.de

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MASTER'S PROGRAMME: CONTENT AND STRUCTURE

The Department of Computer Science offers the following degree programmes:

- Bachelor of Science in Computer Science (In German), 3 years – starts in October
- Master of Science in Computer Science (In German or English), 2 years – starts in October and April
- PhD Programme (In English), 3 years

They are complemented by a number of interdisciplinary degree programmes. For more information about the programmes, please visit our website www.cs.upb.de/cshome.

Several International PhD programmes are offered by the Paderborn Institute for Advanced Studies in Computer Science and Engineering (PACE), see http://pace.upb.de.

The goal of the Master's programme is to intensify and deepen knowledge gained in the preceding Bachelor's programme. The Master’s programme in Paderborn is divided into four main areas of expertise: Software Technology and Information Systems, Models and Algorithms, Embedded Systems and System Software, and Human-Machine Interaction.

The programme is organised in modules, with an overall workload of 120 ECTS. The following table shows the general structure of the programme.

<table>
<thead>
<tr>
<th>Master</th>
<th>ECTS</th>
<th>European Credit Transfer System (Internationally accepted credit points)</th>
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<tbody>
<tr>
<td>Area of specialisation</td>
<td>24 ECTS</td>
<td></td>
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<tr>
<td>Selective courses</td>
<td>24 ECTS</td>
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<tr>
<td>Student project group (one year)</td>
<td>30 ECTS</td>
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<tr>
<td>Minor subject or general studies</td>
<td>12 ECTS</td>
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<tr>
<td>Master thesis</td>
<td>30 ECTS</td>
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<tr>
<td>Sum</td>
<td>120 ECTS</td>
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</tbody>
</table>

ENTRY REQUIREMENTS

You should have a BSc in computer science or a related subject. Your final grade in this course should be 3.0 (according to the German marking system) which is above 70% of the credits given or better.

To study at a German university, a general higher education entrance or equivalent 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 a TOEFL of 550 (paper and pencil) or 79 (internet-based), or an equivalent qualification (e.g. Cambridge first certificate).

COSTS

Costs include a tuition fee, social fee (including Semesterticket*) and living expenses.

Tuition fee (per term) | 500 Euro
Social fee and Semesterticket* (per term) | 195 Euro
Living expenses (per month) | approx. 600 Euro

* That ticket permits you to use the bus and train in the region for free.

CAREERS

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 programme you will acquire skills which will be highly valued in industry as well as provide you with a solid foundation for PhD research.

Paderborn provides numerous opportunities for jobs both in the IT sector and in the mechanical engineering industry in international companies. The International Graduate School Dynamic Intelligent Systems at the University of Paderborn offers a 3-year PhD-programme in English, see http://pace.upb.de.

CAMPUS AND CITY LIFE

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

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.