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# Master's degree

**Computer Science**

**University of Bayreuth • Bayreuth**

## Overview

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<tr>
<th><strong>Degree</strong></th>
<th>Master of Science in Computer Science</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Teaching language</strong></td>
<td>English</td>
</tr>
<tr>
<td><strong>Languages</strong></td>
<td>Courses are held in English (100%).</td>
</tr>
<tr>
<td><strong>Programme duration</strong></td>
<td>4 semesters</td>
</tr>
<tr>
<td><strong>Beginning</strong></td>
<td>Winter and summer semester</td>
</tr>
<tr>
<td><strong>Application deadline</strong></td>
<td>15 July (winter semester) and 15 January (summer semester)</td>
</tr>
<tr>
<td><strong>Tuition fees per semester in EUR</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Combined Master's degree / PhD programme</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Joint degree / double degree programme</strong></td>
<td>No</td>
</tr>
</tbody>
</table>

## Description/content

**Research in View**

The general aim of the Master's programme Computer Science is to provide a research-oriented programme of study. On the basis of a broad understanding of the subject area with select areas of emphasis, creative and constructive abilities to produce and develop hardware and software systems are nurtured and honed. In addition, the students' basic research and applied research skills in the field of computer science are developed and enhanced.

## Career Prospects

Building on one's initial career-qualifying degree, this Master's programme provides knowledge and competencies that enable graduates to pursue doctoral research – e.g., in a doctoral programme – or to engage in complex industrial or freelance activities in the areas of research, development, implementation, distribution, or maintenance. Typical areas of activity for computer scientists with a Master's degree are the development of new methods and systems for information processing (e.g., for manufacturing corporations, software companies, and research institutions), the introduction of automated information processing systems in companies or administrative departments, and activities relating to operations, as well as product maintenance and distribution...
in the computer industry. Computer scientists are also qualified to work at a range of academic institutes, including research and teaching activities at universities.

## Course Details

### Course organisation

The structure of the Master’s programme is based on the current recommendations of the German Informatics Society (GI). It is divided into four sections: Computer Science, Projects, Language and Master’s Thesis (see table).

In the first year, basic and extended competences in theoretical elements of study are taught. After that, one semester with a focus on practical study elements follows. The final semester is devoted to the Master thesis.

The third semester is completely designed as a project semester and represents an essential characteristic of the Master’s degree programme. After deepening their education in the first year, this project semester enables the students to apply their acquired skills to practical situations. Normally, a project is realised at the University of Bayreuth under intensive and individual supervision from scientists and tutors within the framework of a relevant research project.

A project has 8 or 15 credit points (small or large project) and includes a practical part (for example, practical training) and a theoretical part (for example, seminar). Students can choose how they want to divide the project semester, for example, two large projects or one large and two small projects. Since students have to complete more than one project, a fixation on just one application area can be avoided. One of the selected projects should lay the groundwork for the Master’s thesis, thus allowing an easy transition to the third phase of study. The chosen projects can either be interdisciplinary or exclusively related to computer science. This is also true for the Master’s thesis.

It is possible for German students to spend the second semester as a semester abroad at an English-speaking university. (This is not recommended for foreign students since they are already studying in a foreign country.)

### PDF Download

A Diploma supplement will be issued: Yes

Course-specific, integrated German language courses: Yes

Course-specific, integrated English language courses: Yes

## Costs / Funding

### Tuition fees per semester in EUR

None

### Semester contribution

In Germany, students at all higher education institutions must pay a semester contribution. This payment (in Bayreuth: 107.81 EUR per semester) has nothing to do with tuition fees; rather, it covers your contributions to student services and the student government. At the University of Bayreuth, it includes a “semester ticket” that allows you to use public transport in the region.

### Costs of living

The cost of living in Germany, e.g., accommodation, food, clothing and recreational activities,
is about average compared to other European countries. Living expenses are significantly lower than in countries like Denmark, Luxembourg or Switzerland but rather high compared to countries like Poland, the Czech Republic or Italy. Compared to other large German cities, such as Munich, Berlin or Hamburg, Bayreuth’s low cost of living and affordable housing make the city and the region particularly attractive to young people and families. The DAAD website will tell you what living expenses to expect in Germany: https://www.daad.de/deutschland/nach-deutschland/voraussetzungen/en/9198-financing/.

<table>
<thead>
<tr>
<th>Funding opportunities within the university</th>
<th>Yes</th>
</tr>
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</table>
| Description of the above-mentioned funding opportunities within the university | Scholarships awarded via the International Office  
Students (monthly payments: 300 EUR)  
You can apply for the scholarships starting in the third semester of study; scholarship funding cannot be provided during the first two semesters of study. You must submit the following documents next to your application:  
Enrolment certificate | Copy of passport and residence permit | Letter of recommendation from an instructor at the University of Bayreuth | Evidence of coursework completed at the University of Bayreuth, including grades | CV  
Doctoral researchers (monthly payments: 400 EUR)  
Submit the following documents next to your application: Enrolment certificate | Copy of your passport and residence permit | Letter of recommendation from your supervising professor at the University of Bayreuth | Exposé and time-line for your doctoral research | CV  
Please check: http://www.international-office.uni-bayreuth.de//en/come-to-bayreuth/scholarships/index.html |

Requirements / Registration

| Academic admission requirements | Excellent Bachelor’s degree with specific courses in:  
- computer science as major subject and  
- mathematics as minor subject |
| Language requirements | English language certificate on level B2+  
(e.g., IELTS higher or equal to 6.5 or TOEFL-IBT higher or equal to 88) |
| Application deadline | 15 July (winter semester) and 15 January (summer semester) |
| Submit application to | See: https://www.uni-assist.de/en/tools/uni-assist-universities/detail/hochschule/452/ |

Services

| Possibility of finding part-time employment | There are many ways for international students in Germany to earn money while they study, for example, as wait staff, academic assistants or private tutors, but there are some restrictions. For more detailed information, please visit: https://www.daad.de/deutschland/in-deutschland/arbeit/en/9148-side-jobs/. |
Welcome to the University of Bayreuth!

The University of Bayreuth is well-connected internationally and constantly setting new standards with its innovative responses to social developments and processes. One thing is certain: on this unique campus, interdisciplinary thinking goes well beyond the usual forms of interdepartmental co-operation. Proof thereof can be found in our many interdisciplinary programmes of study.

> more:
https://www.youtube.com/watch?v=buDSVWVLIM

<table>
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<tr>
<th>Accommodation</th>
<th>Accommodation for students</th>
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<tbody>
<tr>
<td>Bayreuth has a number of student dormitories (both private dormitories and dormitories offered by the Association for Student Affairs) and a vast array of private rooms available. Under no circumstances should you assume that you will be assigned a room in the student dormitories! You will need to actively search for a room on your own – either in a private dormitory or on the private market.</td>
<td></td>
</tr>
</tbody>
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More information regarding accommodation for students is available here: www.uni-bayreuth.de/en/studies/accommodation/index.html. Please also read the DAAD’s information on searching for an apartment.

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<tr>
<th>Accommodation for international guests</th>
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<tbody>
<tr>
<td>All other international guests are requested to register via the Welcome Services Database (WelSe).</td>
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<table>
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<tr>
<th>Accommodation for short visits</th>
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<tbody>
<tr>
<td>For short visits, we recommend searching for accommodation on Airbnb. In addition, a limited number of apartments are available in the Alexander von Humboldt Guest House.</td>
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<table>
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<tr>
<th>Specific specialist or non-specialist support for international students and doctoral candidates</th>
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<tbody>
<tr>
<td>● Other</td>
</tr>
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<tr>
<th>Support programmes for international students</th>
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</table>
International, innovative, and interdisciplinary in research and teaching

The University of Bayreuth is a dynamic campus university with about 13,500 students. Beyond the interdisciplinary research focus and excellence in teaching, the university has a clear vision of social responsibility and entrepreneurship.

We have a close network of strategically selected, international research partners and have strategic partnerships with universities around the globe. A wide range of innovative BA, MA and PhD programmes as well as our international summer schools are conducted in English. Presently there are around 1,350 international students from 100 countries on campus. Focus areas include Nonlinear Dynamics, Polymer and Colloid Science, Molecular Biosciences, Ecology and Environmental Sciences, New Materials, African Studies, High Pressure and High Temperature Research, Cultural Encounters and Transcultural Processes, Innovation and Consumer Protection, Food and Health Sciences, Energy Research and Energy Technology, Governance and Responsibility.

Our university has an outstanding staff-student ratio. Our high performance levels, multidisciplinary collaborations and scientific excellence result in high ranking positions. In the 2018 THE ranking “150 under 50”, the University of Bayreuth achieved a top position among the best universities in Germany. We have proven expertise in campus and curriculum internationalisation, which is confirmed by the results of the extended internationalisation audit conducted by the German Rectors’ Conference, a close and successful project cooperation with the German Academic Exchange Service (DAAD) and a number of Alexander von Humboldt Awards for our international management and service.

Welcome to our one-of-a-kind campus in Bavaria!
It is both the heart of our university and a source of inspiration. It is where friendships are made, collaboration is initiated, and ideas are conceived, ensuring that our university remains a beacon of innovation. Scientific exchange profits tremendously from the wide variety of disciplines our communicative campus brings together. That is probably why the University of Bayreuth has been able to celebrate so many awards and honours for its scholarly accomplishments.

University location

University of Bayreuth
Universitätsstraße 30
95447 Bayreuth
Germany
Contact

University of Bayreuth
Computer Science

Universitätsstraße 30
95447 Bayreuth

Tel. +49 921557680

Courses website: https://www.uni-bayreuth.de/en/studies/master/computer_science/index.php

https://www.facebook.com/UniBayreuth
https://twitter.com/unibayt
https://www.linkedin.com/school/university-of-bayreuth/
https://www.instagram.com/uni.bayreuth/

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International Programmes in Germany - Database

www.daad.de/international-programmes
www.daad.de/sommerkurse

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DAAD - Deutscher Akademischer Austauschdienst e.V.
German Academic Exchange Service
Section K23 – Information on Studying in Germany
(responsible: Judith Lesch)
Kennedyallee 50
D-53175 Bonn
www.daad.de

GATE-Germany
Consortium for International Higher Education Marketing
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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