

# International Computer Science

Ostbayerische Technische Hochschule Regensburg (OTH Regensburg)  
Bachelor of Science



## Programme

### Computer Science is the key technology to both the present and the future

IT skills and knowledge are in demand all over the world. If you are interested in software and technology in a global context, then read on...

#### Computer science is international, innovative and team-oriented

The International Computer Science programme is ideal for students who want to pursue their interest in software and technology in a global context. Studying in English qualifies you for one of the many career opportunities in the field of computer science, within the global IT market. Our degree programme is application-orientated and you will have the opportunity to deepen your theoretical knowledge in practice and broaden your knowledge base during an industrial placement as part of your studies.



#### Contact

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## OTH Regensburg

### Study International Computer Science at the OTH Regensburg

#### Our target group is prospective students who have...

- an interest in software and technology.
- logical, analytical and networked thinking, plus enjoy developing software solutions for the global market.
- international career aspirations.

#### Top reasons to study with us

- You can choose from a **broad spectrum of application-orientated subjects** to specialise in, in doing so opening up a variety of professional opportunities.
- **Practical orientation:** We combine a **theoretical education** with a high level of practical relevance. An industrial placement semester enables you to make your first professional company contacts.
- **Ideal conditions for studying:** An excellent supervision ratio between lecturers and students as well as outstanding equipment in a new faculty building ensure the perfect learning environment.
- **As a student from abroad,** you will learn German up to level B1.
- Domestic graduate students learn Spanish.
- **Continuing consecutive Master's programme in Computer Science**
- **Studying in Regensburg:** diverse student life, a shared campus for all higher education institutions and an excellent quality of life in a World Heritage city with over 30,000 students.

## Content

## Study structure/content

The bachelor's programme comprises seven semesters and is characterised by a high level of practical relevance. Many modules regularly offer practical exercises additionally, 'hands on' projects in modern laboratories help to deepen the practical relevance.

The International Computer Science programme teaches the basics in the varying areas of computer science. Problem solving in different programming languages is taught as well as global software solutions. You will hone your computer science thinking skills, for example, through developing algorithms among other things. Also, during your course, you will develop your language skills in either German or Spanish. The practical study semester takes place during the 5th semester and a bachelor's thesis concludes the programme.

## Degree qualification: Bachelor of Science (BSc)

### Study contents:

#### Semesters 1 to 4:

- Analysis
- Linear Algebra
- Programming
- Automata, Formal Languages and Computing
- Business Administration
- Computer Systems
- Network Technology
- Databases
- Global Software Development
- Operating Systems
- Statistics
- Web Technology project
- Software for the Global Market
- Algorithms and Data Structures
- Computer Architecture
- Language Track 1 – 4

#### Semester 5:

- Industrial placement semester

#### Semesters 6-7:

- Advanced modules and elective modules:
- Scientific Seminar
- Distributed Systems
- Information Security
- Green IT
- Data Warehouse
- Human Computer Interaction
- The bachelor thesis and bachelor seminar end the course.

## Perspectives

### Perspectives

- Our bachelor's degree programme in International Computer Science qualifies you for many internationally oriented professions with a bright future. The career opportunities with a bachelor's degree in International Computer Science are worldwide and extremely diverse. Graduates are qualified to work in almost any field or industry including:
  - IT
  - Automotive
  - Agriculture
  - Mechanical engineering
  - Banking und insurance
  - Media and
  - Pharmaceutical

And the possible fields of activity span a similarly large area. For example, you can work as a:

- Software architect
- Software developer
- Tester
- System administrator
- Requirements engineer
- Project manager
- IT consultant

## Admission to the programme

### Academic admission requirements

The following are required for admission to the bachelor's degree programme in International Computer Science

In order to apply, the following documents are necessary:

- General university entrance qualification
- If your degree was achieved outside of Germany, include the uni-assist evaluation report [VPD](#)
- [>](#)
- Comparable international qualifications
- If your native language is not English, please provide a language certificate (see below)

### [Further information >](#)

#### Language requirements

Applicants whose native language is not English are required to provide evidence of sufficient English proficiency in spoken and written language using the certificates recognised by OTH Regensburg. At least "Level B1" should be demonstrated under the Common European Framework of Reference for Languages, however B2 is recommended in order to keep up with the tempo of the course.

Accepted certificates of English language proficiency are as follows:

- IELTS certificate
- TOEFL certificate
- Cambridge Certificate, level B1
- TELC, level B1
- Graduation certificate from a public or state-recognised high school in Germany

The programme starts in the winter semester. You can find all information about the application under the following [link >](#)

#### Application deadline

For the winter semester: 1 May to 15 July

Applications submitted outside of this period cannot be considered.

Submit application to

1. Please register in the first step at [Hochschulstart >](#)
2. After registering with Hochschulstart, you apply in the [application portal of OTH Regensburg](#)

Further information and [help >](#)

If your qualifications were achieved outside of Germany, then please include the uni.assist VPD evaluation report.

Dr. Sebastian Fischer is happy to answer your questions about the degree: [bsc.ics@oth-regensburg.de](mailto:bsc.ics@oth-regensburg.de)?