Facts and Figures

Duration: 2 years
Programme start: April and October
Language: English

Application Deadlines:
Winter semester: 1 June / 15 July*
Summer semester: 15 December / 15 January*
Requirements: BSc in Computer Science or similar, profound knowledge in mathematics and theoretical computer science
Fees: 290 Euro per year
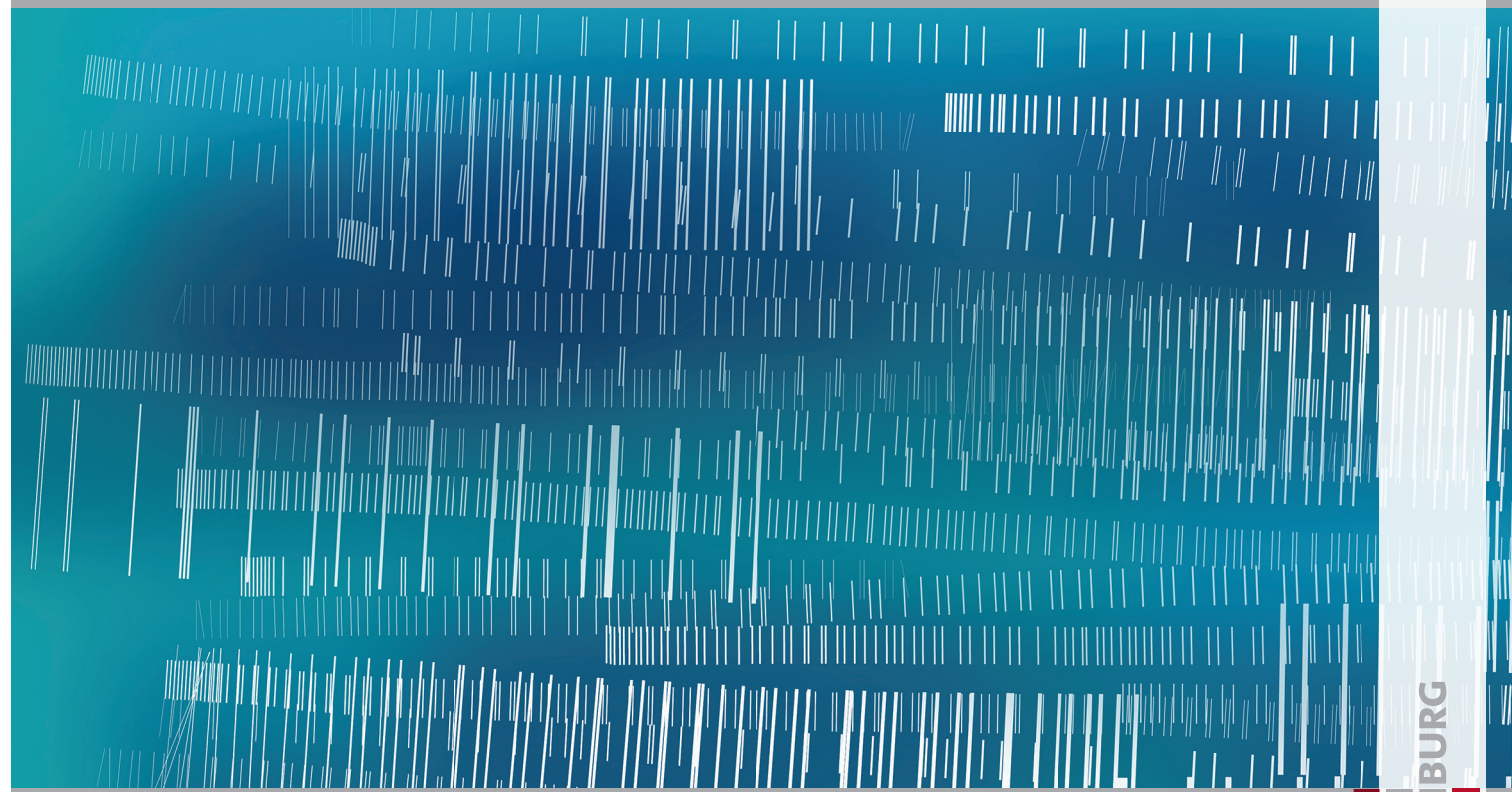
(*Please check web page for details)

How to apply

Please send the following documents by post:

- Completed application form (online)
- A certified copy of your undergraduate diploma
- A certified copy of your grade transcript
- A certified copy of your secondary school certificate
- Proof of English proficiency (TOEFL or IELTS)
- Curriculum vitae or résumé
- GRE score (strongly recommended)

Master of Science

Computer Science

University of Freiburg
Faculty of Engineering

August 2016

University of Freiburg – Faculty of Engineering
Admissions Office
Georges-Koehler-Allee 101
79110 Freiburg, Germany
Tel: + 49 761 203 8340
Email: mcs@informatik.uni-freiburg.de
http://mcs.informatik.uni-freiburg.de

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The Master's Programme

In the past 20 years developments in informatics and computer science have changed our daily lives significantly. Smart phones, GPS systems, search engines, digital cameras and USB drives make our lives easier. The Master's programme in Computer Science offered by the University of Freiburg will equip you with the practical and theoretical skills necessary to contribute to this technological progress.

Mathematical analyses and proofs play an important part in the curriculum. In lab courses, projects, and during the final thesis, students learn to apply the theoretical foundations. A very flexible study programme and the large variety of elective courses give you the opportunity to shape your individual profile.

As a graduate student at the Faculty of Engineering you will benefit from
- a modern campus with state-of-the-art equipment
- a wide range of research fields
- a perfect blend of theoretical and practical courses
- high quality teaching and research
- living in one of Germany's most beautiful and appealing cities
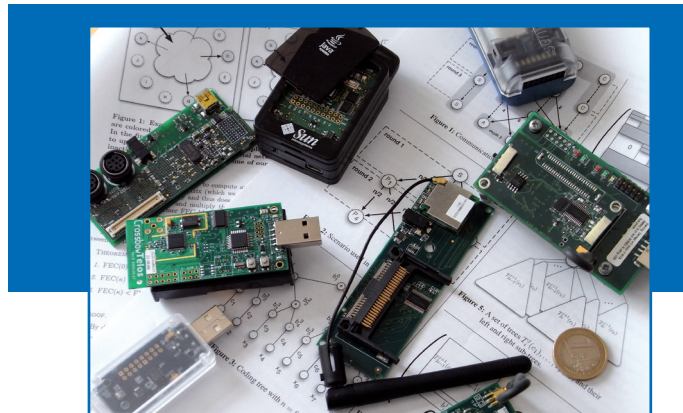
The Curriculum

Students will specialise in one of three areas:
- Cognitive Technical Systems:
  E.g. robotics and autonomous intelligent systems, artificial intelligence and machine learning, computer vision and graphics
- Cyber-Physical Systems:
  E.g. verification and analysis of hard- and software systems, software development and programming languages, embedded systems
- Information Systems:
  E.g. theoretical and applied algorithms, networks and distributed systems, data management and communication, bioinformatics

In these areas they will attend lectures and complete lab courses, seminars and a team project. In the final semester, students will undertake a research project culminating in a dissertation.

In addition, students will choose one application area:
- Computational Neuroscience
- Bioinformatics
- Economics
- Microsystems Engineering

The Department

The Department of Computer Science is one of the youngest departments at the university. Situated on a new campus, the Faculty of Engineering features modern facilities including various research labs, computer labs for students as well as WiFi on the whole campus.

The University

Founded in 1457, the University of Freiburg is one of the most renowned universities in Germany. Its Faculty of Engineering focuses on higher education and research in key technologies, such as microsystems engineering, embedded systems, sustainable systems engineering and computer science. It does not only explore new ways in research, but it also has been awarded various prizes for striving to implement new methods and technologies in the teaching process.