

## Graduate Perspectives

The MSc in Applied Computer Science enables you to contribute to all phases of systems and software development.

In addition to software development, IT consulting, which supports the planning, introduction and management of information systems, represents an important field of activity.

One of the strengths of our graduates lies in the particularly broad training in the methods of applied computer sciences.

Your career entry is assisted by the network of the faculty for Information Systems and Applied Computer Science (WIAI).

Some graduates will have gained further practical experience by completing their master's thesis in cooperation with an industry partner.

Typical sectors for your professional career include private businesses and public authorities with their increasing needs for sophisticated document and content management; The media and communication industries, using both traditional publishing technology as well as modern electronic media; The tourism, sports and entertainment industries, with their numerous innovative information technologies such as mobile location-sensitive services; The cultural sector, including museums, archives and heritage conservation.



## Admission Requirements

This programme is aimed at students with a bachelor's degree in computer science, applied computer science or a related discipline. If you are interested in solving demanding practical problems with the help of modern information technologies, you should consider an advanced degree in applied computer science.

Admission to the programme is based on an aptitude assessment process. Information regarding this assessment and relevant deadlines can be found on the student advisory service website.

The main language of instruction is German. Some modules are available in English on request.

Our courses are open to all short-term exchange students not bound by language proficiency requirements.

However, students intending to complete a degree in Bamberg are required to verify German language proficiency.

## Contact and Advisory Service

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Universität Bamberg



*Master's Programme*

*Applied Computer Science*



## You want to work in exciting fields of computer science application?

Applied Computer Science employs modern computer science and information technology to solve demanding problems from a wide range of application fields.

As an expert in applied computing, you will develop innovative computer-based solutions ranging from the initial problem analysis to the final software implementation.

In comparison with graduates from traditional master's programmes in "pure" computer science, your expertise is characterised by a deepened understanding of the specific issues arising from the fields of application. Questions of both a technical and a managerial nature await you at the interface between the users and the processes of computer science.

The Applied Computer Science programme in Bamberg offers a solid education in practical and theoretical computer science as well as well-founded proficiency in media informatics, cultural computing, human-computer interaction and cognitive systems (Psycho-informatics). Applications in the areas of cultural, social and behavioural sciences are the centre of the degree programme in Bamberg – a curriculum which exists nowhere else in Germany!

## Your Studies

### Programme Curriculum

The master's programme is designed for a duration of three semesters and is meant to build on a bachelor's degree of at least 210 ECTS points (corresponding to 3 ½ years of full-time study). Students who have completed a bachelor's programme with less ECTS will supplement their basic knowledge in computer science and applied computer science with an additional, introductory "bridging course".

In the master's programme, a competitive academic profile may be acquired in a very flexible fashion. The elective options comprise topics ranging from applied computer science and classic computer science to various application subjects from the humanities. Two seminars and the master's thesis round out the curriculum.

*„The close collaboration between lecturers and fellow students in this study program allows me to fulfill personally and academically exacting goals in the fields of studies important to me.“*

Neil Crossley, Master-Student Angewandte Informatik



## Unique Qualities

### Research-oriented Teaching

Our professors and academic staff are involved in numerous national and international research projects. As a master's student of Applied Computer Science, you can choose from a variety of options for getting a taste of academic research.

### Internationality

We are particularly committed to preparing our graduates for work in a globalised professional world. To this end, the faculty for Information Systems and Applied Computer Science (WIAI) is continuously expanding its international network. You have the opportunity to attend lectures delivered in English and to participate in international research projects.

### Certified Quality

Our degree programmes bear the Accreditation Council seal of approval. The quality of our programmes and their respective processes has been assessed by an independent board of reviewers as part of an extensive accreditation process. Our students can rest assured: The quality promised is the quality delivered.

*“The innovative profile makes this programme unique in the German-speaking world.”*

Accreditation Agency **ACQUIN**