Your Career Prospects

The M.Sc. in International Software Systems Science allows you to specialise in the modern aspects of Computer Science that are necessary for analysing, designing and developing complex, distributed and mobile systems. At the end of your studies you will be proficient in state-of-the-art methods, languages and tools required for engineering networked software, checking the correctness and quality of software, and for solving architectural problems.

Typical fields of employment are:
- Software development and consultancy. You analyse, plan and realise large software projects in IT companies.
- Software architecture. You work as a senior software architect and are responsible for the efficient realisation of IT strategies using modern software engineering methods.
- Development and operation of IT infrastructures. You oversee server infrastructures, web portals and cloud services, business support systems for banks, telecommunications companies or e-commerce platforms.

Your Qualifications

The master’s degree programme in International Software Systems Science requires an academic bachelor’s degree in Software Systems Science or in a closely related bachelor’s degree programme such as Informatics, Computer Science, Software Engineering or Computer Engineering. The graduate M.Sc. programme requires knowledge in propositional and predicate logic, linear algebra, calculus, probability theory, automata and formal languages, as well as familiarity with object-oriented modelling and experience with object-oriented programming languages.

Your final overall mark in the bachelor’s degree must be in at least the upper third of your class corresponding to the German grade 2.7.

Moreover, your English language proficiency must be at or above the B2 level of the Common European Framework of Reference for Languages (CEFR), corresponding to UNIcert II, IELTS 6.5, TOEFL iBT 90 (internet based) or equivalent.

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Why study M.Sc. International Software Systems Science?

Software is the driving fabric behind many of the technological advances that enrich our everyday lives at home, at work and in public. Software arises from human imagination and creativity and there hardly seems to be a limit to what software can achieve. Yet, software is also a serious engineering enterprise. Ever more important tasks in government administration, industrial production, health care, public transport, etc., are placed in the “digital hands” of mobile and networked computer systems. The underlying software must be extremely reliable and constructed according to the highest standards. Cleverly meeting the demands placed on safety and robustness is both exciting and a challenge as distributed software becomes increasingly complex. The power to design such software for future generations comes equally from the creativity for discovering unconventional solutions and the mastering of advanced professional techniques and methodologies that are scientifically grounded in a system-oriented perspective.

Good Reasons to Study with Us

Excellent staff/student ratio. We value small groups in exercises, project internships and seminars.

The perfect location. Bamberg, a World Heritage Site, offers numerous leisure activities, a vibrant cultural offering and many green spaces, all of which ensure an optimal work-life balance.

Springboard into the domestic job market. An internship will provide you with practical experience and first contact points for later job searches.

Studying at top-ranked university. National student rankings confirm that our IT students are among the most satisfied and motivated students in Germany.