Admission Requirements

Computer Science, Media Informatics, Bioinformatics

Admission requirement is a Bachelor's degree in the corresponding degree course or in an equivalent degree course. Admitted applicants may be required to attend additional courses; e.g. if they wish to change their field of study or if they hold a degree from a University of Applied Sciences. For bioinformatics, a CEFIR B2 level of English is required; in addition, a CEFIR B2 level of German is required for all degree courses except bioinformatics.

Variant A. Applications are to be submitted through the central application portal of the University of Tübingen. Deadline is 31 March for the summer term, and 30 September for the winter term.

Medical Informatics

The number of students in medical informatics is restricted, and a start is possible in the winter term only. A CEFIR B2 level of both German and English is required. Applications are to be submitted through the central application portal, deadline is 15 July.

The Eberhard Karls University of Tübingen

Innovative. Interdisciplinary. International. Since 1477. These have been the University of Tübingen's guiding principles in research and teaching ever since it was founded. With this long tradition, the University of Tübingen is one of the most respected universities in Germany. Recently, its institutional strategy was successfully selected for funding in the Excellence Initiative sponsored by the German federal and state governments, making Tübingen one of Germany's eleven universities distinguished with that title of excellence. Tübingen has also proven its status as a leading research university in many national and international competitions – in key rankings Tübingen is listed among the best universities for the Humanities and Social Sciences as well as for Science and Medicine.

The city of Tübingen

Tübingen does not have a university, it is a university: young, creative, open, innovative. The picturesque historical town centre and its attractive position on the Neckar River offer a high quality of life whether you are studying, working, or taking a break.

Contact: University of Tübingen
Faculty of Science
Department of Computer Science
Sand 14 · 72074 Tübingen

Academic advisory services:
For Computer Science, Bioinformatics, Medical Informatics: studienberatung@informatik.uni-tuebingen.de
For Media Informatics: mediainformatik@ure-tuebingen.de

For further information see the following links:
www.informatik.uni-tuebingen.de
www.bioinformatik-tuebingen.de
www.medieninformatik.uni-tuebingen.de

Study Opportunities

Graduate students of all four Master programs can choose among a wide range of topics offered by the computer science department in Tübingen. The staff-to-student ratio is excellent. The broad range of offered master courses is further extended by courses for advanced bachelor's, which will be recognized for the Master's program. Master's theses may be written based on academic research projects or in collaboration with industry.

Tübingen is part of the Stuttgart Metropolitan area, one of the economically strongest regions of Europe with a booming car manufacturing industry and IT sector. Tübingen and its environs (Reutlingen, Böblingen, Sindelfingen and the Neckar Alb region famous for its many inventors) boast a large number of university spin-offs, startups, medium-sized enterprises and large companies with a high demand for computer scientists, offering both excellent career prospects and part-time job opportunities for students.

Career prospects

Graduates with a Master's degree in one of the computer science degree courses will be able to enter a career in every area of information technology. The demand for professionals in these areas is very high. The degree courses in media informatics, bioinformatics and medical informatics provide knowledge and skills that are sought after in specific areas.

A Master's degree allows students to subsequently complete a PhD - a further qualification for research and development and a first step towards an academic career.
The computer science degree course provides students with a sound knowledge in all areas of computer science, while granting freedom of choice, since students can choose among a wide range of courses offered in the various required modules. The minor offers students the opportunity to either acquire knowledge in a field outside computer science (e.g. physics, business administration, psychology etc.) or to acquire in-depth knowledge in a special field of computer science. In addition to regular lectures and seminars, numerous lab courses are offered as well as courses delivered by lecturers from industry. Participation in research projects offers students the opportunity to start working in a research group from an early time. Credits obtained for advanced Bachelor's courses can be transferred which enables students to change their subjects in the Master's program in computer science and to transfer to the University of Tübingen.

Career opportunities: All areas of the IT industry, e.g. software development and software consulting, hardware development, automotive, automotive industry, corporate consulting, trade, banking, insurance etc.

Media informatics is a discipline of applied computer science, gaining in importance on account of the rapid development of electronic media with new user interfaces and the growing number of computers, mobile devices and embedded systems used in all areas of daily life. The Master's degree course in media informatics provides advanced knowledge in media informatics, the key areas being human-computer interaction and media production, web and internet, computer graphics and visual computing, and multimedia engineering. In addition, this degree course not only includes a practical module where students can choose whether to focus on research or an application, but offers students a high degree of freedom of choice: apart from the core modules in media informatics, they may attend courses in computer science and certain minor subjects.

Career opportunities: All areas of the IT industry, especially web development, development of computer games, film industry, multimedia engineering. In addition, this degree course not only includes a practical module where students can choose whether to focus on research or an application, but offers students a high degree of freedom of choice: apart from the core modules in media informatics, they may attend courses in computer science and certain minor subjects.

The Master's degree in bioinformatics encompasses courses in bioinformatics, computer science and life sciences. The main objective of this degree course is to enable graduates to solve biological problems using high throughput technologies and bioinformatics methods in an interdisciplinary team. Students are taught efficient and advanced methods of analysis, visualization and mass data storage, with the focus on a hands-on approach and an research. The wide variety of subjects offered in Tübingen includes genomics and transcriptomics, protein and drug design, microbiome analysis and systems biology.

The degree course offers three variants: variant A for students with a Bachelor's degree in bioinformatics; variant B for biologists and other life scientists, variant C for computer scientists. Most of the courses are held in English, in variant A it is possible to complete the entire degree course in English.

Career opportunities: All areas of the IT industry, especially in biotechnological and pharmaceutical enterprises.

Medical informatics is the interdisciplinary science of systematic exploitation, management, storage, processing and provision of data, information and knowledge in medicine and healthcare. Apart from the basic principles, concepts and methods of computer science, the Master’s degree course in medical informatics teaches basic principles, concepts and methods of human medicine and natural sciences. Graduates will be trained to work closely with healthcare professionals to develop, apply and manage computational tools to address a wide range of medical questions.

By appropriate selection of modules from the various fields of study, students may complete the entire degree course in English.

Career opportunities: All areas of the IT industry, especially in medical information processing and in healthcare.