Deutscher Akademischer Austauschdienst
German Academic Exchange Service

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Master's degree

Biomedical Computing

Technical University Munich • Garching b. München

Overview

Degree	Master of Science (MSc)
Teaching language	• English
Languages	All compulsory courses are held in English. Among elective courses, students can choose from courses held in English (80%) and German (20%). The Master's thesis is written English.
Full-time / part-time	• full-time
Programme duration	4 semesters
Beginning	Winter semester
Application deadline	1 January - 31 May
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	Biomedical Computing (BMC) is an international Master's programme aimed at motivated, above-average students holding a Bachelor's degree in informatics, mathematics, physics, electrical engineering or related subjects with appropriate mathematical and programming education. Focusing on biomedical image computing and computer-assisted interventions, BMC introduces students to medical data acquisition and management, medical terminology as well as the physics of medical imaging. Furthermore, students become familiar with medical image processing, visualisation, advanced user interfaces, and computer-aided medical solutions. Several courses newly created by the medical school provide students with a unique understanding of medical problems in imaging, interventions and diagnosis. In addition to this, students get the opportunity to directly combine this understanding with engineering skills during the obligatory clinical project. In order to further provide students with proper insights into clinical routine, many events take place in the hospitals of our medical school. The elective course catalogue for BMC further allows students to acquire special knowledge in computer science areas such as computer vision and pattern recognition, software engineering, mathematical modelling and scientific computing, computer graphics and visualisation. In order to allow for a holistic preparation of students for general labour market requirements, the BMC programme also encourages students to participate in special soft skills education courses implemented by the computer science faculty in cooperation with other departments.

Course Details

Course organisation	During the first semester, all students are obliged to take mandatory, fundamental medical science and technology courses. Remaining credits for the first semester are filled with complementary courses that depend on the students' previous education. Computer science majors can choose from advanced courses in mathematics, whereas mathematics and physics majors can select from a set of computer science courses. In the second and third semesters, students take additional mandatory courses related to medicine and visual computing. Missing credits can be earned by attending courses from a list of general-interest lectures. In addition, students acquire practical experience by participating in lab courses and in a clinical project. The fourth semester is reserved for completion of the Master's thesis.
A Diploma supplement will be issued	Yes
International elements	• Projects with partners in Germany and abroad
Integrated internships	Internships are not mandatory, but there are good possibilities during lecture-free periods.
Course-specific, integrated German language courses	Yes
Course-specific, integrated English language courses	No

Costs / Funding

Tuition fees per semester in EUR	None
Semester contribution	Approx. 150 EUR (student union and basic semester ticket fees)
Costs of living	In order to cover personal expenses while studying in Munich, we recommend a budget of approx. 900 EUR per month.
Funding opportunities within the university	No

Requirements / Registration

Academic admission requirements	Applicants must have a Bachelor's degree (or equivalent) in computer science, mathematics, physics, electrical engineering or related subjects with an appropriate mathematical and programming education. Applicants must provide a letter of motivation and a scientific essay, and

	they might be invited to a selection interview (in person or by telephone). GRE or Gate Test for applicants with a degree from Bangladesh, China, India, Iran and Pakistan Preliminary documentation from uni-assist for applicants who obtained their Bachelor's degree in a country outside of the EU/EEA For further information, see: http://www.in.tum.de/en/for-prospective-students/apply-for-admission/masters-programs/
Language requirements	Proof of good English language proficiency The accepted English certificates and ways to prove your English language skills can be found here: https://www.tum.de/en/studies/application/application-info-portal/admission-requirements/language-certificates Proof of German language skills is not mandatory for the application.
Application deadline	1 January - 31 May
Submit application to	In order to apply at TUM, you need to open a TUMonline account: https://campus.tum.de/tumonline/webnav.ini. Our application wizard will guide you step by step through the online application procedure.

Services

Possibility of finding part-time employment	There are various possibilities for teaching assistantships and research assistantships at the university. Munich is also a very good place to find internships and jobs at software companies and start-ups.
Accommodation	It's not easy to find a place to live in Munich – but it's not impossible either! The Technische Universität München (TUM) does not own any student residences, but it tries to support students and staff in their search for accommodation by providing personal advice, in-house listings and useful information to ensure that you can find a place to call your own.
Career advisory service	TUM has its own "Career Service", which offers application checks, career counselling and a mentoring programme. https://www.community.tum.de/en/career-service/
Specific specialist or non-specialist support for international students and doctoral candidates	• Welcome event • Specialist counselling • Buddy programme • Accompanying programme

Contact

Technical University Munich
Informatics

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Course website: https://www.in.tum.de/fuer-studierende/master-studiengaenge/biomedical-computing/

https://www.facebook.com/TUM.Informatik/

Computer Science

University of Bonn • Bonn

Overview

Degree	Master of Science in Computer Science
Teaching language	• English
Languages	All courses are held in English.
Full-time / part-time	• full-time
Programme duration	4 semesters
Beginning	Winter and summer semester
Application deadline	For the winter semester: 1 May for non-EU citizens, 15 September for EU citizens and nationals from countries that are visa-exempted For the summer semester: 1 November for non-EU citizens, 15 March for EU citizens and nationals from countries that are visa-exempted
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	Our Master's programme is a full-time programme taught entirely in English with a research-based profile requiring talent and ambition. The standard period of study is four semesters, including the Master's thesis. The programme comprises four tracks, each corresponding to one of the four main areas of competence in research at our institute: • algorithms • graphics, vision, audio • information and communication management • intelligent systems This programme is a general, theory-focused computer science programme. Our students need to cover three out of the four tracks offered. In the second semester, our students choose an area of focus from the four tracks. Close cooperation with many internationally renowned research institutions in and near Bonn enables our students to access interesting internal project groups and enlarges the range of fascinating subjects for theses and research work. Research institutions in and near Bonn: • Bonn-Aachen International Center for Information Technology (B-IT) • Research Institute for Discrete Mathematics

- Fraunhofer Center Schloss Birlinghoven
- Fraunhofer Center Wachtberg
- Hausdorff Research Institute for Mathematics

Course Details

Course organisation	The curriculum of our Master's programme is divided into four sub-curricula, each corresponding to one of the four main areas of competence in research at the Institute for Informatics (algorithms; graphics, vision, audio; information and communication management; intelligent systems). The standard period of study is four semesters, including the Master's thesis. The programme is taught in the form of modules which consist of teaching units with a duration of one semester. Each module is completed with an exam. Three different types of modules are offered: lectures, seminars, and labs. The basis of evaluation is formed by score points (ECTS points). The Master's programme is successfully completed once 120 ECTS points have been obtained. Of these, 88 ECTS points will be obtained from modules of at least three out of all four tracks, 30 points from the Master's thesis and two points from the seminar accompanying the Master's thesis. After the second semester, our students choose an area of focus from the four tracks. Between 31 and 61 ECTS points must be obtained from this area. Seminars and labs prepare for the Master's thesis and therefore should be taken from the area of focus.
A Diploma supplement will be issued	Yes
Integrated internships	The curriculum includes an internship (lab) in one of the institutes' research groups.
Course-specific, integrated German language courses	No
Course-specific, integrated English language courses	No

Costs / Funding

Tuition fees per semester in EUR	None
Semester contribution	The University of Bonn is a public university, meaning that it does not charge tuition fees. However, all students must pay the so-called social contribution (semester fee) of about 330 EUR per semester. It includes a student transit pass for public transport and a statutory accident insurance, among other things.
Costs of living	Compared to the rest of Europe, living in Germany is not very expensive; in fact, it is only slightly above the EU average. The cost of living for students in Bonn is around 800 EUR to 1,000 EUR, with apartment rent accounting for the largest share.
Funding opportunities within the university	No

Requirements / Registration

Academic admission requirements	• Bachelor of Science degree in computer science
	• Additional qualification requirements for the Bachelor's degree (credits in theoretical computer science, mathematics, programming, etc.)
	• Mandatory documents (in English):
	  ◦ Bachelor's degree plus up-to-date transcript of records
	  ◦ TOEFL or IELTS result
	  ◦ statement of purpose
	  ◦ curriculum vitae
	  ◦ a letter of motivation
	
	For detailed information on our application requirements, applicants are asked to carefully read the guidelines on our website:
	https://www.informatik.uni-bonn.de/en/for-students/master-of-science-in-computer-science/application
	Before applying, prospective students are asked to have a close look at our eligibility criteria!

Language requirements	Submission of a TOEFL or IELTS result is mandatory for all applicants. Applications without either test result will not be considered. Exempt from this rule are: nationals and/or first degree holders (earned IN the respective country) from Antigua & Barbuda, Australia, The Bahamas, Barbados, Belize, English-speaking Canada, Gambia, Ghana, Grenada, Guyana, Republic of Ireland, Jamaica, Kiribati, Liberia, Mauritius, Micronesia, New Zealand, Nigeria, Papua New Guinea, St.Kitts-Nevis, St. Lucia, St. Vincent, Sierra Leone, Solomon Islands, Trinidad & Tobago, United Kingdom, United States, Zambia or Zimbabwe. Applicants from these countries do not have to submit language certificates. Minimum scores for TOEFL/IELTS (results below minimum score will not be accepted): • TOEFL paper-based: 550 points • TOEFL Internet-based: 80 points • IELTS: 6.0 Applicants taking the TOEFL test are asked to use the university's TOEFL code number 4856.
Application deadline	For the winter semester: 1 May for non-EU citizens, 15 September for EU citizens and nationals from countries that are visa-exempted For the summer semester: 1 November for non-EU citizens, 15 March for EU citizens and nationals from countries that are visa-exempted
Submit application to	For further information on the application process, please see https://www.informatik.uni-bonn.de/en/for-students/master-of-science-in-computer-science/application.

Services

Possibility of finding part-time employment	An excellent way for students to fund their studies and at the same time gain practical experience and meet future employers is to take a student job at one of the many information technology companies in the Bonn/Cologne area. An online job board is available from the University of Bonn (http://www.hrz.uni-bonn.de/x-tra/stellenangebote) and the "Studentenwerk Bonn" (https://www.studierendenwerk-bonn.de/en/jobbing/) and "Fachschaft Informatik" (https://www.fachschaft.info/service/jobangebote). A number of student research assistantships are also available at our institute and at the cooperating research institutions, such as Fraunhofer Schloss Birlinghoven and Wachtberg.

Accommodation	Students of the University of Bonn can apply for a room in a dormitory of the Studierendenwerk Bonn (further information: https://www.studierendenwerk-bonn.de/en/accommodation/). For more information on housing in Bonn, please visit our website:www.uni-bonn.de/en/university/university-life/living-in-bonn.
Career advisory service	The University of Bonn has a central career service, which provides a range of advice and support about choosing a career and applying for jobs. Moreover, international students can join the "iStart" career programme, which teaches participants tangible knowledge and valuable skills that will enable them to write successful applications for jobs in Germany. The programme is geared toward giving students a successful career path both during and after their studies, thus making it easier for them to enter the job market.
Specific specialist or non-specialist support for international students and doctoral candidates	• Welcome event • Specialist counselling
Support programmes for international students	The University of Bonn offers a range of different support programmes for international students. The Welcome Days before the start of every semester are an opportunity for new students from abroad to gather information on the most important issues, such as enrolment, registration with the local authorities, and opening a bank account. Getting to know fellow international and German students during recreational activities is another benefit of the Welcome Days.

Contact

University of Bonn
Institute of Computer Science

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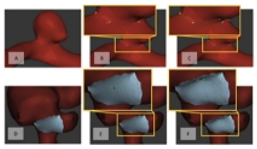
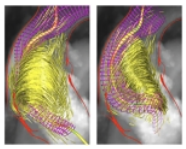
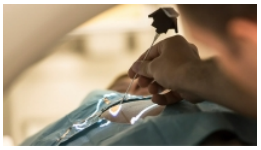
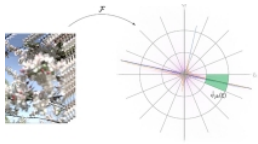
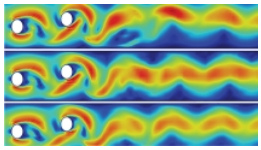
Course website: https://www.informatik.uni-bonn.de/en/for-students/master-of-science-in-computer-science

Visual Computing

Otto von Guericke University Magdeburg • Magdeburg

Overview

Degree	Master of Science
Teaching language	• English
Languages	The entire programme is in English.
Programme duration	4 semesters
Beginning	Winter semester
Application deadline	31 May
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	The Master's in Visual Computing at Otto von Guericke University Magdeburg provides a world class education in visual computing with a particular emphasis on visualisation, computer graphics, and computer vision. With state-of-the-art facilities, a broad and research-oriented curriculum, and a small number of students, the programme provides an excellent preparation for a career in visual computing in both industry and academia.

Course Details

Course organisation	The programme consists of four semesters of in-class teaching and project work. The first semester lays the groundwork by ensuring that students have the required breadth and depth for the remainder of the programme. For this, they take foundational courses in areas of visual computing to which they have not yet been exposed. In the second semester, students deepen their knowledge of visual computing by taking more specialised courses, for example, on flow visualisation, medical imaging, augmented and virtual reality, flow simulation, or object recognition. This is continued in the third semester and complemented by a research-oriented project, typically carried out in small groups, where students demonstrate their ability to creatively apply the tools of visual computing to solve open-ended problems. In the fourth semester, the focus is on the research for the Master's

	thesis. A sample study plan can be found below. » PDF Download
A Diploma supplement will be issued	No
Integrated internships	None
Course-specific, integrated German language courses	No
Course-specific, integrated English language courses	No

Costs / Funding

Tuition fees per semester in EUR	None
Semester contribution	Currently, the semester fee is approx. 129 EUR. It covers services offered by the "Studentenwerk" (student union) and the student representatives. Enrolled students receive a semester ticket for free use of public transport, student discounts in the campus cafeteria, etc.
Costs of living	A minimum of 861 EUR per month must be budgeted for accommodation, cost of living, health insurance, books, and miscellaneous expenses. In comparison with many other towns and cities, the rental prices in Magdeburg are still relatively low. There are no tuition fees for the majority of programmes, and the semester fee already includes the cost of bus and tram travel within Magdeburg. The following link provides a fair picture of the cost of living in Magdeburg: Finance
Funding opportunities within the university	Yes
Description of the above-mentioned funding opportunities within the university	The university provides a limited number of excellence scholarships. Eligible candidates are students in advanced semesters who clearly show above-average results. Scholarships cannot be provided for new students.

Requirements / Registration

Academic admission requirements	• Average grade of 2.5 • English language certificate (C1 or equivalent) • GRE test score • Letter of recommendation • Motivation letter (A GRE test score is not mandatory, but a score based on the GRE test results, the letter of recommendation and the motivation letter will be used to determine admission.)

Language requirements	C1 or equivalent
Application deadline	31 May
Submit application to	https://my.uni-assist.de (Please search for "Master Visual Computing")

Services

Possibility of finding part-time employment	It is possible to find a part-time job as a research or student assistant at one of the faculties or in the university administration (maximum: 80 hours per month). Other opportunities are student jobs at different companies, restaurants, and shops. Information on how to find a job can be found on our website: Career Service.
Accommodation	The "Studentenwerk" (student union) in Magdeburg manages the on-campus halls of residence (mostly one- to four-room apartments). Currently, the monthly rent ranges from 270 to 370 EUR per room (approx. 12 to 35 square meters), depending on the size and furnishing. Rooms in the halls of residence are limited in number. The accommodation application can be found on the website of the Studentenwerk. The Studentenwerk assists all new students in finding adequate accommodation, either on or off campus. Private accommodation is available on the Magdeburg accommodation market. However, fully furnished units are in somewhat short supply.
Specific specialist or non-specialist support for international students and doctoral candidates	• Buddy programme
Supervisor-student ratio	The ratio is approximately 35 students per professor and five students per doctoral candidate (who are involved in the supervision).

Otto von Guericke University Magdeburg

Otto-von-Guericke-Universität Magdeburg

Otto von Guericke University Magdeburg was founded in 1993 and is one of Germany's youngest universities. It was formed by a merger of the existing technical university, the teacher training college, and the medical school. The university now comprises nine faculties and about 14,000 students and is becoming increasingly more important as a centre for education and research. It plays an important role in the regional capital of Magdeburg, which is developing into a centre for business, scholarship, and culture. The university is a member of many organisations and committees. It is named after Otto von Guericke (1602-1686), Magdeburg's famous citizen, whose pioneering research into the vacuum brought him renown well beyond Germany's borders. The university aspires to teach and research in the tradition of this great scientist, philosopher, and engineer and to continue with his humanist work.

At the Otto von Guericke University Magdeburg, students can choose from more than 90 degree courses in various areas of study and specialisation. In addition to these, a range of postgraduate courses are offered. There are also many possibilities to combine different subjects across faculties. The conditions for students are ideal, with modern laboratories, experimental workshops, and clinics equipped with high-performance computers and an excellent staff-student ratio. The offer of a sound, thorough education, combining a high level of theoretical expertise with practical experience, makes Magdeburg an attractive choice.

In recent years, research at the university has gone through a decisive change, from applied research to innovative, fundamental research. Among the many areas represented, the neurosciences, immunology, non-linear systems, new materials, processes and products, computational visualistics, social transformation, communication, and culture deserve a special mention. The university hopes to make a significant contribution to economic and social development in Magdeburg and the surrounding area through its research. Equally, disciplines such as humanities, economics, and management, which have been established more recently at the university, have already made their mark on our research profile. Special emphasis is placed on close cooperation between teaching staff and students.

Magdeburg also attracts students because it offers accommodation with either a single bed or twin beds in its halls of residence.

Take a virtual trip through our international campus!

University location

As the capital of the federal state of Saxony-Anhalt, Magdeburg is the seat of the state parliament and administration. The town is more than 1,200 years old and has about 234,000 inhabitants. Its excellent location on the River Elbe and its proximity to Berlin, Hanover, and Leipzig have proven to be a significant asset to the city. In the 19th century, the town developed into an important industrial and trade centre. Nowadays, another quite distinctive feature of Magdeburg is its considerable research and innovation potential at the university, the Max Planck and Fraunhofer research institutes, and the university of applied sciences, which are all located in close proximity to each other. Magdeburg offers an extensive park and garden landscape, a rich cultural and sports life, and an ideal atmosphere for being a student. Please visit the website: www.magdeburg.de.

Contact

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Department of Computer Science

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Course website: https://www.ovgu.de/mscvisualcomputing.html

http://www.facebook.com/OVGU.Magdeburg

http://www.twitter.com/OVGUpresse

http://www.instagram.com/uni_magdeburg

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General information about studying in Germany

Important contact information

In addition to its headquarters in Bonn, Germany, the DAAD also operates a global network of regional offices and information centres. If you have any questions, please feel free to contact us. You will find the addresses here: www.daad.de/addresses.

If you want to contact the International Office at the German university you wish to apply to, you can find the contact information here: www.daad.de/io.

Scholarships & Financing

You can find information on various kinds of DAAD funding for international students, graduates and postdocs as well as on funding offered by other selected organisations here: www.daad.de/scholarships.

Germany is not particularly expensive compared to other European countries. But if you want to successfully study abroad, you will have to correctly estimate the costs and ensure that you can cover them. You will find relevant information here: www.daad.de/costs.

Accommodation in Germany

There are various accommodation options for students in Germany. In addition to flatshares or your own flat, many students live in halls of residence in the university towns.
You can find information on finding accommodation in Germany on the following website:www.daad.de/accommodation.

Information, addresses and application details for a large selection of halls of residence in Germany can be found here: www.daad.de/accommodationfinder.

The German language

German is usually the language of instruction at German higher education institutions. Sufficient language skills are therefore a prerequisite for studying in Germany. The most important questions and answers:

Are German language skills always necessary?
Because the language is important for your studies, you will often have to present proof of proficiency in German when you apply. Exceptions are international degree programmes and certain postgraduate programmes. The requirement to prove your language skills may also be waived if you only want to study in Germany for one or two semesters. Contact the International Office at your higher education institution for details.

How do I prove my language skills?
Usually you will be expected to take a German language test before you are admitted to your degree programme. There are official tests with which you can prove your German language skills.

You can find more information at: www.daad.de/german-language.

Admission requirements

If you have already studied for several years in your home country (at least one or two years depending on the country of origin), it may often be possible for you to be admitted directly to higher education in Germany. The same is true after completing a degree abroad.

However, not every foreign degree automatically qualifies you for an admission to continue your studies in Germany.
Bachelor's degrees obtained abroad are sometimes only recognised as an intermediate examination.
Before you apply for a postgraduate programme, you may need to take part in a placement process in the respective degree course.

You can find more information and the DAAD database on admission requirements at:www.daad.de/admission-requirements.

International Programmes in Germany - Database

www.daad.de/international-programmes
www.daad.de/sommerkurse

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www.gate-germany.de

Disclaimer
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