## Informatics: The Driving Force for Economy and Science

In the era of information society, none of today's well established sciences can do without data processing. In most disciplines information technology is the key to scientific progress and is the basis for developing new products and services. Therefore, qualified experts are urgently needed.

The Master's program in Informatics is research-oriented and enables you to work independently according to high academic standards. It qualifies you for a PhD, for leading software development projects and for executive positions in business and management.

## Study Environment

Munich and its immediate surroundings rank among the most important IT and high-tech regions worldwide. Students can therefore profit from the close cooperation between the Department and important companies.

The proximity of the Alps with its lakes and other famous natural sights, and the city's rich cultural life and traditions contribute to the attractiveness of the region.

Technische Universität München has more than 26.000 students, 20% of them from abroad. The Department of Informatics is located on the Garching Campus, 25 minutes away from the city center by subway.

## Profile of the Program

**Duration of study:** 4 semesters
**Degree:** Master of Science
**Start:** summer and winter semester
**Application Deadline:** winter semester May 31, summer semester November 30
**Application / Admission:** Aptitude test, further information: www.in.tum.de/Application_MSc_Informatics
**Costs per Semester (currently):** 52 € for the student union + 59 € basic semester ticket
**Teaching Language:** English
**Further Information:** www.in.tum.de/MSc_Informatics

## Contact

### Student Advisors

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Technische Universität München
Department of Informatics

# Informatics

## Master of Science

## Focus

Targeting mainly international students, the Master's program in Informatics is entirely taught in English and can be completed in four semesters. It is a consecutive degree course of study based on a prerequisite Bachelor's degree in Informatics, Computer Science, or Computer Engineering.
After having acquired the basics in computer science in your previous studies, you can now specialize and profit from the wide spectrum of courses and research topics offered at the Technische Universität München (TUM). The program offers much freedom of choice and allows you to focus your studies on your preferred areas of interest. You can choose between the research-oriented, practically-oriented and internationally-oriented profiles.

## Competence

The Department of Informatics at the Technische Universität München is one of the largest and most renowned informatics departments in Germany. With more than 30 professors you can find a competent contact partner for any subject related to informatics. The Department of Informatics offers fields of research which cover the whole spectrum - from core informatics to application-oriented informatics. As a student of the Master's program you are provided with a top-level education and will work on the currently most interesting topics.

## Specialities

Students of the Master's program at the Technische Universität München can specialize by choosing from the most important areas in informatics:

- Software Engineering
- Databases and Information Systems
- Artificial Intelligence and Robotics
- Computer Graphics and Image Understanding
- Computer Architecture
- Distributed Systems and Computer Networks
- Formal Methods and their Applications
- Algorithms and Scientific Computing

You will attend lectures, lab courses and seminars, and you will carry out research projects in these areas. By participating in software development projects and in an interdisciplinary project in a chosen minor subject, you will improve your communication skills in a specific area of application and practice the use of methods in informatics. Additionally, the curriculum covers soft skill courses, e.g. seminars on business-planning, management skills, communicative ability and intercultural communication.

## Perspectives

The Master's program prepares you for research-oriented careers, for designing software and system solutions, and for positions in consulting and management.

For a career in research, students normally do a PhD in a cutting-edge area of informatics, e.g. medical image processing and computer assisted operations or security and reliability of IT-based systems and applications. TUM offers talented students many scholarships and positions in research projects in the context of collaborative research with industry.

## Reasons for Studying at the TUM

**Competence:** one of the largest and most important departments in informatics in Germany, research and teaching in nearly all related disciplines

**Quality:** top-rankings from alumni, employers, as well as human development experts

**Industrial collaborations:** industrial collaborations with established international companies, EU Atlas of ICT hotspots: Munich ranks in 1st place

**Practical experience:** student research projects in companies

**Individual support:** national and international summer schools, mentoring, TUM: Young Academy, participation in 4 Bavarian elite graduate programs

**Interdisciplinary skills:** teamwork, presentation techniques, management and personality training, language courses

**Study abroad:** over 70 European and 100 other partner universities worldwide

**Direct and individual:** small tutorial groups, student advisory service, infopoint, career services

**Family-friendly department:** flexible child care, study program leave of absence due to family reasons, lectures are partly available online

**Munich as a versatile place of study:** one of the most favoured places of study in Germany, offering a wide variety of cultural, sporting and leisure activities

**Excellent career perspectives:** due to a shortage in skilled personnel in the field of information technology