



TAMPERE UNIVERSITY OF TECHNOLOGY

## WHY CHOOSE TAMPERE UNIVERSITY OF TECHNOLOGY?



At the leading edge



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**Simple. You've got a BSc already and you're aiming higher. You're looking for a first-rate technical university to continue your studies at a reasonable cost. Something at the leading edge of technology to provide you with an internationally valued MSc degree and then maybe go all the way to a Doctor of Science degree. And we're it.**

**Tampere University of Technology gets high marks from everywhere. It's the best known and most popular technical university among high school students in Finland, highly valued by decision-makers in business and government, and voted by students as the most student-friendly university in the country. And we have independent surveys to back up all our claims.**



## WHAT DO OUR PROGRAMMES OFFER?

### Biomedical Engineering

The International Master's Degree Programme in Biomedical Engineering provides students with the ability to work in various branches of industry, research and health care, develop their engineering skills and apply them to biology and medicine. The programme offers students a multi-disciplinary study and research environment, where they can choose to specialize in analyzing and modelling biosignals and medical images, designing information systems and medical instruments or in developing biomaterials and implants.

### Business and Technology

The International Master's Programme in Business and Technology offers a wide variety of perspectives on management and leadership in an international and technology-driven business environment. Business studies combined with engineering skills and a multi-cultural study environment provide graduates with interesting career prospects. Global customer-supplier relationships and business networks demand talented young professionals in industrial marketing, sales, supply chain management and technology sourcing. Furthermore, graduates in Business and Technology are attractive candidates for global business development projects and many students also start their career in consulting.

### Information Technology

The International Master's Degree Programme in Information Technology provides students with flexible professional and academic career opportunities that require mastery of the English language as a standard. Multidisciplinary studies and the opportunity to combine a variety of subjects enhance both the diversity of the degrees taken in this programme, as well as the graduates' employment prospects in a wide variety of tasks in industry and research. Students gain excellent abilities to develop and apply information technology, as well as manage

complete entities in many areas of technology and society. Graduates typically find employment in research, design, development, production and operating tasks or commercial and administrative tasks in the field of information technology. The profession includes the design, implementation and technical applications of systems based on data processing, automation and data transmission, not excluding abilities to work as a researcher, teacher or manager. In addition, students can apply information technology in other branches of engineering.

### Machine Automation

The International Master's Degree Programme in Machine Automation is interdisciplinary and unique. It provides students with expertise in accomplished factory automation and the application of the latest ICT technologies to the field, or in the application of mechatronics. Students will acquire profound knowledge of the scientific and professional concepts of the major subject, basic knowledge in the minor subject(s), as well as professional expertise in the discipline. They will also achieve the skills to apply scientific methods to topical and concrete problems and to participate in the societal debate within their field of expertise.

### Materials Science

The need for materials scientists in different fields of engineering is growing. This two-year programme offers multidisciplinary and flexible study opportunities of a high standard and quality. It operates in an internationally-oriented and innovative study and research environment and offers specialization fields in metallic materials, materials research and fibre, textile and fashion engineering. Interdisciplinary major studies and the opportunity to combine a variety of subjects as minor studies enhance the diversity of the degrees taken in this programme. The programme prepares students for flexible professional and academic career opportunities both in Finland and abroad.

### RF-Electronics

The purpose of this two-year programme is to prepare students for employment in the field of radio frequency (RF) electronics engineering. RF engineering skills are needed, for example, in research and development related to wireless or radio communication, global positioning, radio frequency identification (RFID), short range radio control, automotive radar, space technology, as well as industrial, medical and scientific applications. This programme aims to provide students with a solid understanding of the underlying fundamentals of engineering on which to build their special expertise, already during the programme and later on throughout their careers.

### Science and Bioengineering

The International Master's Degree Programme in Science and Bioengineering provides students with the ability to work as experts in modern molecular and instrumental life science technology in the fields of industry and research. The degree programme offers a multicultural and innovative study and research environment with a content strongly based on natural sciences and bioengineering. Students can concentrate on biosensing with micro and biosensors, molecular biotechnology and microbiology, nanophotonics, or nanomaterials science as their major subject of choice.





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Tampere University of Technology  
International Office  
Korkeakoulunkatu 1  
33720 Tampere  
FINLAND

E-mail: [interoff@tut.fi](mailto:interoff@tut.fi)  
[www.tut.fi/masters](http://www.tut.fi/masters)



Tampere University of Technology (TUT) conducts scientific research in technology and architecture and provides the highest level of education within these fields. TUT offers programmes leading to Bachelor's, Master's and Doctoral degrees. TUT is the second largest University of Technology in Finland and has a lively campus of 12,000 engineering and architecture students.

Leading-edge fields of research at TUT are signal processing based technologies, nanophotonics, biotechnology and intelligent mobile machines and hydraulic systems. The University's strategy is to engage in extensive collaboration with industry and society as a whole, also demonstrated by the fact that about 50 percent of the University's funding comes from commissioned and contract research.