

MSc MTEC

Master of Science in Management, Technology, and Economics



Welcome
to ETH Zurich.



ETH Zurich

ETH Zurich – the Swiss Federal Institute of Technology – was founded in 1855 and has long been recognised as a global leader in research and education. Excellent conditions for learning and research, state-of-the-art facilities on two campuses in Zurich, and an attractive urban environment provide an ideal setting for some of the brightest minds in the world. Currently more than 25,000 students from over 120 countries are enrolled at ETH Zurich.

ETH Zurich offers more than 20 different 3-year Bachelor's programmes. Each of these is followed by a corresponding Master's programme. In addition, specialised Master's programmes offer the opportunity to focus on interdisciplinary or emerging subject fields. Master's programme graduates wishing to pursue a career in research can continue on to a doctorate.



Discover ETH Zurich:
ethz.ch/en/the-eth-zurich/portrait

D-MTEC

The Department of Management, Technology, and Economics (D-MTEC) is located right in the heart of Zurich. More than 20 professors, about 100 postdocs and senior researchers, and 150 doctoral candidates represent a wide range of research areas and teach about 400 Master's students. Apart from our Master of Science (MSc MTEC) programme, the department offers various continuing education programmes and provides advanced courses for doctoral candidates.

Our professors are distinguished both by their scholarly excellence and by their constant engagement with industry practice. D-MTEC delivers expertise in management, economics, innovation, sustainability, system dynamics and risk. We aim at improving the understanding of the role of technology in industry, organisations, and the lives of individuals.

“The combination of natural sciences, technology, management, and economics is a unique feature of D-MTEC. The department truly combines academic excellence and a strong engagement with practice. As a result, D-MTEC students bring sound theoretical knowledge of practical applications as well as a good sense for economic relevance to the firms they join. They get things done.”

Dr Markus R. Neuhaus

Former Chairman of the Board of Directors, PwC, Switzerland

Make Technology Matter.

About the MSc MTEC Programme

The MSc in Management, Technology, and Economics (MSc MTEC) is a four-semester full-time study programme. It is designed for ambitious students willing to step up and translate knowledge into real-world innovation and committed to building a sustainable future. The programme is open to graduates with a Bachelor's degree in engineering, mathematics, computer science or a natural science.

The programme delivers comprehensive training in management and economics and explores how science and technology impact organisations and communities.

Cross-sector collaboration and entrepreneurial thinking are critical components of business leadership in

the new millennium. We maintain strong ties to leaders in business and governmental and non-governmental organisations. They serve as guest lecturers and share their experiences with students through our Mentoring Programme. The Entrepreneurial Leadership Seminar offers students the opportunity to work on a real-world case involving strategy, innovation and leadership in close collaboration with the top management of a selected company.

An international student body with a wide range of backgrounds, peer-to-peer learning, study visits and an industrial internship are part of the MSc MTEC experience and prepare students to take on leadership positions in industrial, consulting, and technology-driven organisations.

"In my studies at D-MTEC I could complement my technical background with strong business capabilities. The combination of analytical skills with fundamental knowledge about systems thinking and entrepreneurship allowed me to understand the emergence of new business opportunities and the interplay of technical, social, and market dynamics. Such skills were fundamental for starting my career and building up start-up companies."

Peter Stein
MSc MTEC Alumnus
CEO at NOMOQ





Statistics about MSc MTEC students:
mtec.ethz.ch/msc-profile

Curriculum Structure

120 ECTS Credit Points (CP) are required to earn a Master of Science ETH in Management, Technology, and Economics (MSc ETH MTEC) degree. Generally, the programme takes four semesters to complete. In most cases, classroom coursework is completed in the first three semesters of the programme. The programme concludes with a 6-month Master's thesis project, which you can write in cooperation with an industry partner or at one of our partner universities.

Core Courses (≥ 51 CP)

These courses provide a strong foundation in management and economics.

Elective Courses (≥ 10 CP)

Electives complement Core Courses and allow you to specialise in certain fields.

Industrial Internship (6 CP)

The internship lasts at least 10 weeks and can be completed either before or during the Master's programme.

Supplementary Courses (≥ 12 CP)

These courses deepen your knowledge in the discipline in which you earned your Bachelor's degree.

Master's Thesis (30 CP)

You can write either a practice- or a research-oriented Master's thesis in cooperation with industrial partners or abroad.



Detailed information about the
curriculum of the MSc MTEC programme:
mtec.ethz.ch/studies/curriculum

Develop Your Skills.

General Management and Human Resource Management

Responsibilities, functions, and organisation of a company; strategic management; business excellence; leadership; job and organisational design; work and health; organisational development; human-technology interaction.

Strategy, Markets, and Technology

Innovative product, service, and process design; strategic management; corporate sustainability; technology management; process management; innovation marketing; entrepreneurship; cooperative innovation and co-creation.

Information Management and Operations Management

Development of value-adding systems and processes; supply chain management; planning and control of business performance; management and processing of information; design and implementation of information systems.

Micro and Macroeconomics

Energy economics; resource economics; innovation economics and technical change; dynamic economic theory; sustainable development; global economic interdependencies; applied macroeconomics; business cycle research.

Quantitative and Qualitative Methods for Solving Complex Problems

Methods for handling complex situations; complex systems and organisational dynamics; operations research methods; empirical research methods; basics of project management.

Financial Management

Managerial economics aspects of business activities; balance and profit calculation; investment appraisal; cost calculation; profitability and liquidity; financial and entrepreneurial risks; sustainable finance and climate finance.



A Great Place To Study.

Zurich is consistently rated as one of the best places in the world to live. The city is situated on beautiful Lake Zurich with the Alps less than an hour away. The city of Zurich provides a clean and safe environment and boasts a high standard of living

The city has an international flair and offers many cultural activities as well as a vibrant nightlife. Most Swiss are multilingual and English is often the language of choice.

ETH Zurich itself offers a wide variety of sports, music, recreational, and student clubs and associations.

“The MSc MTEC programme is not only about classes; it offers contact to industry through guest lectures and numerous on-campus events. Moreover, I found the diverse backgrounds of students, both in terms of education and nationality, particularly enriching.”

Anna Saur
MSc MTEC Alumna
Demand Planning Lead APAC at On



A Wider View.

The Department of Management, Technology, and Economics strongly supports the international mobility of its Master's students. As a member of the IDEA League and the International Alliance of Research Universities (IARU), ETH provides unique international exchange opportunities. Up to 30 credit points can be earned toward the MSc MTEC degree by engaging in international exchange programmes.*



“Having made this incredible D-MTEC journey allowed me to choose from among several career paths, which is typical for D-MTEC graduates. These opportunities included working as a data scientist in the finance industry, teaming up with other fellows to start my own venture, working as a strategy and analytics consultant or joining a tech company in Silicon Valley.”

Lukas Falcke
MSc MTEC Alumnus
Assistant Professor at VU Amsterdam

“D-MTEC provided me with the ideal platform to design my own curriculum and pursue my passion for business and technology. During my time at ETH, I developed new technologies with Walt Disney Imagineering, led a digital transformation at one of Switzerland's largest fresh-food distributors, and had the amazing opportunity to complete my Master's thesis abroad with leaders in the field of 3D printing at Harvard University. These experiences were the highlight of my studies and, combined with the strong academic programme, were instrumental in providing me with a set of skills that prepared me for the future.”

Michael Eriksson
MSc MTEC Alumnus
Vice President Special Situations at Bain Capital

* only students who have earned their BSc at ETH Zurich or EPFL may go on a semester abroad.



Join the MSc MTEC programme

How to Apply

The MSc MTEC programme is open to students holding a Bachelor's degree in engineering, mathematics, computer science, or a natural science from an internationally recognised university. International students can apply in November, students with a Swiss Bachelor's degree can apply in November or April.

Tuition and Cost of Living

Tuition and semester fees come to CHF 800. We estimate that students will spend CHF 16,000 to CHF 26,000 on other study and living costs each year while studying at ETH Zurich. Scholarships are available for applicants with an outstanding academic record.

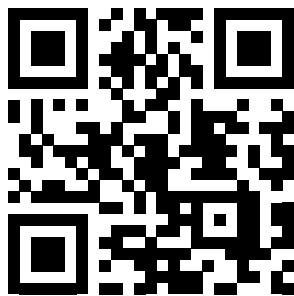


Admission requirements, application process and scholarships at D-MTEC:
mtec.ethz.ch/studies/admission

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