

MASTER MANAGEMENT, TECHNOLOGY AND ENTREPRENEURSHIP



If you want to acquire project management skills, create your own company, commercialize new technologies, or set up processes to streamline supply chains, this Master is for you! It will allow you to understand the functioning of modern businesses in a holistic manner, “think outside the box” in order to develop innovative, entrepreneurial approaches, manage key firm-internal processes, and engage with external stakeholders.

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The program allows students with a Bachelor's degree in engineering or in a technological field to acquire a high employability profile for those leadership positions which require both technology and management skills.

Students can choose to specialize either in **Strategy, Innovation & Entrepreneurship** or in **Operations Management & Systems Modeling**, which provides them with more specific competences in one of these two important areas of management. Students round-off their education with a Minor in a specific technical discipline and may select elective courses according to their preferences and specific future employment goals.

Watch the video:



"We had some very interactive classes with very good teaching. And the students being very diverse, you get a lot of different perspectives."

*Gayatri Kondepudi,
Master MTE, 2013*

Strategy, Innovation & Entrepreneurship Specialization - Building a more sustainable innovation culture at Logitech

During her Master's project Ran Li was involved in assessing and implementing a measurement system for innovation management at Logitech. A lot of companies get lost in different metrics and end up with using suboptimal ones to measure their innovation.

As an innovation leader, Logitech has realized that such a system should be customized to suit their specific needs. This Master's project assessed the current innovation capability of a new product and designed a proper metric system to measure the associated innovation activities.

Watch the video:



"What I really appreciated was the ability to pick your own curriculum depending on your interest."

*Adrian Cachinero
Vasiljevic,
Master MTE
2013*

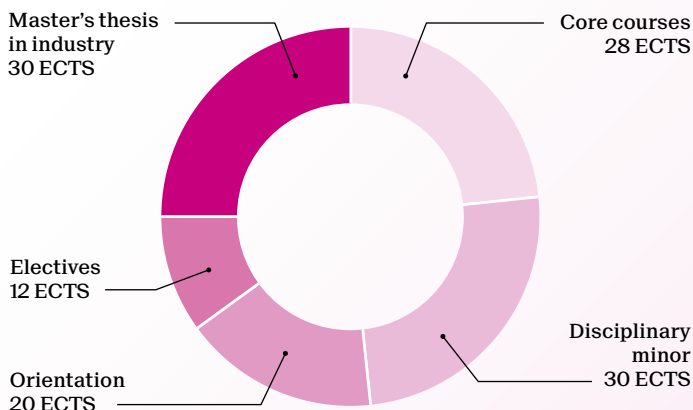
Operations Management & Systems Modeling Specialization - Applying the seven step strategic sourcing method at PepsiCo

The objective of Eirini Kefala's Master's project was to support the strategic sourcing process in one of PepsiCo's Indirect Purchasing categories. Leading firms such as PepsiCo have identified the need to leverage supplier relationships beyond traditional purchasing practices in order to achieve a competitive advantage. The seven step strategic sourcing method focuses on assessing internal and external factors to shape procurement strategies and achieve improved and predictable lifecycle costs, optimized service levels and adoption of more efficient operating models with strategic partners. The end result is building stronger, more collaborative relationships with selected, capable partners that are focused on driving continuous improvement and value globally. During her Master's Project, Eirini supported the implementation of this approach in a specific category by providing market intelligence, facilitating the stakeholders' engagement, using advanced sourcing tools, and performing data analysis.

Master of Science in

MANAGEMENT, TECHNOLOGY AND ENTREPRENEURSHIP

2-year program - 120 ECTS



In order to get additional expertise in their original technological field of study, the MTE master students must complete a "disciplinary minor" (30 ECTS) in the field of their Bachelors'Degree.

	Credits
Core courses	28
Applied corporate & industry analysis	2
Applied Probability & Stochastic Processes	4
Financial & Managerial Accounting	4
Introduction to econometrics	4
Principles of Finance	4
Principles of Microeconomics	4
Project in human and social sciences	6

Disciplinary minor	30
Minor in student's original technical field of study (Bachelor)	

Orientation	20
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Strategy, Innovation & Entrepreneurship	
Corporate Strategy	4
dThinking: Real Problems, Human-focused Solutions	5
Economics of innovation	4
Entrepreneurship & New Venture Strategy	4
Entrepreneurship Laboratory (e-lab)	4
Industry Dynamics, Models & Trends	4
Innovation management	4
Principles of Intellectual Property Management	4
Strategic Marketing & Technology Commercialization	4
Technology & Innovation strategy	4

Operations Management & Systems Modeling	
Business Information Systems	4
Data Science for Business	4
Information: Strategy & Economics	4
Logistique et analyse de la demande	4
Management de projet et analyse du risque	4
Operations: Economics & Strategy	4
Optimal Decision Making	4
Production Management	5
Quantitative Systems Modeling Techniques	4
Simulation and Optimisation of Industrial Applications	4
Supply Chain Management	4

Electives	Focus	12
B2B - high-tech marketing	3	4
Corporate governance	3	4
Early detection of innovation potential	3	4
Economics of innovation & management in energy	1	2
Environmental Policy	3	4
Global business environment	3	4
Information technology & digital strategy	1	2
Leading and managing in a global context	2	4
Negotiation techniques	2	2
Organizational behavior	2	2
Practical business law	3	4
Presentation skills	2	2
Quality assurance and quality management systems	3	4
Technology policy and the energy transition	1	2
Venture capital	3	4

1. Industry Focus
2. Skill Augmentation
3. Particular Interests

Career prospects

Graduates will have acquired the knowledge and developed the skills necessary for successfully bridging the worlds of technology and business in a large variety of organizations (such as small start-ups, large established firms, consulting firms, public organizations, VCs, and Tech Transfer Offices). For instance, at the start of the career they may work in junior or associate positions in Production and Manufacturing, Supply Chain and Logistics, Product & Project Management / Development, R&D, or Innovation Management. Their unique profile makes them also particularly attractive candidates for joining a start-up team in a technology environment.

College of Management of Technology
master.epfl.ch/management
[contact: mte@epfl.ch](mailto:mte@epfl.ch)