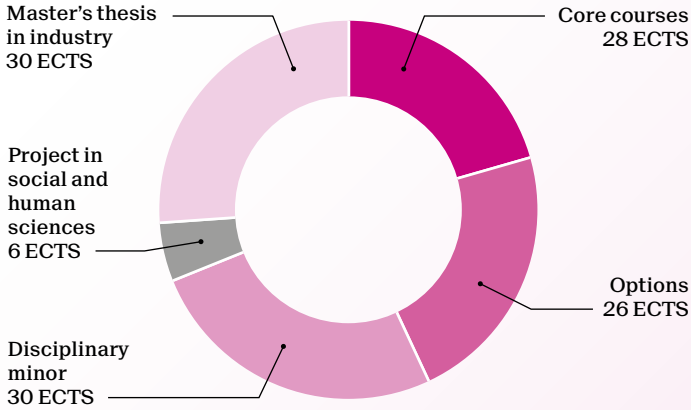


Master of Science in MANAGEMENT, TECHNOLOGY AND ENTREPRENEURSHIP

2-year program - 120 ECTS



Disciplinary minor

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.

Orientations:

- A** Strategy, innovation and entrepreneurship
- B** Operations management and systems modeling
- C** Business analytics

Admission requirements:

- Bachelor's degree in engineering or in a scientific discipline such as Mathematics, Physics, Chemistry or Life Sciences.
- Solid background in statistics, probability theory and linear algebra.
- Proficiency in English (The curriculum of the MTE program is entirely in English).

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, Innovation Management or Business Analytics.

Their unique profile makes them also particularly attractive candidates for joining a start-up team in a technology environment.

College of Management of Technology
go.epfl.ch/master-management-tech-entrepreneur
 contact: mte@epfl.ch

| | Credits |
|---|-----------|
| Core courses | 28 |
| Accounting for finance | 2 |
| Applied corporate and industry analysis | 3 |
| Applied probability and stochastic processes | 4 |
| Introduction to econometrics | 4 |
| Performance management | 2 |
| Principles of finance | 5 |
| Principles of microeconomics | 4 |
| Technology, sustainability and public policy | 4 |

| Options | Orientations | | | 26 |
|--|--------------|---|---|----|
| | A | B | C | |
| Advanced data driven business analytics | | | C | 4 |
| Advanced sustainable accounting and finance | | | | 3 |
| Applied data analysis | | | C | 8 |
| Apprentissage et intelligence artificielle | | | C | 4 |
| Causal inference | | | C | 4 |
| Computational social media | | | C | 4 |
| Continuous improvement of manufacturing systems | | B | | 5 |
| Convex optimization | | | C | 5 |
| Corporate strategy | A | | | 4 |
| Data science for business | | B | C | 6 |
| Design in innovation: creation for adoption | A | | | 4 |
| Economics for challenging times | | | | 6 |
| Energy supply, economics and transition | | | | 2 |
| Entrepreneurship and new venture strategy | A | | | 4 |
| Foundations of digital humanities | | | | 6 |
| Information: strategy and economics | | B | C | 4 |
| Innovation and entrepreneurship in engineering | A | | | 10 |
| Innovation management in the digital age | A | | | 4 |
| Intercultural presentation skills | | | | 2 |
| Large-scale data science for real world data | | | | 6 |
| Leading and managing in a global context | | | | 4 |
| Logistique et analyse de la demande | | B | | 4 |
| Machine learning | | | C | 8 |
| Machine learning for predictive maintenance applications | | | | 6 |
| Macroeconomics and monetary policy | | | | 4 |
| Management de projet et analyse du risque | | B | | 4 |
| Management of intellectual property | A | | | 3 |
| Mathematics of data: from theory to computation | | | C | 6 |
| Nature finance | | | | 3 |
| Negotiation techniques | | | | 2 |
| New space economy | | | | 3 |
| Optimal decision making | | B | C | 4 |
| Power system restructuring and deregulation | | | | 3 |
| Practical business law | | | | 4 |
| Production management | | B | | 5 |
| Reinforcement learning | | | C | 6 |
| Statistics for data science | | | C | 8 |
| Strategic management of innovation | A | | | 4 |
| Strategic marketing and technology commercialization | A | | | 4 |
| Supply chain management | | B | | 4 |
| Sustainability in the global context | | | | 4 |
| Sustainable entrepreneurial finance | | | | 6 |
| Technology and innovation strategy | A | | | 3 |
| Value chain management in practice | | B | | 4 |
| Venture capital | A | | | 4 |