MASTER

SUSTAINABLE MANAGEMENT AND TECHNOLOGY

UNIL | Université de Lausanne
HEC Lausanne

IMD

EPFL

This program equips the entrepreneurs and intrapreneurs of the future with the knowledge and skills enabling them to contribute to the transition toward a more resilient, environmentally responsible and inclusive economy while harnessing the power of technology. Students will build competences along three dimensions simultaneously:

technology & innovation, economics & management, and tools & skills for developing sustainable solutions.

Digitalization and sustainable logistics

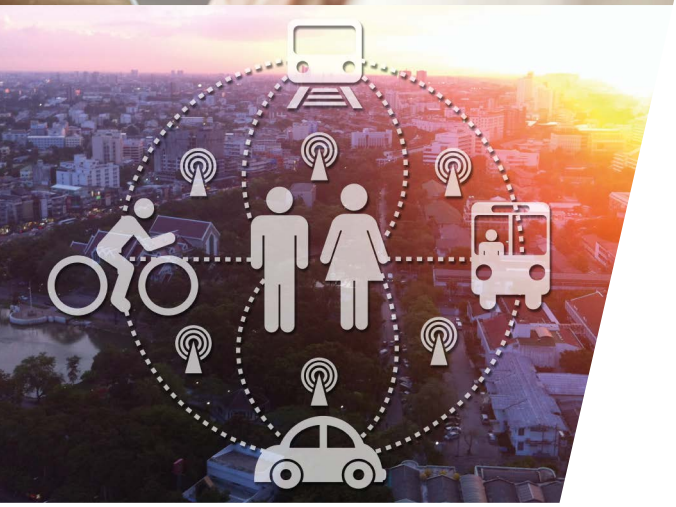
How could companies run their logistics operations in a more sustainable manner? Projects focus for example on rethinking and optimizing traditional last-mile delivery concepts in urban areas to minimize the generated environmental footprint. This could be done by efficiently operating different types of greener vehicles, like cargo-bikes, sidewalk autonomous delivery robots or electric vans.

Towards new Human Resources management systems

As digital work expands and people work more remotely, new platform systems could help maintain social links, make sure that people keep learning, that motivation remains high or that opportunities for career development are well fleshed out. Students from this program could be involved in developing such digital systems that improve the management of human resources within organizations.

New tools in personalized health

New technologies have a great potential in addressing the advancement of personalized health and medicine. For instance, students from this program could propose platforms that improve drug prescriptions; they could also study the ethical and social issues related to the data protection of genome sequencing; or they could analyze the economic and regulatory implications of personalized health solutions on the healthcare system and insurance standards.



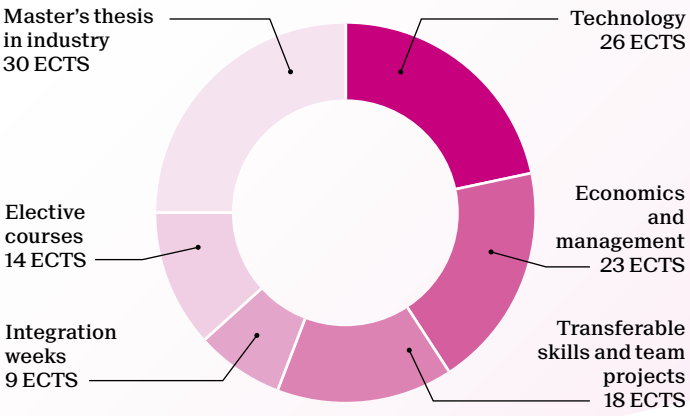
Towards a shared economy model

One clear implication of the emerging digital world is that opportunities for people to collaborate on the development of many daily services expand. This could lead to less individualistic behaviors and will foster more sustainable business models to emerge. Students could work on shared economy projects, and explore how far this model could be pushed in many markets and industries.

Master of Science in

SUSTAINABLE MANAGEMENT AND TECHNOLOGY

Joint Master UNIL/HEC-IMD-EPFL
2-year program - 120 ECTS



Courses are taught by professors on the campuses of UNIL, IMD and EPFL, thus bringing together the expertise of three complementary academic institutions of international excellence.

Graduates will receive a **Master of Science in Sustainable Management and Technology** delivered jointly by **UNIL-HEC, IMD and EPFL.** Please note that this degree is **not equivalent to an Engineer degree.**

Career prospects

Graduates will be able to lead teams in multiple disciplines and solve complex problems in different organizations (corporations, start-ups, NGOs). They will also be ready to take non-traditional positions and pursue their ideas as entrepreneurs, by integrating sustainability in their core activities.

Admission requirements

A Bachelor's degree in either an engineering field (e.g., from EPFL or an equivalent technical university) including some credits in management/economics, or in management/economics (e.g., from UNIL-HEC or an equivalent business or economics faculty) including some credits in data science, statistics, econometrics or quantitative methods, with a minimum average grade of 4.5/6 or equivalent over the entire Bachelor's program and average grades of 5.0/6 or equivalent in quantitative areas such as: Probability and statistics; Data analysis; Programming (Python and STATA); Econometrics; Operations Research; Operations management; Decision sciences; Macro- and micro-economics. Holders of a degree from a Swiss University of Applied Sciences (HES/FHS) are not eligible. For more information concerning those requirements, please contact master@e4s.center.

College of Management of Technology
go.epfl.ch/master-sustainable-management
contact: master@e4s.center

	Credits
Technology	**26**
Data science and machine learning	5
Energy supply, economics and transition	2
Information security & digital trust	4
Science of climate change	4
Statistics and data science	4
Sustainable logistics operations	3
Technology, sustainability and public policy	4

Economics and management	**23**
Economics for challenging times	6
ESG accounting and reporting	3
Marketing and sustainability in a digital world	3
Platforms and digital business models	3
Strategy and disruption	3
Sustainable and entrepreneurial finance	5

Transferabe skills and team projects	**18**
Complex problem solving in organizations	3
Introduction to ethics and critical thinking	3
Managing effective communications	2
Transformative project	10

Integration weeks	**9**
Improve your personal effectiveness	3
Improve your group effectiveness	3
Improve your organizational and societal effectiveness	3

Electives	**14**
Technology	
Analytics in operations management	3
Experience design	6
Innovation for construction and the environment	3
Life cycle assessment in energy systems	3
New tools & research strategies in personalized health	4
Robotics for society	4
Software and disruption	3
Solid waste engineering	4
Economics and management	
Advanced sustainable accounting and finance	3
Climate Entrepreneurship	5
Globalisation, robotics and the future of work	4
Legal aspect of sustainability & digitalisation	4
Nature Finance	3
Project Management: from prediction to adaptation	3
Risk analytics	3