

SCIENCES, TECHNOLOGIES AND HEALTH

Master in Industrial engineering

Génie industriel



Target level
Baccalaureate
+5



ECTS
120 credits



Duration
2 years



Component
Grenoble INP -
Génie industriel
(Conception
de produits ou
de services,
gestion de
production et
logistique), UGA



Language(s) of
instruction
English, French

Subprograms

- > Industrial engineering 1st year
- > Sustainable industrial engineering
- > Sustainable operations management 2nd year
- > Sustainable product development 2nd year
- > Sustainable Printed and Integrated Electronics program

Course co-accredited by the National Polytechnic Institute of Grenoble (Grenoble INP) and Université Grenoble Alpes

The master in Industrial engineering draws on the strength of the Grenoble cluster in the field of production systems, in both teaching (Grenoble INP School of Industrial Engineering and the PHITEM training and research unit) and research (including the G-SCOP 5272 joint research unit laboratory). In particular, it falls within the "Innovation in Markets" theme.

Presentation



This master offers three programs

- Research-oriented programs : Sustainable product development, Sustainable operations management
- Sustainable industrial engineering (SIE) : in English, international program

[More information](#)

This master trains students in the field of industrial engineering and therefore leads to all the professions in this field: from product design through to organisation and management of production systems. By its nature, industrial engineering is aimed at all kinds of industrial or service sectors.

More specifically, this master encompasses an international vocational program, and three research programmes. The

first, designed for foreign students, aims to train managers in the field of industrial engineering with a specialisation on sustainability issues relating to the product and its logistics chain. The other three programs are research-oriented and lead to careers in teaching and research (private or public) with, in particular, a target of 50% of students going on to doctoral studies. Other students tend to go into industry in France or in their countries of origin, in industrial engineering careers

- For Sustainable operations management program, in the supply chain : production, procurement, logistics engineer...
- For the Sustainable products development program, in product design careers : product engineer, calculation, simulation...

Skills

This master offers common skills on the fundamentals of industrial engineering. It trains advanced techniques of innovation and improvement of industrial performance concerning the product and its industrial organization. The 2 1st year programs are distinguished mainly by the language of instruction (100% in English for the international program and mainly in French for the other program) but allow to acquire substantially the same skills. Two UEs (in English) are also common.

International education : Internationally-oriented programmes

Organisation

Abroad internship : Abroad

Admission

Access conditions

- To be accepted for a master 1st year, you must hold a bachelor degree (licence 3rd year) or equivalent
- To be accepted for a master 2nd year, you must hold a master 1 degree or equivalent. Your previous studies must be compatible with the master you wish to study. The recruitment and registration conditions are stated for each speciality

Candidature / Application

See [Grenoble INP website](#)

Target

The master in Industrial engineering is aimed at French and international students in the following fields :

- Industrial engineering
- Supply chain, operations management, production management, logistics and transportation, operations research
- Manufacturing, design and product development, mechanical engineering, materials, electrical engineering
- IT, information systems

And after

Further studies

PhD in the field of industrial engineering

Additional information

This multidisciplinary master primarily covers the strategic research themes defined by two of the site's research clusters: MSTIC (Mathematics, Information & Communication Science and Technologies) and PEM (Physics, Engineering, Materials). Note that the Industrial Innovation Programme

is also supported by the laboratories of the SHS1 research cluster (the PACTE, GAEL and CERAG joint research units)


Training co-accredited by Institut polytechnique de Grenoble (Grenoble INP) and Université Grenoble Alpes. This partnership will result in particular in cross-course offerings for our students and this in particular with :

- These masters are complementary in the sense that they do not address the same public (SPI-STIC for industrial engineering) and moreover the industrial engineering master has clearly for 3 of these courses a research vocation
- For the international journey, we make significant use of professionals most often partners of the school: ST Microelectronics, Caterpillar, HP, CEA-INES, Schneider Electric, IDARED, the General Council of Isère, A Raymond, E2V, ...
- To this, it is necessary to add the various interventions in the other optional courses, most often occasional seminars within the framework of the relations of the research laboratories with the invited companies

Course location(s) - City

 Grenoble

Campus

 Grenoble - Doyen Gosse

Useful info

Contacts

Program director

Jean-François Boujut

✉ jean-francois.boujut@grenoble-inp.fr

Program director

Maria Di Mascolo

✉ Maria.Di-Mascolo@g-scop.grenoble-inp.fr

Program administration

Registrar's Office for the Master in Industrial Engineering

✉ genie-industriel.scolarité-master@grenoble-inp.fr

Program

Industrial engineering 1st year

Sustainable industrial engineering

Sustainable operations management 2nd year

Sustainable product development 2nd year

Sustainable Printed and Integrated Electronics program