

Sustainable operations management 2nd year

Master in Industrial engineering



Duration
1 year



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



**Language(s) of
instruction**
French

Presentation

This Master's program is meant to train professional experts in Sustainable Industrial Engineering, able to deploy skills in a global industrial environment and face the future challenges of the transitions (ecological, digital, societal).

Sustainable Industrial Engineering has myriads of application fields since it encompasses the whole value chain and lifecycle of products: from the development of new and innovative products and services, to the end of life of the systems.

The specialization in **sustainable product development** occurs in **year 2**.

The **sustainable operational management** course investigates the key domains that will give the students tools to deal with challenges related to the strong environmental impact of human activities, and provides a systemic and interdisciplinary understanding of the situation. Major topics are sustainable supply chain management, data analytics, operational excellence, socio-economic aspects of sustainability for industry 4.0. There is a significant amount of research to be carried out still and this major offers the opportunity to follow a research-oriented path that opens up to a doctoral program. The Industrial path

allows to directly claim for a job in industry. Our lectures are at the cutting edge of knowledge and involve teachers from our affiliated research laboratories, such as G-SCOP for industrial engineering (both supply chain and product development), CERAG for management sciences, PACT for sociology and GAEL for industrial economics.

You can learn more about the program on the [Grenoble INP website](#).

International education : Internationally-oriented programmes

International dimension

Between 1 and 3 UEs of 6ECTS are in English, according to the courses and the choices of the options of the students.

Admission

Access conditions

To be accepted for a master 2nd year, you must hold a master 1st 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.

Students wishing to apply to the **SIE Master program** must hold a Bachelor of Science, a Bachelor of Engineering Degree, or equivalent in:

- Industrial Engineering
- Supply Chain, Operations Management, Logistics and Transportation, Operational Research
- Manufacturing Science, Product Design, Product Development, Mechanical Engineering, Materials Science, Electrical Engineering
- Computer Science, Information Systems

Recruitment criteria :



- Entry level 1st year if BSc.
- Entry level 2nd year, only for the Research oriented track, if MSc. in Industrial Engineering or equivalent and B2 minimum level of French
- English proficiency
- Excellent academic results

Application procedure :

The application is made online through the FSA platform. It is open from **November 15, 2021**, until **April 07, 2022**.

If you are a foreign student from one of these countries :

Algeria, Argentina, Benin, Brazil, Burkina Faso, Burundi, Cameroon, Chad, Chile, China, Colombia, Comoros, Congo, Côte d'Ivoire, Democratic Republic of the Congo, Djibouti, Egypt, Gabon, Guinea, Haiti, India, Indonesia, Iran, Japan, Kuwait, Lebanon, Madagascar, Mali, Mauritania, Mauritius, Mexico, Morocco, Niger, Nigeria, Peru, Russia, Saudi Arabia, Senegal, Singapore, South Korea, Taiwan, Togo, Tunisia, Turkey, United States, Vietnam,



You must apply by "FSA" and  "Etudes en France". If you need any  advice or support, the Campus France Centre of your country can help you until your visa application.

Visa: All foreign students must obtain a visa.

All the applications will be studied in our Commission of Accreditation of Academic Acquisitions (CVAA). Applications will be examined by commissions on the following dates:

- 17/02/2022 (*Application deadline - 10/02/2022*)
- 11/03/2022 (*Application deadline - 04/03/2022*)
- 15/04/2022 (*Application deadline - 07/04/2022*)

If your application is accepted, you will be contacted for an interview (usually by videoconference). The interview will be conducted in English.

More information on  Grenoble INP website, and the  program page.

Candidature / Application

See  Grenoble INP website.

Apply on the  FSA platform.

And after

Sector(s)

The program leads 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 the Operations management program, in the supply chain : production, procurement, logistics engineer... ; for the Product development program, in product design careers : product engineer, calculation, simulation... and lastly for the Industrial innovation program, careers in innovation: innovation project management, consultants in innovation, monitoring, etc

Useful info

Contacts

Program director

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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.scolarite-master@grenoble-inp.fr

Course location(s) - City

📍 Grenoble

Campus

🏠 Grenoble - Doyen Gosse

Program

Specifics of the program

Year 1 (60 ECTS)

- Introductory courses in industrial engineering, economics, data management and sustainability
- Team projects, intercultural communication

Year 2 (60 ECTS)

- Advanced courses (core curriculum and elective courses) according to the chosen specialization (SIM or SPD, Industry or Research)
- 6-month internship (company, research laboratory)