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SCIENCES, TECHNOLOGIES, SANTÉ, INGÉNIERIE

Parcours Sustainable industrial engineering

Master Génie industriel

Université Grenoble Alpes

Durée
2 ans

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

Langue(s) d'enseignement
Anglais

Présentation

Industry is of critical importance for the global economy.
Industrial engineering is the branch of engineering that is concerned with the efficient production of industrial goods as affected by elements such as plant and procedural design, the management of materials and energy, and the integration of workers within the overall system.
Sustainable Industrial Engineering addresses the issue of sustainability of industry in three ways: from an environmental point of view, from a social and societal point of view, from an economical point of view.
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 machines, products-services to the market and recyclability

This international program allows access to industry at the end of the curriculum. It is also possible to choose a research focus that facilitates access to a doctoral program.

Formation internationale : Formation tournée vers l'international

Dimension internationale

100% full english

Admission

Conditions d'admission

To integrate a master's degree in the 1st year, you must have a 3rd year bachelor's degree or equivalent and to enter the 2nd year Master, you must hold a master 1st year or equivalent in:

- Industrial Engineering
- Supply Chain, Operations Management, Logistics and Transportation, Operational Research

Informations non contractuelles.
Dernière mise à jour le 30 juin 2026

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- Manufacturing Science, Product Design, Product Development, Mechanical Engineering, Materials Science, Electrical Engineering
- Computer Science, Information Systems

To enter the 2nd year Master, you must hold a master 1st year or equivalent. Your curriculum must be in agreement with the master you wish to integrate. The recruitment and registration procedures are specified directly at the level of specialties.

This Master's program is not open to professionnals training. It is only available for initial training.

Candidature

See Grenoble INP - Génie industriel website

Droits de scolarité

Program with specific fees.

For more information, see Grenoble INP - Génie industriel website

Pré-requis obligatoires

- English proficiency (B2 level)
- Excellence of academic results
- Professional project / career

Et après

Secteur(s) d'activité(s)

The international career path, dedicated to foreign students, aims to train executives in the field of industrial engineering with a specialization in questions of sustainability concerning the product and its logistics chain.

- **Industrial engineers with sustainable impact :** the students will be able to find jobs in industrial, mechanical, production, automation, aerospace, energy or management engineering
- **Researchers in industry :** the students will have plenty of opportunities to carry on their studies as PhD among one of the numerous international laboratories of the SIE partners (full members or associates) and the research community in the sustainable manufacturing domain.

Métiers visés

The objectives are become a:

- Project engineer
- Development or research engineer
- Business or consultant engineer
- Production and supply chain engineer
- Product architect
- Consultant in Sustainable industrial engineering

Infos pratiques

Contacts

Responsable pédagogique

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Secrétariat de scolarité

Scolarité Sustainable industrial engineering 2e année
genie-industriel.master.sie@grenoble-inp.fr

Lieu(x) ville

Grenoble

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Campus

Grenoble - Echirolles

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Programme

Organisation

The 1st year of the SIE (Sustainable Industrial Engineering) program is dedicated to the fundamentals of industrial engineering. The 2nd year offers a choice of 2 majors, one focusing on operations management and the other on product development.

- **Major Sustainable Operation Management (SOM)**

The Sustainable Operations Management Major investigates the key domains that will give the students tools to deal with these challenges 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.

- **Major Sustainable Product Development (SPD)**

The sustainable development of industrial products course studies the key areas that will give students the tools to face these challenges and provide a systemic and interdisciplinary understanding of the situation. The main topics are sustainable design, data analysis, innovation, advanced manufacturing, socio-economic aspects of sustainability for Industry 4.0.

More informations about this program on Grenoble INP - Génie industriel website.

Informations non contractuelles.
Dernière mise à jour le 30 juin 2026