

Master's degree in Systems Engineering and Innovation

Diplôme d'Ingénieur en Génie des Systèmes et de l'Innovation

At **ENSGSI**, the teaching method combines theoretical knowledge with hands-on practical experience, giving students the skills needed to thrive in the ever-evolving field of **Systems and Innovation Engineering**. Our goal is to train **creative thinkers, problem solvers and change-makers** who can drive innovation and create meaningful impact in the world.

Where Science and Engineering meet Management and Creativity

Our comprehensive programme provides a strong foundation in **Engineering principles** while **integrating advanced concepts in Systems and Innovation**. Students will be able to acquire an in-depth understanding of **complex systems**, to master **design thinking methodologies** and to explore **sustainable development practices**.



Partnerships



ENSGSI encourages a culture of openness and **collaboration and values the strength of partnerships**. We continuously seek opportunities to engage with **Academia, Research institutions as well as the industry and business world** to foster **knowledge exchange, drive innovation and promote multidisciplinary collaboration**.

Careers

Our **graduates** are equipped with **versatile skills and extensive knowledge** that position them as valuable assets across all types of roles, companies and industry sectors.

Their ability to navigate and succeed in various career paths testifies to the comprehensive education they receive.



Specificity of French “Ecole d’ingénieur”

After completing a **two-year preparatory course in sciences and mathematics**, students join the **programme in the first year at ENSGSI** (equivalent to the last year of a Bachelor’s Engineering degree). It provides a solid foundation in fundamental concepts. Following the Bachelor’s degree, there is a **2-year Master’s degree programme** where students further enhance their skills and knowledge.

The **2nd year of the Master’s degree** includes a full semester internship, which can be completed in France or abroad during the 2nd semester.

Upon successful completion of the Master’s programme, **the student is awarded an Engineering Degree** («Diplôme d’Ingénieur»).



1 st Year at ENSGSI		2 nd Year at ENSGSI		3 rd Year at ENSGSI		Master's Degree
Semester 5	Semester 6	Semester 7	Semester 8	Semester 9	Semester 10	
Last year of bachelor		Master 1		Master 2		

Undergraduate programme

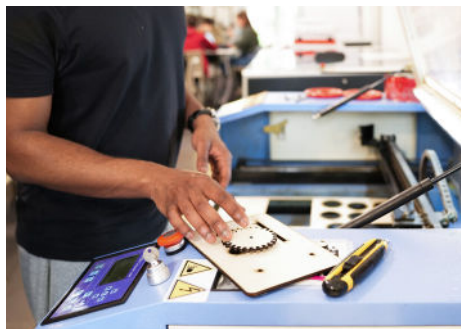
Graduate programme

Courses offered at ENSGSI

Our curriculum **encompasses** a diverse range of courses designed to provide a comprehensive education in the each field of study. Every student attends all the following courses :

- **Design/Innovation/Innovation Management**
- **Systems Engineering**
- **Industrial Engineering**
- **Mathematics & Modelling for Engineering**
- **Chemical and Process Engineering**
- **Materials Engineering**
- **Mechanical and Energy Engineering**
- **Project Management**
- **Sustainable Development, HSQE Health, Safety, Quality and Environment**
- **Management, Human Skills, Career and Personal Objectives**
- **Modern languages, self-study language courses**
- **Entrepreneurship Management**
- **Industrial Projects***
- **Internships** (a full semester internship in France or abroad)

* Specificity of the industrial projects course: in the 1st and 2nd year, students actively participate in 2 distinct industrial projects on a weekly basis, working in small groups of 4-5. These projects provide practical collaboration with different companies.



International

INCOMING:

International students can apply for an exchange semester, an international double degree or as a regular student.

OUR INTERNATIONAL DOUBLE DEGREES:

- **Germany**, RPTU Kaiserslautern
- **Spain**, Universidad Politécnica de Catalunya Barcelona
- **Argentina**, Universidad Nacional de Cuyo
- **Brazil**, Universidade Federal de São Carlos
- **Brazil**, Universidad Federal de Viçosa
- **Chile**, Universidad Santiago de Chile
- **Colombia**, Universidad Nacional de Bogotá
- **Morocco**, Ecole Supérieur des Mines de Rabat



OUTGOING:

international mobility is a requirement of the curriculum, all our regular students have to spend a semester studying or working in a foreign country.

SOME OF OUR PARTNERS:

- **Argentina:** Universidad Nacional de Cuyo
- **Belgium:** Universiteit Hasselt
- **Brazil:**
 - Universidade Federal de São Carlos
 - Universidade Federal de Viçosa
- **Chile:** Universidad de Santiago de Chile
- **Colombia:** Universidad Nacional de Bogotá
- **Costa Rica:** Instituto Tecnológico de Costa Rica
- **Czech Republic:** Czech Technical University in Prague
- **Denmark:** South Denmark University
- **Finland:** Lappeenranta University of Technology
- **Germany:**
 - RPTU Kaiserslautern
 - KIT Karlsruhe
 - Hochschule Mannheim
- **Italy:**
 - Politecnico di Milano
 - Politecnico di Torino
- **Mexico:** Instituto Tecnológico de Monterrey
- **Morocco:** Ecole Nationale Supérieure des Mines de Rabat
- **Netherlands:** Delft University of Technology
- **Portugal:**
 - Instituto Politécnico do Porto
 - Universidad Nova de Lisboa
- **Romania:** University Politehnica of Bucharest
- **Spain:**
 - Universidad Del País Vasco
 - Universidad Politécnica de Catalunya Barcelona
 - Universidad Politécnica Madrid
- **Sweden:** Luleå University
- **Switzerland:** Haute Ecole de Suisse HES- SO Valais
- **Tunisia:** North American Private University of Sfax



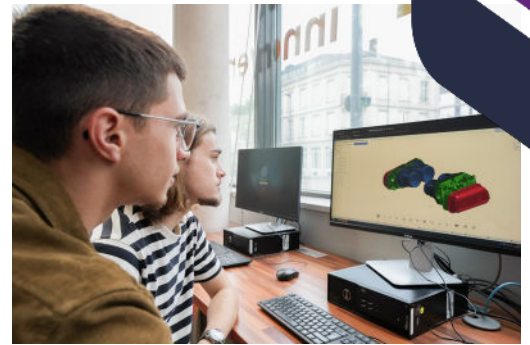
Find out more on our website: ensgsi.univ-lorraine.fr



Other degrees offered at ENSGSI

MASTER'S DEGREE IN DESIGN & INNOVATION (IDEAS)

The **2nd year Master's Degree in Design & Innovation** offers a focused curriculum that **cultivates expertise in design thinking and innovation**. Students engage in **user-centered design approaches, prototyping, and market analysis, empowering them to drive innovation and create transformative experiences**.



MASTER'S DEGREE IN URBAN INNOVATION (IUVTT)

The specialized **2nd year Master Degree in Urban Innovation** delves into the **dynamic intersection of technology, sustainability, and urban development**.

Students gain a **profound understanding of the complexities of urbanization and acquire strategies for designing smart and resilient cities**. Graduates are empowered to contribute to sustainable urban development and shape the future of urban communities.



PhD

The **PhD program at ENSGSI** offers an immersive research experience for aspiring scholars in the field of **Systems and Innovation Engineering in the laboratory ERPI**. Doctoral candidates engage in cutting-edge research projects, collaborating with faculty members to advance knowledge in their chosen area of expertise.

This PhD program is open to international students, holding a Master's degree.

erpi.univ-lorraine.fr



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