



2024 — 2025

# **French Graduate School of Science and Engineering**

**Lille, the heart of Europe**

**Programs taught in English**

[JUNIA.COM](https://www.junia.com)



## Key figures



**90%**

of employment  
within 6 months



**650**

international students  
/ 65 nationalities



**French**

language classes



**1 internship**

every year



**34 000**

alumni

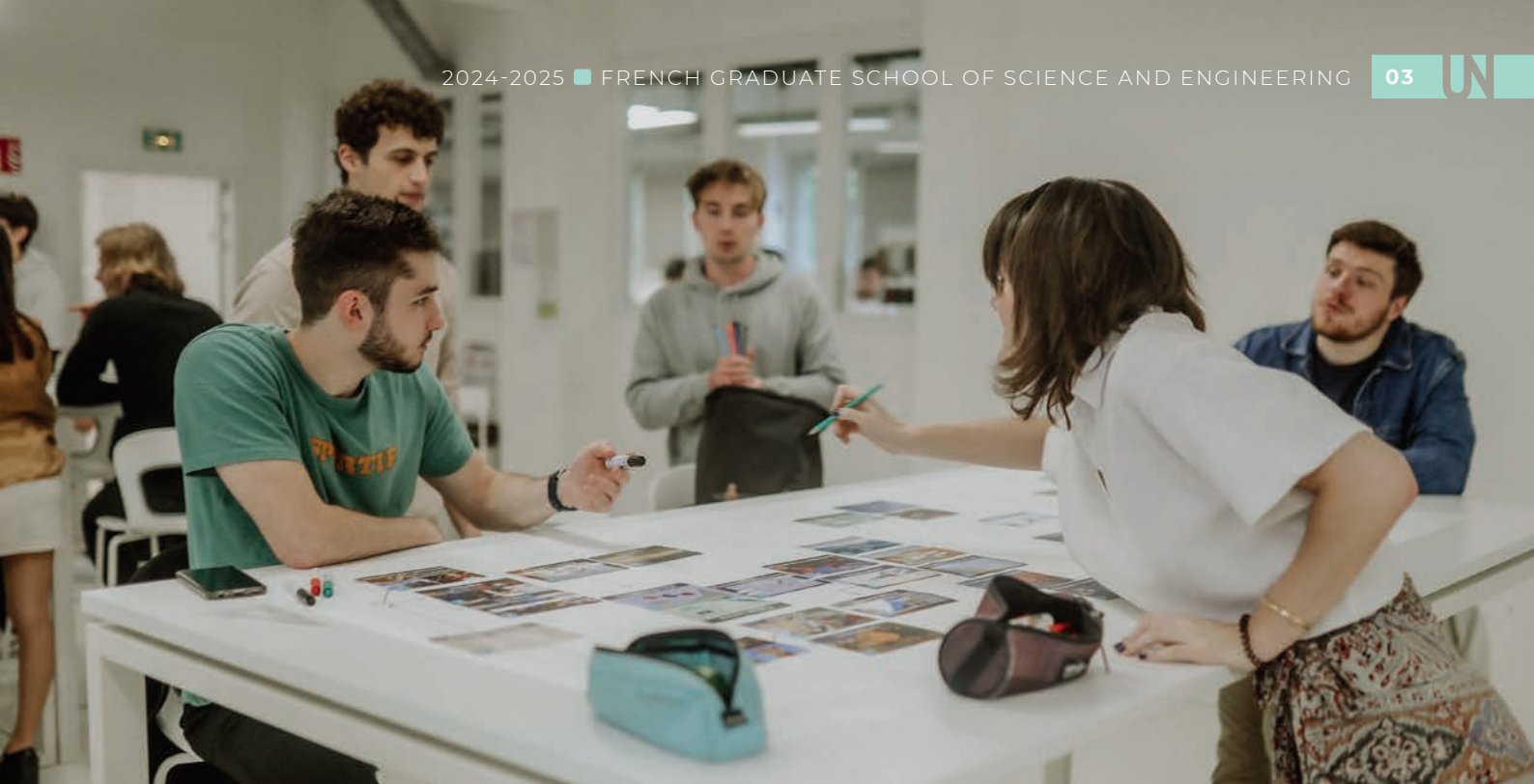
# Junia's ambition is to continue to be a leader in an ever-changing world.

Through our academic programs and scientific expertise, we are supporting four major transitions that our world is facing:

- Feed the planet sustainably
- Accelerate energy and urban transitions
- Develop digital and industrial transition
- Reinforce health care and well-being technologies

From AI to Food Science, from Smart Farming to Renewable Energy, from Smart and Resilient Cities to Environmental Science, the wide range of specializations offered in our Master of Science and Engineering degrees are designed to address the multi-faceted challenges of our future.

Our modern campuses in **Lille**, **Bordeaux** and **Châteauroux** equipped with Fab Lab, co-design centers, demonstrators and more offer an enhanced student experience.



## Active pedagogy: learning-by-doing



**Field trips  
and site visits**



**Co-design  
labs**



**Innovation  
learning centers**



**Study tours  
in Europe**



**Flipped classrooms  
and serious games**



**Group projects supervised  
by professionals**

Students learn through project-based learning, individual and group work, case studies and field visits. Internships in companies or research institutes allow students to confront the reality of the professional world and to be ready and competitive for the job market.

## Internships and professional experience

Students spend at least **30% of the program** immersed in real professional experience.

These internships carried out either in France or abroad, in a company or a laboratory, prepare students for entry into the global workforce.

Our **Career center** organizes recruitment fairs with our **+ 250 partner companies**, job dating events and alumni conferences to allow our students to develop their professional network and to guide them through their professional journey.

# Career Center

An impressive 90% of our graduates find a job within 6 months of graduation, or before they even finish their studies.

Junia's career center empowers all of our students to take charge of their career goals by helping them develop a career plan, connecting them with industry leaders, and equipping them with the tools and knowledge to be competitive in a globalized workforce.

## Services offered by the Career Center include:

- Full course dedicated to developing a career plan and professional network, along with professional writing workshops (in French and English)
- More than 30 Career Center and alumni conferences held each year
- Mock interviews
- Regular recruitment events, including Junia International Job Dating
- Exclusive access to online platforms for internship and job hunting
- Access to a robust international alumni network
- Full-time staff available for one-on-one meetings to advise students in French or English

## Each year, the Career Center organises 3 major recruitment events:

- **Junia Career Fair:** in person at the Lille Grand Palais (one of the main exhibition center in Lille), attended by over 165 companies
- **Junia International Job Dating event,** 100% remote, with over 45 companies offering opportunities of internships and jobs
- **Work-Study training Job Fair,** 100% online, with over 180 companies to help you find a work-study contract

Discover  
information:





## Lille, a cultural destination at the heart of Europe!

Student life in Lille is more than just studying. Lille is located in the North of France. It's the capital of the Hauts-de-France region, has an exceptional cultural vitality, and is famous for its architectural splendor.

Lille has established itself as an absolute must-see cultural destination in France.

The city of Lille lives with the flow of its cultural events, concerts, shows and its student life (more than 100,000 students). Consistently voted one of the friendliest cities in France, Lille is a great place to learn and live.

Lille is also at the heart of Europe, with easy travel to world capitals: Brussels, London, Paris, Amsterdam, Rome, Berlin and everywhere in between. This central location makes Lille an ideal place for exploring Europe, whether it is during a class excursion, or on your own travel adventures.

## Our campus

Junia is the School of Science and Engineering of **Lille Catholic University**, France's largest private not-for-profit university since 1875.



**40 000**  
students



**8 000**  
international  
students



**350**  
degree  
programs

**Located in the city center of Lille**, Junia's main campus offers everything you need:

- **student facilities: restaurants, residence halls, sports complex, health center,**
- **environmentally-friendly campus surrounded by parks and green spaces,**
- **a dynamic student life with numerous student associations on campus (musics, sport, theatre, gastronomy...).**

Junia also has 2 other campuses located in Chateauroux and Bordeaux.



Discover  
information:





# Student life

With more than 100 associations, JUNIA has a very rich social life!

## The Student Union

The **Student Union** organises and leads the social life at JUNIA. You can join an existing association or create your own.

With over a hundred student associations to choose from, you're sure to find what you're looking for:

- **Arts:** fine arts, cinema, photography, video, comics, theatre, classical music, oenology, cooking...
- **Humanitarian:** tutoring, social work, humanitarian missions (in Senegal, the Philippines, Madagascar, Mexico, Benin...)
- **Events and Services:** radio, galas, travel arrangements, IT support, welcoming new and international students, promotion of the school...
- **Enterprise and Technology:** entrepreneurship club, junior enterprise, conference organisation, e-sports, robotics, IT, virtual reality...

## The JUNIA Sports Association

The **JUNIA Sports Association (JUNIA AS)** is in charge of sports activities. More than 40 sports are available to the students:

- **Team sports:** football, volleyball, basketball, rugby, handball, futsal, field hockey, US soccer...
- **Individual sports:** tennis, horse riding, archery, badminton, athletics, dance climbing, golf...
- **Water sports:** sailing, swimming, kitesurfing, cruising, rowing, water polo...
- **Martial arts:** fencing, judo, kickboxing...



## UNDERGRADUATE PROGRAM IN ENGLISH - SPECIALIZATION IN Engineering

JUNIA's International Preparatory Course is a foundation course of JUNIA's 5-year track engineering program. This Undergraduate program includes courses in **science**, **humanities**, and **project management** with the option to specialize in **mechanical engineering and IT** in the 2<sup>nd</sup> year.

### The program sequence

- **Year 1:** foundation course in science, humanities and project management
- **Year 2:** technical courses in engineering and IT
- **Year 3:** year abroad at a partner University  
OR stay in France at JUNIA (for a program in French)
- **Years 4 and 5:** choose one of the JUNIA Master programs in engineering or digital science (in English or French)

### Exchange year abroad

Students can choose to continue their 3<sup>rd</sup> year abroad at one of the JUNIA partner universities.

Depending on their specialization, they have a range of options in the **USA, Mexico, Argentina, Germany, Spain, Thailand, India, Italy, Jordan, Austria and many more.**

### Admission requirements

IB (high school degree) or French baccalauréat specializing in mathematics, physics and any related scientific field, B2 level in English.



2025-2026 Tuition fees:  
**€8 500/year**

For more information  
about the program:  
scan this QR code



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MASTER OF SCIENCE AND ENGINEERING IN

# Artificial intelligence

Cti  
Commission  
des titres d'ingénieurTaught  
in English

## 2-year program

### Course content:

- Artificial Intelligence and advanced machine learning
- Natural language processing
- Hardware artificial intelligence
- Generative artificial intelligence
- Reinforcement learning
- 3D Programming and virtual reality
- Data report and business intelligence
- Web technologies
- Computer vision
- Cloud computing
- Humanities and management

**+ 2 internships****+ Projects supervised by professionals**

## Admission requirements

Bachelor's degree in Digital and Information technology, IT Engineering or any related fields, B2 level in English.

**2025-2026 Tuition fees:  
€9 500/year**

*For more information  
about the program, contact*

✉ [international.information@junia.com](mailto:international.information@junia.com)





Taught  
in English

## MASTER OF SCIENCE AND ENGINEERING IN

# Big data

### 2-year program

#### Course content:

- Data report, visualization
- Advanced statistical analysis
- Automated model deployment for data analysis
- Artificial intelligence
- Operation research
- Advanced machine learning
- Block chain
- Cloud and computing architecture
- Ethics and Jurisdiction
- IT risk and management
- Humanities and management



+ 2 internships



+ Projects  
supervised by  
professionals

### Admission requirements

Bachelor's degree in Digital and Information technology, IT Engineering or any related fields.

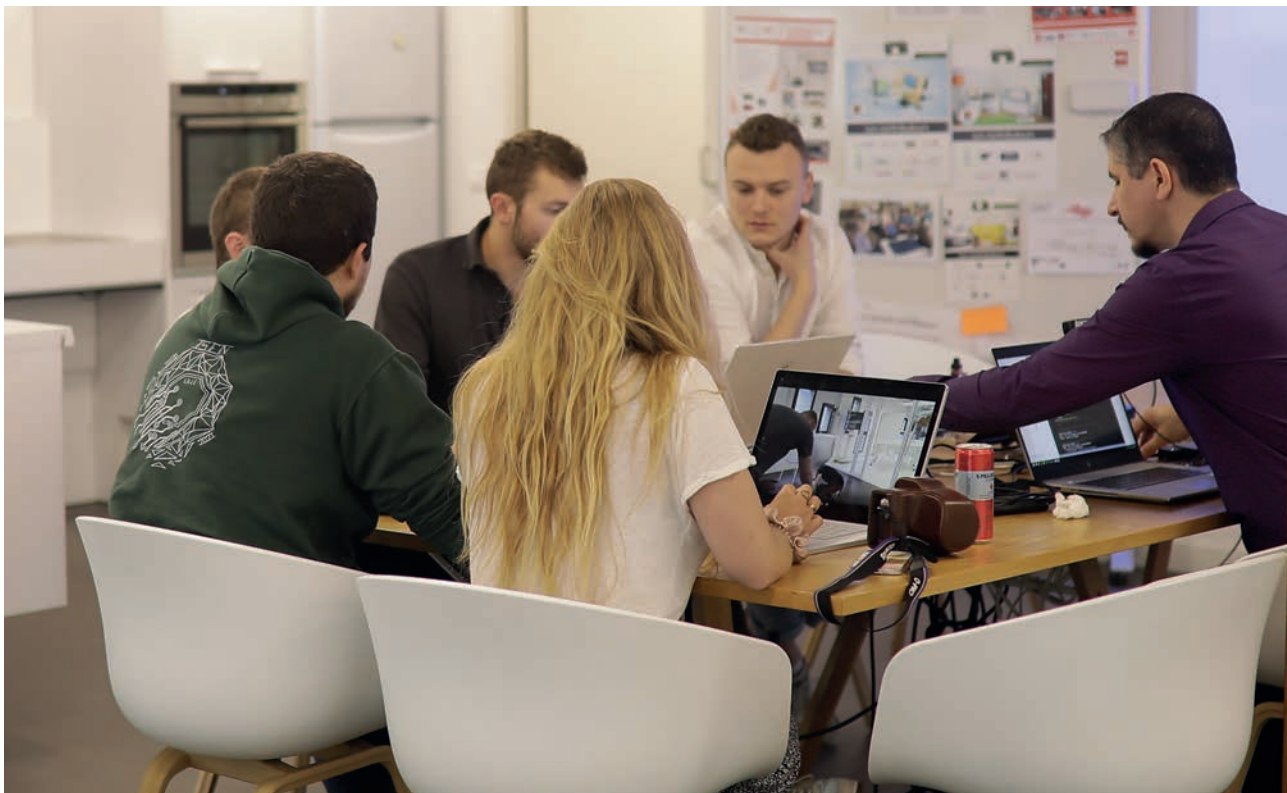


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MASTER OF SCIENCE AND ENGINEERING IN

# Software engineering and information systems

Taught  
in English

## 2-year program

### Course content:

- Web technologies and mobile development
- Development of Applications and services in Java
- Object-oriented design
- Quality-driven software development
- Infrastructures for application deployment
- Introduction to artificial intelligence
- Linux script programming
- Basic and advanced networking
- Cloud computing and architecture
- Design and implementation of relational databases
- IT risk and management
- Humanities and management

**+ 2 internships****+ Projects supervised by professionals**

## Admission requirements

Bachelor's degree in Digital and Information technology, IT Engineering or any related fields, B2 level in English.



2025-2026 Tuition fees:  
**€9 500/year**

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Taught  
in English

MASTER OF SCIENCE AND ENGINEERING IN

# Embedded electronics systems

## 2-year program

### Course content:

- Digital microelectronics circuits
- Microwave circuits
- Digital programmable circuits - FPGA and VHDL
- Hands-on 32-bits ARM Microcontrollers
- Advanced digital signal processing
- Power electronics, wireless technologies and applications
- Mixed-signal integrated circuits for audio applications
- High-frequency electronics
- Real-time computing for embedded systems
- Humanities and management



+ 2 internships



+ Projects supervised by professionals

## Admission requirements

Bachelor's degree in Digital and Information Technology, IT Engineering or any related fields, B2 level in English.



2025-2026 Tuition fees:  
**€9 500/year**

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MASTER OF SCIENCE AND ENGINEERING IN

# Microelectronics and nanotechnologies

Taught  
in English

## 2-year program

### Course content:

- Digital Microelectronics Circuits
- Semiconductors physics and components
- Waves and Components (Labs)
- Sensors and actuators, mechanics, acoustics
- Microelectronics
- Wireless Technologies and Applications
- Optoelectronics
- Hardware / software interfacing
- Energy Harvesting
- Health applications
- Humanities and management

**+ 2 internships****+ Projects  
supervised by  
professionals**

## Admission requirements

Bachelor's Degree in Physics,  
Electronics or equivalent,  
B2 level in English.

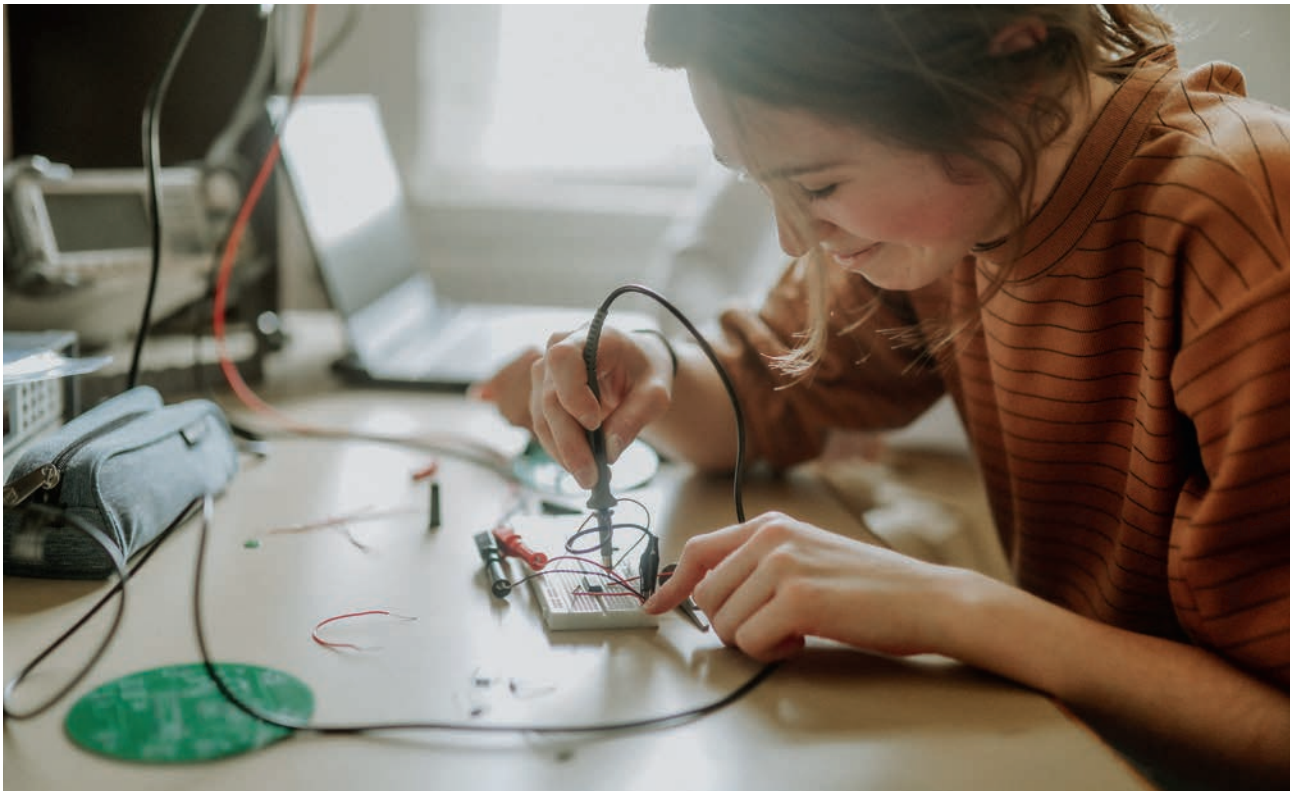


2025-2026 Tuition fees:  
**€9 500/year**

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Taught  
in English

## MASTER OF SCIENCE AND ENGINEERING IN Biomedical and health informatics

### 2-year program

#### Course content:

- Introduction to digital health
- Miniaturization of biological techniques
- Bioinformatics
- Network and system base
- Relational and non-relational databases
- Advanced machine Learning
- Artificial intelligence applied to health
- Health management
- Biostatistics
- Cloud computing and Architecture
- Humanities and management



+ 2 internships



+ Projects  
supervised by  
professionals

### Admission requirements

Bachelor's degree in Digital and Information Technology, IT Engineering or any related fields, B2 level in English.

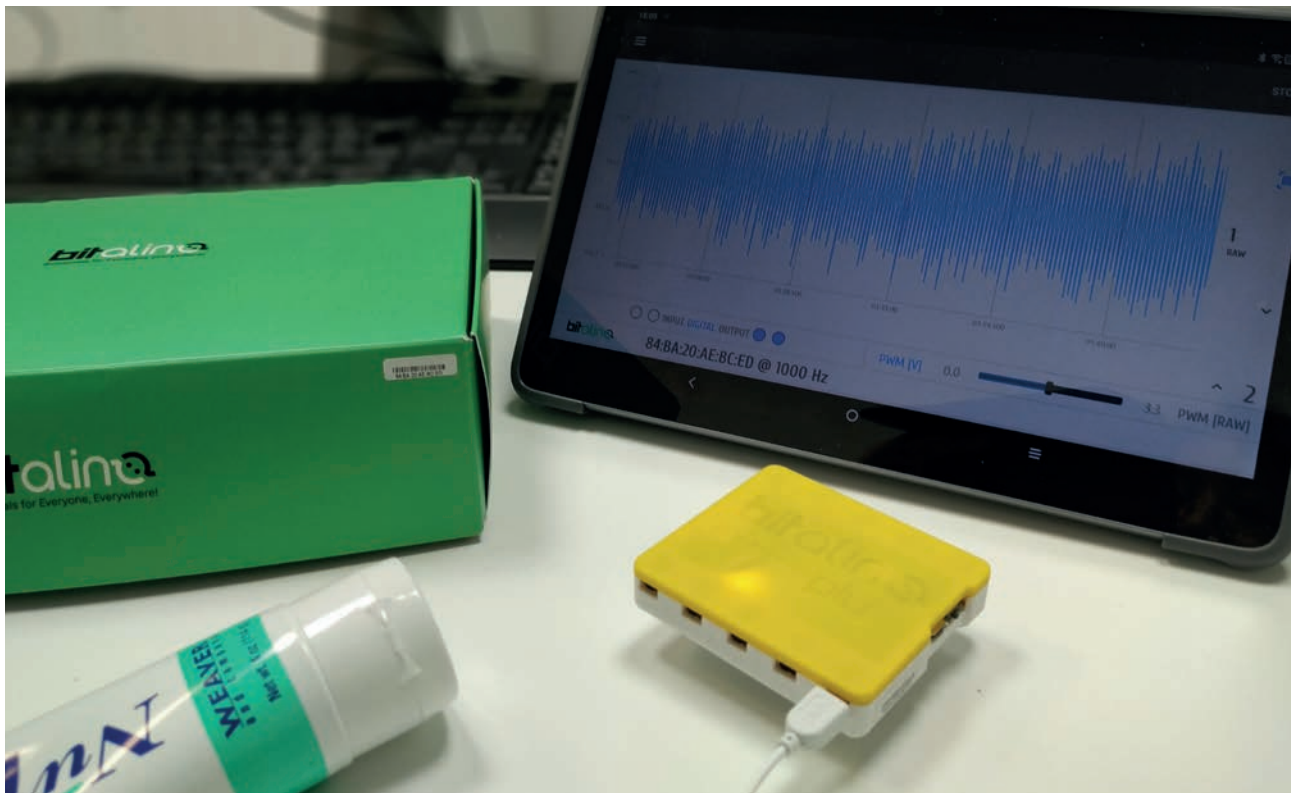


2025-2026 Tuition fees:  
**€9 500/year**

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about the program:  
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MASTER OF SCIENCE AND ENGINEERING IN

# Innovation and management in the food industry



Taught  
in English

## 2-year program

### Course content:

- Biochemistry and Microbiology in food
- Quality Management and HACCP
- Food Chain
- Bioprocess
- Production Management
- Food Technology Project
- Ingredients
- Nutrition
- Sensory Evaluation
- Chemistry
- Microbiological Characterization of Food Products
- Humanities and management



+ 2 internships



+ Projects supervised by professionals

+ Study tours in Europe

+ Lecturers from industries

## Admission requirements

Bachelor's Degree in Life Sciences (Agriculture, Food Science, Biology or any related field), B2 level in English.



2025-2026 Tuition fees:  
**€9 500/year**

For more information  
about the courses,  
projects and  
internships examples:  
scan this QR code



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Taught  
in English

MASTER OF SCIENCE AND ENGINEERING IN

# Smart farming and sustainable agriculture

## 2-year program

### Course content:

- Food Chains
- Biocontrol
- Animal Welfare
- Plant Biotechnologies
- Precision Livestock Farming
- Agriculture and Climate Change
- Plant Breeding and Genetics
- Livestock Housing and Building Conception
- Livestock Production Systems
- Humanities and management



+ 2 internships



+ Projects supervised by professionals

+ Site visits and fields trips

## Admission requirements

Bachelor's Degree in Life Sciences (Agriculture, Biology or any related field), B2 level in English.



2025-2026 Tuition fees:  
**€9 500/year**

For more information  
about the program:  
scan this QR code



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MASTER OF SCIENCE IN

# Environmental science and pollution management

**INSA**  
 INSTITUT NATIONAL  
 DES SCIENCES  
 APPLIQUÉES  
 HAUTS-DE-FRANCE


 Université  
 Polytechnique  
 HAUTS-DE-FRANCE

 Taught  
 in English

## 2-year program

### Course content:

- Environmental pollution
- (Eco)Toxicology
- Green transition and climate change
- Waste water and drinking water treatment
- Water resource management
- Waste management
- GIS
- Soil ecology
- Environmental remediation



+ 2 internships



+ Visiting professors  
from international  
partner universities

+ Fields trips  
and study tours  
in Europe

## Admission requirements

Bachelor's Degree in Life Sciences (Agriculture, Food Science, Biology or any related field), B2 level in English.



2025-2026 Tuition fees:  
**€9 500/year**

For more information  
about the courses,  
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internships examples:  
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Taught  
in English

MASTER OF SCIENCE IN

# Smart and resilient cities

## 2-year program

### Course content:

- Innovation and The City
- Green Building and New Spaces
- Environmental Urban Design
- Smart and Sustainable Mobility
- Communication and Corporated Tools
- Studio
- Smart Energy
- Connected City
- Major Urban Challenges
- Governability and New Business model for the city
- Low Carbon and Sustainable City



+ 2 internships



+ Projects supervised by professionals

+ Study tours in Europe

## Admission requirements

Bachelor degree in Architecture or Urban Planning, B2 level in English.



2025-2026 Tuition fees:  
**€9 500/year**

For more information about the program: scan this QR code



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# Practical information

## Application procedure

For Master level:  
**November 4<sup>th</sup>, 2024**

For Bachelor level:  
**January 8<sup>th</sup>, 2025**

**May 15<sup>th</sup>,  
2025**

**September  
2025**



Application  
opening



Online application on  
**admissions.junia.com**



Individual interview  
(online)



Application  
deadline



One intake



## Language requirements

English B2 level certified by an official test: **IELTS, TOEIC, TOEFL IBT or FIRST.**

French is not required for admission.

A B1 level is required at the time of graduation.

All international students are offered intensive classes of French during their studies at JUNIA.

## Financial aspects

- Living expenses in Lille: **approx. €850/month**
- Miscellaneous fees (insurance, visa...): **approx. €650/year**

## Scholarships and financial aid

- Scholarships: **refer to your local French Embassy or Campus France office**
- Salary for mandatory graduate level internships if carried out in France: **min. €555/month**
- French government housing allowance: **approx. 90€/month**

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Apply now:





## Student services

Dedicated support just for you:

- accommodation in student residences,
- administrative procedures: visa, resident permit, health insurance, etc.,
- integration into student life: students unions, sport activities, international parties, etc.,
- welcome session: intensive French language and intercultural communication courses, orientation week, and more.

✉ [incoming@junia.com](mailto:incoming@junia.com)

## Discover our academic offer in French

If you want to study in French, JUNIA also offers more than 30 programs in French, scan this QR code below to discover them. Language proficiency (B2 level) in French is mandatory with an official certificate.

*For more information:  
scan this QR code*



✉ [international.information@junia.com](mailto:international.information@junia.com)

# TOP 5 good reasons to study at Junia

- 1 **Increase** your employability with a transdisciplinary, whole-person education focused on active learning and hands-on experiences
- 2 **Build** a customized training plan to fit your interests and career goals
- 3 **Develop** an international profile living and studying in a multicultural environment
- 4 **Enjoy** a rich and diverse student life in a vibrant city at the crossroads of Europe
- 5 **Benefit** from a robust global alumni network



**JUNIA** Grande école d'ingénieurs  
HEI-ISEN-ISA



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[www.junia.com](http://www.junia.com)



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PLAQUETTE

