

# Master of Science and Engineering in Agricultural Science

English taught program



JUNIA ISA's Agricultural Science Master program focuses on optimizing the process of plant and animal production using best agricultural practices and applying new technologies (**Smart farming**). With a comprehensive understanding of current issues, our graduates are actors of **innovative and sustainable agriculture**, prepared to face the ongoing and future challenges in the agricultural sector.

## active pedagogy

Our Agricultural Science program is built on project-based learning, active teaching methods and learning-by-doing. With our hands-on approach and piecemeal training options, students gain real world experience and the power to decide how to build their own expertise.

### LEARNING BY DOING

- Field trips & site visits
- Teaching and group projects supervised by professionals
- Innovation learning centers
- Flipped classrooms & serious games
- Co-design labs with partner schools
- Organisation of conferences and debates

## projects

Semester-long team projects are an integral part of the curriculum. One day a week is dedicated to group projects in collaboration with a professional expert, partner company, or research institute and supervised by a professor.

### EXAMPLES OF PROJECTS

- Evaluation of carbon sequestration by the hedges and trees
- Development of a weeding robot
- Cover crops choice for farmers
- Design of a dashboard for the urban agriculture modules management
- Optimization of green spaces and their maintenance costs
- Integration of chickens in orchards for interaction improvements

## internships

Students spend 40% of the program immersed in real professional experience. These internships, carried out either in France or abroad, in a company or a laboratory, expose students to the reality of working in the field and on research and prepare them for entry into the global workforce.

### EXAMPLES OF INTERNSHIPS

- Experiments in Aeroponics and hydroponics systems
- Environmental impacts of the use of decision support tools
- Biostimulating effects analysis of innovative molecules
- Evaluation of diseases resistance of seeds
- Field experiment on the impact of different practices (ex : flower strips, cover cropping) on a pest
- Sustainability assessment of a production system or a practice

## become a specialist

In the second year of the Master, students deepen their knowledge of the technical and sociological aspects of farming.

- **Sustainable Agriculture and Smart Farming:** study technology and innovation in all areas of agriculture, notably precision agriculture, sustainable development, and agroecology.

## your career prospects

Armed with solid technical and managerial skills, JUNIA ISA graduates are prepared for the reality of the professional world even before they get their diploma, which is why **90% of JUNIA ISA alumni are employed within 6 months of graduating.**

Our more than 26,000 alumni work around the world, for some of the biggest names in agrofood, environmental management and agriculture, or join and create their own start-ups, thanks to the entrepreneurship cultivated at JUNIA ISA.

# Practical information

## admission requirements

- Bachelor's Degree in Life Sciences (Agriculture, Biology or any related field)
- English B2 level certified by an official test: IELTS, TOEIC, TOEFL IBT or FIRST
- French is not required for admission, but recommended

## application procedure

- Complete your online application on [admissions.junia.com](https://admissions.junia.com),
- Have an individual interview (online)
- Application deadline: **May 15<sup>th</sup>, 2024**

## financial aspects

### Fees and other expenses

- Tuition fees : 9,000€ / year (18,000€ for the 2-year program)
- Living expenses in France: 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
- Paid internships if carried out in France: min. €555/month
- French government housing allowance: approx. 90€/month

## international student services

### Dedicated support just for you

- Reservation of accommodation in a student residence
- Administrative procedures (visa, resident permit, etc.)
- Integration into student life (associations, activities, etc.)
- Welcome session: French language, intercultural communication, orientation week, and more.

### MASTER 1

		ECTS
Fall Semester	Welcome Session and Introduction Weeks	6
	Introduction to Project in Agriculture	6
	Food Chains	3
	Biocontrol (Crop Protection)	3
	Animal Welfare	3
	Plan Biotechnologies	6
	French as a Foreign Language	3
Spring Semester	Precision Livestock Farming	3
	Agriculture and Climate Change	3
	Project in Agriculture	6
	Plant Breeding and Genetics	3
	Livestock Housing and Building Conception	3
	Livestock Production Systems	6
	French as a Foreign Language	3
Summer Internship	3-month Internship in a company, a professional organization or a lab, Report	6

### MASTER 2

		ECTS
Fall Semester	Specialization: - Sustainable Agriculture and Smart Farming	30
Spring Semester	End-of-study Internship: 6 months in a lab, company or professional organization Final Thesis Report + Oral Defense	30

Course details are subject to change, please visit [junia.com](https://junia.com) for the latest information

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