

# MASTER OF SCIENCE AND ENGINEERING

## *in Agricultural Science*

ENGLISH  
TAUGHT  
PROGRAM



### THE PROGRAM

ISA Lille's Agricultural Science program focuses on optimizing the process of plant and animal production using best business practices and applying new technologies. 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. This hands-on approach gives students real-world experience and the power to decide how to build their own expertise.

#### 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.

#### 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.

#### 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

#### EXAMPLES OF PROJECTS

- › Farming by Satellite: New Technology in Agriculture
- › Aquaponics
- › Development of Plants for Medicinal Purposes
- › Urban Farming
- › Conversion of Farms from Conventional to Organic Farming Systems

#### EXAMPLES OF INTERNSHIPS

- › Feasibility study of conversion to organic farming
- › Replacement of pesticides by ecological alternatives
- › Links between animal feeding and meat quality
- › Dairy cow welfare research
- › Drone imagery in experimental agriculture

THEY TRUST IN US:



yncréa  
HAUTS-DE-FRANCE

## BECOME A SPECIALIST

In the second year of the Master, students deepen their knowledge of the technical and sociological aspects of farming, as well as specialize in:

- › **Sustainable Agriculture and Smart Farming:** studies 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, ISA Lille graduates are prepared for the reality of the professional world even before they get their diploma, which is why **90% of ISA Lille alumni are employed within 6 months of graduating.**

Our more than 5,000 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 ISA Lille.

# PRACTICAL INFORMATION

## ADMISSION REQUIREMENTS

- › Bachelor's Degree in Life Sciences (Agriculture, Food Science, Biology or any related field)
- › English level certified by an official test: IELTS 6.0, TOEIC 785, TOEFL IBT 80
- › French is not required for admission, but recommended

## APPLICATION PROCEDURE

Applicants should contact the ISA International Office at [isa.admission.international@yncrea.fr](mailto:isa.admission.international@yncrea.fr) and:

- › Fill in the application form, available for download at [isa-lille.com](http://isa-lille.com)
- › Take the online scientific assessment
- › Have an individual interview (face-to-face or video conference)
- › Application deadline: **May 23, 2020**

## FINANCIAL ASPECTS

### Fees and other expenses

- › Program Costs: Contact [isa.international@yncrea.fr](mailto:isa.international@yncrea.fr)
- › Living expenses in France: approx. €650/month
- › Miscellaneous fees (insurance, visa, etc): approx. €500/year

### Scholarships and financial aid

- › Scholarships Available: Refer to your local French Embassy or contact the ISA International Office
- › Paid internships if carried out in France: min. €555/month
- › French government housing allowance: approx. €90/month

## CONTACT

### ISA INTERNATIONAL OFFICE

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WWW.ISA-LILLE.COM ISA.INTernational@YNCREA.FR



# MASTER 1

## FALL SEMESTER

	ECTS
WELCOME SESSION	6
RUMINANT NUTRITION AND ROUGHAGE SYSTEMS	3
URBAN FARMING	3
PLANT BIOTECHNOLOGIES	6
PLANT BREEDING AND GENETICS	3
PRECISION LIVESTOCK FARMING	3
CROP MODELING	3
PROJECT IN AGRICULTURE	6
FRENCH AS A FOREIGN LANGUAGE	3

## SPRING SEMESTER

	ECTS
ANIMAL WELFARE	3
AGRICULTURE AND CLIMATE CHANGE	3
LIVESTOCK HOUSING AND BUILDING CONCEPTION	3
GLOBAL FOOD POLITICS	3
APPLIED AGRICULTURAL SCIENCES - SPECIALIZED CROPS	3
LIVESTOCK PRODUCTION SYSTEMS	6
INTRO TO SMART FARMING - PRECISION LIVESTOCK FARMING	3
PROJECT IN AGRICULTURE	6
FRENCH AS A FOREIGN LANGUAGE	3

## SUMMER INTERNSHIP

	ECTS
3-MONTH INTERNSHIP IN A LAB, COMPANY OR PROFESSIONAL ORGANIZATION, REPORT + ORAL DEFENSE	6

# MASTER 2

## FALL SEMESTER

	ECTS
SPECIALIZATION: - SUSTAINABLE AGRICULTURE AND SMART FARMING	30

## SPRING SEMESTER

	ECTS
END-OF-STUDY INTERNSHIP: 6 MONTHS IN A LAB, COMPANY OR PROFESSIONAL ORGANIZATION THESIS REPORT + ORAL DEFENSE	30

Course details are subject to change, please visit [isa-lille.com](http://isa-lille.com) for the latest information

## 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.

