

# Master of Science in Environmental Science

English taught program



What sets JUNIA ISA's Environmental Science Master program apart is the hands-on approach to gaining technical expertise in the sustainable management of polluted sites. Our graduates are fully-operational executives and researchers in **sustainable pollution management**, thanks to substantive experience in the field and in an international context, both in France and other European countries.

## active pedagogy

Our Environmental Science Master 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 & study tours
- Teaching and group projects supervised by professionals
- Innovation learning centers
- Flipped classrooms & serious games
- Co-design labs with partner schools

## 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

- Optimization of biological in situ degradation technologies on chlorinated solvents in saturated zone
- Implementing an innovative recycling chain of excavated soil
- Effect of Climate Change on environmental fate of pesticides in water or soils

## 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

- Use of natural substances as adsorbents for pollutant removal from discharge water
- Biodegradation of plastic in marine waters
- Application of phytoremediation in mine related rehabilitation works
- Assistant engineer in soil remediation company

## become a specialist

In the second year of the Master, students deepen their knowledge of the management of polluted sites, by focusing on the different techniques for pollution treatment, as well as social management and economic aspects for the rehabilitation of such sites.

## career prospects

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
- Master of Science degree will be awarded by UPHF\*

### 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	3
	Pollutants in the Environment	6
	Pollution in Biotic and Abiotic Matrixes	3
	Toxicology and Ecotoxicology	6
	Biostatistics	3
	Semester Project	6
	French as a Foreign language	3
Spring Semester	Water and Sediment Management and Treatment	8
	Waste Management and Circular Economy	2
	Soil Investigation	6
	Soil Ecology	2
	French as a Foreign Language	3
Summer Internship	4 to 5-month Internship in a lab, company or professional organization, report + oral defence	9

## MASTER 2

		ECTS
Fall Semester	Physical / Chemical / Biological Remediation	6
	Phytomanagement	3
	Sustainable Management of Polluted Areas	2
	Ecological Restoration	3
	Human Risk Assessment	2
	Geostatistics	3
	Project management	6
	Communication Tools	2
	French as a Foreign Language	3
Spring Semester	Final Internship	30

\*This Master of Science program (fully organised by JUNIA) is a specialisation track of the Master QHSE - Energie et Environment of the Université Polytechnique des Hauts-de-France and INSA Valenciennes.

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