

# MASTER'S DEGREE

## ENVIRONMENTAL HAZARDS AND NUCLEAR SAFETY





CFA  
ENSUP  
LR\*  
Sud de France



## INTRODUCTION

The ENVIRONMENTAL HAZARDS AND NUCLEAR SAFETY master's degree focuses on the management of environmental risks to ensure safety and security in the field of nuclear energy.

With support from industry professionals and a multidisciplinary teaching team, this course, which includes a sandwich course in the second year, provides a real springboard to employment.

## OBJECTIVES

The master's degree is focused on professionalization. It enables graduates to be recognized in the field of nuclear energy as engineering and consultancy specialists in security, safety, quality and protection of the environment.

Rooted in advanced scientific knowledge of processes and hazards, tools for risk management are introduced, from risk prevention to crisis and post-crisis management.

The master's degree enables graduates to take responsibility for and work autonomously on project management, in risk management.

## ENTRY REQUIREMENTS

- **The course is aimed at students with a scientific bachelor's degree in environmental science, earth science, physics, biology or chemistry, risk sciences, or radiation protection (access in year 1) or 60 ECTS from a master's program in these fields (access in year 2).**

# SKILLS AND EXPERTISES

Proven skills in:

- Nuclear science: functioning of nuclear industries in France and abroad, management of radioactive waste and material, radiation protection, prevention and management of radiation risk,
- Environmental sciences: major environmental risks, vulnerability mapping, transfer of radionuclides in the environment, ecotoxicology and epidemiology, remediation and sanitation techniques (soil, surface water, groundwater, works),
- Risk management: assessment of hazards and vulnerability, prevention approaches, crisis and post-crisis management, communication, feedback,
- Specialist software (autoCAD, GIS MapInfo, ArcGIS, MODFLOW, etc.),
- Environmental and nuclear law: stakeholders and regulations,
- Management and monitoring of projects, quality initiatives, company certification. Teamwork, writing skills: notes, technical reports, dossiers, spoken presentations. Communication, English,
- Professionalization in an industrial setting or local government through a sandwich course (apprenticeship or professionalization contract).

# POSSIBLE CAREER PATHS

Target professions are:

- Security, safety, quality, radiation protection and communication (crises) project manager,
- Senior or junior consultant. Expert,
- Auditor and inspector of nuclear facilities,
- Specialization for occupational doctors and emergency physicians (SAMU), firefighting officers and physicians,



## KEY FIGURES

**100%**  
**of graduates**  
**were employed**  
**30 months after**  
**completing the**  
**master's degree.**

Source: OVIE (Unimes Student Life and Employment Observatory) surveys of graduates from 2014

**ECTS Credits:** 120  
**Duration:** 2 years  
**Level of studies:** BAC +5

### **ENTRY REQUIREMENTS**

- Introductory course/further education
- Apprenticeship in M2
- Validation of prior experience (VAE)

### **INTERNSHIP**

- 6 weeks in first year
- 5 months minimum in second year (apprenticeship)

### **CONTACT**

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# POSSIBLE CAREER PATHS

## **PROFESSIONAL PROSPECTS**

The Business Law course is designed to prepare students primarily for roles as:

- legal experts for banks or in-house,
- business lawyers,
- legal practitioners working in the public sector, especially in local governments or with associations. ENTRANCE EXAMS
- All entrance exams for public roles open to holders of a master's degree.
- Entrance exams for French law schools (CRFPA) and the French National School for the Judiciary (ENM).

Additionally, the dual research and professional objective of the degree enables graduates to go on to complete a PhD in law and offers access to research professions.

**ECTS Credits:** 120

**Duration:** 2 years

**Level of studies:** BAC +5

## **ENTRY REQUIREMENTS**

- Introductory course/further education
- Validation of prior experience (VAE)

## **INTERNSHIP**

- 1 month in first year
- 3 months in second year

## **CONTACT**

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