# **SOME END-OF-STUDIES INTERNSHIPS**

Micropollutants in the marine environment **IFREMER Nantes** assessment of studies and data available on pes-Laboratoires GILBERT SGS Multilab Safran Aircelle Assessment of capacity to repair damaged DNA **UMR INERIS SEBIO** ISO 14001 - ISO 50001 - OHSAS 18001 Mana-**SEDIBEX** Chevron Oronite EdF UP Le Havre Creation of a INB decree gateway document AREVA NC SIDEL blowing and Services Agence des Aires Marines Protégées Environmental performance Brasseries Kronenbourg

## **PROFESSIONALS**

The master R&E benefits from many professionals' involvement.



















## **FIELDS OF ACTIVITY**

- Operational ecotoxicology - Consulting engineering in environmental regulations and in the prevention of technological accidents
- Expertise and certification jobs in relation to safety standards at work
- Chemical risk, environmental quality and corporate social responsibility assessment
- Management, coordination, training, regulatory surveillance and scientific monitoring in the environment departments



# REGISTRATION

Open online in April 2017 on: https://ecandidature.univ-lehavre.fr





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Directed by Louison Pichard student in Professional License SSC















## **OBJECTIVES OF THE PROGRAM**

The master's degree in **R&E** is a **vocational course** providing **exper**tise in the prevention and management of chronic and emerging risks for health at work and the environment.

Students will acquire the necessary knowledge about toxicants and contaminants then will be trained to master the tools of chemical risk assessment, the set of regulations as regards liability law, the environment code, the enforcement of water laws, the European REACH regulation and environmental quality indicators.

They will be skilled to design, coordinate and carry out actions of prevention, reduction and certification in term of environmental impact. This program heavily relies on the regulatory development governing operation and waste disposal authorizations, certifications regarding safety, quality, environment and corporate social responsibility

## A MULTIDISCIPLINARY PROGRAM

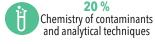
The master R&E relies on prerequisite bachelor knowledge to develop balanced and operational skills.



20% Biodiversity, environmental impacts



20% English, statistics, entrepreneurship





20% Toxicology, Ecotoxicology



20 % Environmental code.



## **THE PROGRAM**

## **MASTER 1**

#### **RISK PREVENTION EXPERT AND MANAGER QSE (70 H)**

- Occupational exposure -18001- MASE
- ISO 26000 : Corporate social

## **ECOLOGY: ENVIRONMEN-TAL MANAGEMENT** (90 H)

- Conservation Biology
- Indicators for biocenotic
- Conservation, marine protected areas, natura 2000

## **CONTAMINANTS AND** TOXICITY (110 H)

- Ecosphere chemistry
- Pollutants : sources,
- Mechanisms of exposure
- Mechanisms of toxic action

## **FIELD WORK AND ANALYSIS** (45 H)

- Field study ZA Seine - Company visits

## **NABLE DEVELOPMENT** ENGINEER (115 H) -Training for the quality

**TOOLS FOR THE SUSTAI-**

- control engineer ISO 9001
- Information literacy and
  - introduction to GIS

## **ENVIRONMENTAL CODE** AND LEGISLATION

(80 H)

- Environmental law and
- Environmental code
- ISO 14001 Environmental
- Energy management and Carbon footprint

# **MASTER 2**

## **NORMATIVE AND REGU-LATORY ASPECTS IN RISK** MANAGEMENT (75 H)

- Introduction to ERA Major Risks - SFVFSO
- REACH CLP
- Water Law WFD MSFD
- -Radiological risks

#### ANTHROPIZED ENVIRON-MENT MANAGEMENT (100 H)

- Spatial planning and sustainable development
- Hydrology, water table, ground water, water management and treatment

#### **BIOASSESSMENT AND CHE-MICALS ANALYSIS (110 H)**

- Biotests and biomarkers
- Physico-chemical analysis of environmental contaminants

### **TOOLS FOR THE SUSTAI-**NABLE DEVELOPMENT **ENGINEER (90 H)**

- - Company visits

## **ADMISSION PREREQUISITES**

The master R&E is available to students who have obtained a degree in life sciences, chemistry or environmental sciences. For Students possessing a vocational bachelor in areas related to the environment, biotechnology, toxicology or chemistry and wishing to pursue higher education in a Master, their admission shall be subject to approval by the education commission.

