



Engineers in Biology and Health Systems become quickly operational in different fields such as **health care structures, public health organisations, pharmaceutical, cosmetic, biotechnology or agri-food companies, etc.**

**Our students acquire scientific knowledge and skills in the field of bioproducts, innovation, quality, risks and project management. Our graduates are able to:**

- **Conceive, develop and optimize** innovating processes and products for the health industry
- **Implement appropriate tools and methods for the management** of health structures and projects
- **Set up and develop Quality methods** and optimize logistics
- **Identify and measure risks** related to health activities and environments



### POSITIONS

#### – PROJECT AND ORGANISATION MANAGEMENT

Manager and Assistant Manager of Medical and Health Care establishments – Clinical Research Associate – Biomedical research coordinator

#### – QUALITY AND LOGISTICS

Quality manager – Risk Management Quality Engineer – Qualification-validation Engineer – Logistics and Flow Manager – Auditor and Quality consultant

#### – RISK MANAGEMENT

HSE Manager – Risk Manager – Information Systems and/or Operation Manager – Manager in Sanitary Quality of Buildings – Coordinator of Sanitary and Energy Renovation of Buildings

#### – INNOVATION AND PLANNING

Research Engineer – Project Manager – Product Conception and Development Manager – Production Manager – Regulatory Affairs Manager

### FIELDS OF ACTIVITY

– **MEDICAL OR HEALTH CARE ESTABLISHMENTS:** Clinics, retirement homes, public hospitals: in Management, Quality and Risk Management Department and Clinical Trials

– **HEALTH PRODUCTS INDUSTRY:** Cosmetics, Pharmaceutical, agri-food, biotechnology, health and nutrition companies: in the Quality, R&D, Logistics, Regulatory Departments

– **CONSULTANCY, INSTITUTIONS, PROFESSIONAL BODIES:** Quality, Indoor Air Quality, Health and Nutrition Consultant Offices, Health or Audit Agencies, Clinical Trial Companies

# CURRICULA

## Projects:

- innovation
- real case studies
- cross disciplinary projects
- professional partnerships
- team spirit

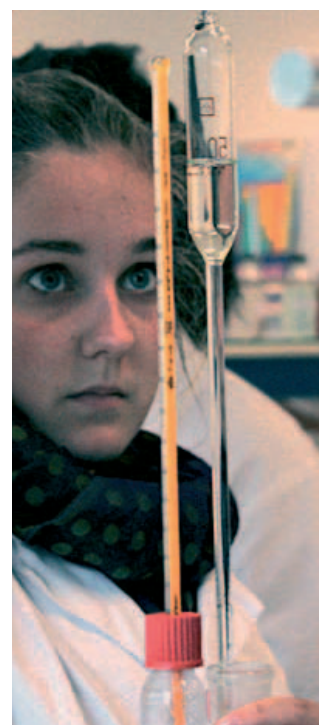
<b>3</b>	<b>3RD YEAR</b>
	<b>General courses</b> English – Spanish or German – Sports – Drama – Communication Tools and Methods
	<b>Fundamentals in Engineering</b> Quality Policy (approach, methods and tools) – Project Management – Information Management (Research and information watch, databases, intellectual property, investigation techniques, etc.) – Company Environment (Organisation and management)
	<b>Health and Biology Engineering</b> Hygiene and Hazards (agri-food microbiology, water-air-environment, control, cleaning and disinfection, infectious agents and risks) – Bioproduct Technologies (molecular and immunological detection, immunotechnology, DNA technology, bioinformatics, extraction, purification, conservation, etc.) – French Health Care Systems
	<b>Applied Study Project – Individual Professional Project</b> <b>Internship abroad (3 months)</b>

<b>4</b>	<b>4TH YEAR</b>
	<b>General courses</b> English – Spanish or German – Sports or Drama – Communication Simulation – Law and Regulations – Preparation for Professional Integration
	<b>Fundamentals in Engineering</b> Quality (HSE management, quality management, audits...) – Project Management – Company Environment (HR management, financial and economic management, flow management, strategy, marketing, etc.) – Conception, Innovation, R&D and Production Approaches and Tools (conception-innovation, automated systems, packaging, R&D, production...)
	<b>Health and Biology Engineering</b> Hygiene and Hazards (control, GLP/GMP, qualification, validation, traceability) – Bioproducts Technologies (transformation – formulation, etc.)
	<b>3 Specialisation Programs:</b> - <b>Innovative Engineering of Health Products (IPPS)</b> - <b>Risk Management in Health Sectors (GRSS)</b> - <b>Management of Complex Processes in the Health Sector (MPCS)</b> <b>Applied Study Project – Individual Professional Project</b> <b>Internship (4-5 months)</b>

<b>5</b>	<b>5TH YEAR</b>
	<b>General courses</b> English – Sports or Drama – Communication and crisis management – Law and Regulations – Preparation for Professional Integration
	<b>Fundamentals in Engineering</b> Company Environment (project funding and cost management, change management, etc.) – Conception, Innovation, R&D and Production Approaches and Tools – Reliability, Performance and Risk Management
	<b>Health and Biology Engineering - 3 specialisation programmes:</b> - <b>Innovative Engineering of Health Products (IPPS)</b> - <b>Risk Management in Health Sectors (GRSS)</b> - <b>Management of Complex Processes in the Health Sector (MPCS)</b> <b>Applied Study Project – Individual Professional Project</b> <b>Internship (5-6 months)</b>

40%

of trainers are professionals



## 3 SPECIALISATION PROGRAMMES

### ➔ Innovative Engineering of Health Products (IPPS)

**Sylvanie**, Nutrition Regulations ,  
**Yves Ponroy Laboratories**

**Cédric**, - Senior Project Manager,  
**Novo Nordisk**

**Mathilde**, R&D Engineer,  
**Labeyrie**

### ➔ Risk Management in Health Sectors (GRSS)

**Auriane**, Information Systems Security  
Manager,  
**GCS e-santé Pays de la Loire**

**Kevin**, HSE Manager,  
**Vilmorin SA**

**Laura**, Quality and Risk Management  
Engineer, **Angers University Hospital**

### ➔ Management of Complex Processes in the Health Sector (MPCS)

**Laura**, Quality Assurance Manager,  
**Make-up Forever**

**Magali**, Clinical Research, Arcagy-  
Gineco association,  
**Hotel-Dieu Hospital Paris.**

**Florence**, Nursing Home Manager,  
**Emera Group**