MASTER'S DEGREE IN BIOTECHNOLOGY - BIOTECHNOLOGY ENGINEERING AND AGRO-INDUSTRY MANAGEMENT TRACK

IDENTITY CARD

- Domain : Sciences, Technologies and Health
- Full time course
- Continuing Education
- 120 ECTS credits
- 4 semesters
- La Rochelle
- In partnership with

Lycée de l'alimentation ENILIA-ENSMIC

REGISTRATION

https://www.univ-larochelle.fr/formation/admission-inscription-et-scolarite/candidatures-et-inscriptions/candidater-universite-la-rochelle/

CONTACT

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OBJECTIVES

Presentation

> "This Master's degree provides the essential knowledge needed to understand and analyse a wide range of phenomena relating to living organisms.
> It covers the scientific and technical fundamentals in the fields of biotechnology, nutrition, health and food processing, but also offers a range of opportunities in other areas of training, such as innovation, management, distribution and equipment.
> In addition to scientific and technical courses to ensure a solid general culture, you will need to acquire a good command of English and another foreign language. You will also develop your ability to work in groups and your capacity for commitment and responsibility.
> The Biotechnology Engineering and Agro-Industry Management track focuses on quality control and management. Embrace biotechnology !"
>
> Stéphanie BORDENAVE-JUCHEREAU

Stéphanie Bordenave-Juchereau

ADMISSION

Your profile

You have a Bac+3, Bac+4 or equivalent (minimum 180 ECTS) : you must have knowledge on biochemistry, enzymology, microbiology, molecular biology and chemistry.

How to apply ?

In the 1st year of the Master's degree, the selection of candidates is made on the basis of their application documents.
How to apply to the 1st year of the Master's
How to apply to the 2nd year of the Master's

PROGRAMME

● Mandatory ■ Course option

General Track

Semester 1

Applying Genetic Engineering and Molecular Traceability ●

● Genetic Engineering

Language used for teaching	French
Teaching time	64h 30min (24h lectures - 7h 30min tutorials - 21h practical work - 12h work in accompaniment)
6 ECTS credits	
Course code	280-1-61

Beer Brewing and Fermentation ●

● Brewing Techniques and Fermentative Yeasts

Language used for teaching	French
Teaching time	63h (18h lectures - 12h tutorials - 21h practical work - 12h work in accompaniment)
6 ECTS credits	
Course code	280-1-51

Cross Curricular Units ●

● Biostatistics and Experimental Design

Language used for teaching	French
Teaching time	30h (12h lectures - 6h tutorials - 6h practical work - 6h work in accompaniment)
3 ECTS credits	
Course code	280-1-02

● Biotech Day

Language used for teaching	French
Teaching time	15h (3h tutorials - 12h practical work)
1 ECTS credit	
Course code	280-1-03

- Modern Foreign Language 1: English

Language used for teaching	French - English
Teaching time	24h (24h tutorials)
2 ECTS credits	
Course code	280-1-01

Extracting and Dimensioning with IA

- Biomolecule Extraction Processes

Language used for teaching	French
Teaching time	15h (6h lectures - 6h tutorials - 3h work in accompaniment)
1 ECTS credit	
Course code	280-1-11

- Sizing of Unit Operations in Process Engineering

Language used for teaching	French
Teaching time	48h (18h lectures - 9h tutorials - 12h practical work - 9h work in accompaniment)
5 ECTS credits	
Course code	280-1-41

Minor: Consumer-Driven Product Design

- Major Food Industries

Language used for teaching	French
Teaching time	18h (15h lectures - 3h work in accompaniment)
2 ECTS credits	
Course code	280-1-82

- Market Research

Language used for teaching	French
Teaching time	16h 30min (9h lectures - 4h 30min tutorials - 3h work in accompaniment)
2 ECTS credits	
Course code	280-1-81

- Marketing

Language used for teaching	French
Teaching time	16h 30min (9h lectures - 4h 30min tutorials - 3h work in accompaniment)
2 ECTS credits	
Course code	280-1-83

Semester 2

Bioreactor Operation and Biomolecule Production

- Bioreactors and Biomolecule Production

Language used for teaching	French
Teaching time	33h (15h lectures - 6h tutorials - 12h work in accompaniment)
3 ECTS credits	
Course code	280-2-12

- Enzyme Engineering

Language used for teaching	French
Teaching time	55h 30min (21h lectures - 6h tutorials - 21h practical work - 7h 30min work in accompaniment)
5 ECTS credits	
Course code	280-2-11

Complementary Module

- Rescue Project Jean Monnet: Resilience, Climate Change and European Union

Language used for teaching	French
Teaching time	40h (40h lectures)
7 ECTS credits	
Course code	000-0-01

Cross Curricular Units GBMAI

- GBMAI Work Placement (3 weeks)

Language used for teaching	French
4 ECTS credits	
Course code	280-2-03-STAG

- Modern Foreign Language 1: English

Language used for teaching	French - English
Teaching time	24h (24h tutorials)
2 ECTS credits	
Course code	280-2-01

Food Product Development

- Allegation, Rules and Novel Food: Innovation in EU

Language used for teaching	French - English
Teaching time	10h 30min (7h 30min lectures - 3h work in accompaniment)
1 ECTS credit	
Course code	280-2-51

- Food Biochemistry and Bioengineering

Language used for teaching	French - English
Teaching time	43h 30min (24h lectures - 4h 30min tutorials - 15h work in accompaniment)
5 ECTS credits	
Course code	280-2-52

Industrial Fermentation

- Industrial Microbiology

Language used for teaching	French
Teaching time	42h (21h lectures - 15h practical work - 6h work in accompaniment)
4 ECTS credits	
Course code	280-2-41

Minor: Food Manufacturing Management

- Agro-Food Project Management

Language used for teaching	French
Teaching time	18h (12h lectures - 3h tutorials - 3h work in accompaniment)
2 ECTS credits	
Course code	280-2-81

- Corporate Strategy and Action Plan

Language used for teaching	French
Teaching time	18h (12h lectures - 3h tutorials - 3h work in accompaniment)
2 ECTS credits	
Course code	280-2-82

- Production Management

Language used for teaching	French
Teaching time	18h (12h lectures - 3h tutorials - 3h work in accompaniment)
2 ECTS credits	
Course code	280-2-83

Semester 3

Agri-Food Business Management

- Distribution

Language used for teaching	French
Teaching time	21h (15h lectures - 3h tutorials - 3h work in accompaniment)
2 ECTS credits	
Course code	280-3-52

- Global Perspectives on Business Sectors

Language used for teaching	French - English
Teaching time	21h (15h lectures - 3h tutorials - 3h work in accompaniment)
2 ECTS credits	
Course code	280-3-51

- Industrial Performance Management

Language used for teaching	French
Teaching time	21h (15h lectures - 3h tutorials - 3h work in accompaniment)
2 ECTS credits	
Course code	280-3-53

Cross Curricular Units

- Biotech Day

Language used for teaching	French
Teaching time	19h 30min (4h 30min tutorials - 9h practical work - 6h work in accompaniment)
2 ECTS credits	
Course code	280-3-03

- Intellectual Property and Innovation / Financing Innovation

Language used for teaching	French
Teaching time	16h 30min (13h 30min lectures - 3h work in accompaniment)
2 ECTS credits	
Course code	280-3-02

- Modern Foreign Language 1: English

Language used for teaching	French - English
Teaching time	24h (24h tutorials)
2 ECTS credits	
Course code	280-3-01

Mastering Hygiene and Safety in the Food Industry

- Biological Food Hazards

Language used for teaching	French
Teaching time	21h (6h lectures - 12h tutorials - 3h work in accompaniment)
2 ECTS credits	
Course code	280-3-42

- Health and Safety Management

Language used for teaching	French
Teaching time	21h (18h lectures - 3h work in accompaniment)
2 ECTS credits	
Course code	280-3-41

- Personnel Safety and Environmental Monitoring in Food Industry

Language used for teaching	French
Teaching time	16h 30min (12h lectures - 4h 30min work in accompaniment)
2 ECTS credits	
Course code	280-3-43

Minor: Quality Management in the Food Industry

- HACCP and Quality Management

Language used for teaching	French
Teaching time	42h (30h lectures - 3h tutorials - 9h work in accompaniment)
5 ECTS credits	
Course code	280-3-81

- Nutritional Quality

Language used for teaching	French
Teaching time	15h (9h lectures - 3h tutorials - 3h work in accompaniment)
1 ECTS credit	
Course code	280-3-82

Nutrition and Food Risks

- Chemical Hazards in Food

Language used for teaching	French
Teaching time	19h 30min (15h lectures - 4h 30min work in accompaniment)
2 ECTS credits	
Course code	280-3-63

- Dietary Balance

Language used for teaching	French
Teaching time	19h 30min (12h lectures - 3h tutorials - 4h 30min work in accompaniment)
2 ECTS credits	
Course code	280-3-62

- Energy Expenditure and Nutritional Requirements

Language used for teaching	French
Teaching time	19h 30min (15h lectures - 4h 30min work in accompaniment)
2 ECTS credits	
Course code	280-3-61

Semester 4

Complementary Module

- Rescue Project Jean Monnet: Resilience, Climate Change and European Union

Language used for teaching	French
Teaching time	40h (40h lectures)
7 ECTS credits	
Course code	000-0-01

End-Of-Study Internship GBMAI

- GBMAI Work Placement (24 weeks)

Language used for teaching	French
30 ECTS credits	
Course code	280-4-02-STAG

AFTERWARDS

Information subject to change

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