



# MASTER OF SCIENCES, TECHNOLOGIES AND HEALTH - BIOTECHNOLOGIES JOINT MASTER PROGRAMME IN MARINE BIOTECHNOLOGY

## IDENTITY CARD

- > Domain : Sciences, Technologies and Health
- > Full time course
- > Accessible en [Validation des Acquis \(VAE\)](#)
- > [120 ECTS credits](#)
- > 4 semesters
- > Course taught in English

## REGISTRATION

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

## CONTACT

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## OBJECTIVES

## PROGRAMME

● Mandatory ■ Course option

### > Semester 1

- > **Blue Biotechnology Business and R&D Management I** ●

- Blue Biotechnology Business and R&D Management 1

Language used for teaching	English
Teaching time	60h (19h 30min lectures - 40h 30min tutorials)
6 ECTS credits	
Course code	281-1-11

- > **Culture Collection and Biobanks** ●

- Culture Collection and Biobanks

Language used for teaching	English
Teaching time	79h 30min (48h lectures - 31h 30min tutorials)
8 ECTS credits	
Course code	281-1-31

- > **Genomics, Proteomics and Metabolomics for Marine Biodiversity Prospecting** ●

- Genomics, Proteomics and Metabolomics for Marine Biodiversity Prospecting

Language used for teaching	English
Teaching time	60h (38h lectures - 10h tutorials - 12h practical work)
6 ECTS credits	
Course code	281-1-51

- > **Marine Biodiversity for Marine Natural Products** ●

- Marine Biodiversity for Marine Natural Products

Language used for teaching	English
Teaching time	40h (20h lectures - 5h tutorials - 15h practical work)
4 ECTS credits	
Course code	281-1-41

- > **Marine Microbiome and Metagenomics** ●

- Marine Microbiome and Metagenomics

Language used for teaching	English
Teaching time	59h (9h lectures - 50h practical work)
6 ECTS credits	
Course code	281-1-21

- > **Semester 2**

- > **Bioactivity Screening** ●

- Bioactivity Screening

Language used for teaching
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English
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Teaching time
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60h (35h lectures - 10h tutorials - 15h practical work)
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6 ECTS credits
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Course code
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281-2-21
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## > Blue Biotechnology Business and R&D Management II ●

- Blue Biotechnology Business and R&D Management 2

Language used for teaching
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English
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Teaching time
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60h (28h lectures - 32h tutorials)
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6 ECTS credits
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Course code
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281-2-11
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## > Chemical Libraries ●

- Chemical Libraries

Language used for teaching
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English
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Teaching time
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30h (20h lectures - 10h tutorials)
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6 ECTS credits
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Course code
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281-2-31
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## > Marine Natural Products: Classes, Biological activity and Biosynthesis ●

- Marine Natural Products: Classes, Biological Activity and Biosynthesis

Language used for teaching
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English
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Teaching time
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45h (45h lectures)
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6 ECTS credits
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Course code
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281-2-41
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## > Work Placement ●

- Work Placement (8 weeks)

Language used for teaching
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English
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6 ECTS credits
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Course code
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281-2-01-STAG
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## > Semester 3

### > Academic Research Integration ●

- Academic Research Integration

Language used for teaching
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English
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14 ECTS credits
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Course code
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281-3-01-STAG
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## > Aquaculture Biotechnology ■

### ● Advanced Breeding Programmes

Language used for teaching  
English

Teaching time  
40h (30h lectures - 10h tutorials)

4 ECTS credits

Course code  
281-3-44

### ● Aquaculture Systems and Seafood Processing

Language used for teaching  
English

Teaching time  
40h (30h lectures - 10h tutorials)

4 ECTS credits

Course code  
281-3-41

### ● Health and Welfare in Aquaculture

Language used for teaching  
English

Teaching time  
40h (30h lectures - 10h tutorials)

4 ECTS credits

Course code  
281-3-43

### ● Nutrigenomics and Fish

Language used for teaching  
English

Teaching time  
40h (30h lectures - 10h tutorials)

4 ECTS credits

Course code  
281-3-42

## > Blue Biomass ■

### ● Bioreactor Design and Management

Language used for teaching  
English

Teaching time  
40h (28h lectures - 12h tutorials)

4 ECTS credits

Course code  
281-3-21

### ● Microalgal Biotechnology

Language used for teaching  
English

Teaching time  
40h (28h lectures - 12h tutorials)

4 ECTS credits

Course code  
281-3-23

- Microbial Biomass and Metabolite Production

Language used for teaching
English

Teaching time
40h (28h lectures - 12h tutorials)

4 ECTS credits
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Course code
281-3-22

- Seaweed Production

Language used for teaching
English

Teaching time
40h (28h lectures - 12h tutorials)

4 ECTS credits
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Course code
281-3-24

## > Innovative Bioproducts for the Future ■

- Advanced Characterisation Methods for Marine Natural Products Identification

Language used for teaching
English

Teaching time
40h (30h lectures - 10h tutorials)

4 ECTS credits
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Course code
281-3-14

- Biological Profiling of Marine Natural Products

Language used for teaching
English

Teaching time
40h (30h lectures - 10h tutorials)

4 ECTS credits
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Course code
281-3-11

- Marine Natural Products for Health, Wellness and Food

Language used for teaching
English

Teaching time
50h (40h lectures - 10h tutorials)

4 ECTS credits
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Course code
281-3-13

- Optimisation of Marine Natural Products

Language used for teaching
English

Teaching time
40h (31h lectures - 9h practical work)

4 ECTS credits
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Course code
281-3-12

## > Marine Biorefinery ■

- Developing Biorefinery Processes

Language used for teaching
English

Teaching time
40h (28h lectures - 12h tutorials)

4 ECTS credits
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Course code
281-3-31

- Functionalisation of Marine Derived Biomaterials

Language used for teaching
English

Teaching time
40h (28h lectures - 12h tutorials)

4 ECTS credits
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Course code
281-3-33

- Marine Biomass Functional Ingredients Extraction

Language used for teaching
English

Teaching time
40h (28h lectures - 12h tutorials)

4 ECTS credits
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Course code
281-3-32

- Marine Whole-Cell Factories

Language used for teaching
English

Teaching time
40h (28h lectures - 12h tutorials)

4 ECTS credits
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Course code
281-3-34

## > Semester 4

### > Work-Based Learning ●

- Work Placement (24 weeks)

Language used for teaching
English

30 ECTS credits
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Course code
281-4-01-STAG

## AFTERWARDS

Information subject to change

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