



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/>

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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

> Culture Collection and Biobanks ●

- Culture Collection and Biobanks

Genomics, Proteomics and Metabolomics for Marine Biodiversity Prospecting •

- Genomics, Proteomics and Metabolomics for Marine Biodiversity Prospecting

> Marine Biodiversity for Marine Natural Products •

- Marine Biodiversity for Marine Natural Products

> Marine Microbiome and Metagenomics •

- Marine Microbiome and Metagenomics

> Semester 2**> Bioactivity Screening •**

- Bioactivity Screening

> Blue Biotechnology Business and R&D Management II •

- Blue Biotechnology Business and R&D Management 2

> Chemical Libraries •

- Chemical Libraries

> Marine Natural Products: Classes, Biological activity and Biosynthesis •

- Marine Natural Products: Classes, Biological Activity and Biosynthesis

> Work Placement •

- Work Placement (8 weeks)

> Semester 3**> Academic Research Integration •**

- Academic Research Integration

> Aquaculture Biotechnology ■

- Advanced Breeding Programmes
- Aquaculture Systems and Seafood Processing
- Health and Welfare in Aquaculture
- Nutrigenomics and Fish

> Blue Biomass ■

- Bioreactor Design and Management
- Microalgal Biotechnology
- Microbial Biomass and Metabolite Production
- Seaweed Production

> Innovative Bioproducts for the Future ■

- Advanced Characterisation Methods for Marine Natural Products Identification
- Biological Profiling of Marine Natural Products
- Marine Natural Products for Health, Wellness and Food
- Optimisation of Marine Natural Products

> Marine Biorefinery ■

- Developing Biorefinery Processes
- Functionalisation of Marine Derived Biomaterials
- Marine Biomass Functional Ingredients Extraction
- Marine Whole-Cell Factories

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> Semester 4

> Work-Based Learning •

- Work Placement (24 weeks)

AFTERWARDS

Information subject to change

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