

## COORDINATORS AND DIRECTORS

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## SCHOLARSHIPS

Scholarships awarded by the Graduate Programme « Science for a Changing Planet » are available to M1 and M2 students to support their studies, to facilitate their settling in Lille and to make an internship in a foreign country. Eligibility, criteria and application can be found here : <https://international.univ-lille.fr/en/graduate-programmes/grant-application/>

## INTERNATIONAL RELATIONSHIP

- The University of Lille has a policy of supporting international access to its courses. That's why it has introduced special procedures to make international students feel welcome and form collaborations.

<https://www.univ-lille.fr/home/international-student/>

- Practical information for your stay at the University of Lille

## APPLICATIONS

Master EvoBio's capacity : 15 places in Master 1.

Recruitment calendar: opening from March 22nd 2023 to April 18th 2023. Admissions will be released from June 23rd to July 21st 2023.

Admission to the first year of the master's program is subject to the examination of candidates application. Candidates shall hold:

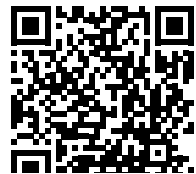
- a BSc (Licence) in Population Biology or equivalent,
- relevant theoretical knowledge and practical experiences (previous academic program :
  - Evolutionary biology
  - Population genetics
  - Population ecologyacquired skills , academic level, internship ...)
- a motivation to study in an multicultural environment (international mobility, mix with students from different backgrounds, carry out international internship...).
- good english skills
  - minimum level CECRL B2
  - list of accepted certifications : TOEFL, CLES, Duolingo, IELTS and Cambridge.

Resident of one of the 67 countries affected by the «Etudes en France» procedure must apply via Campus France ([campusfrance.org/en](https://campusfrance.org/en)) to candidate to the master and Student Visa.

Students with no Campus France agency and European citizens have to go through the national platform «Mon Master»

<https://monmaster.gouv.fr/>

Visit the EvoBio website here !



<https://eep.univ-lille.fr/enseignements-3/evobio/>



Science for a  
changing planet

Master

MASTER 2

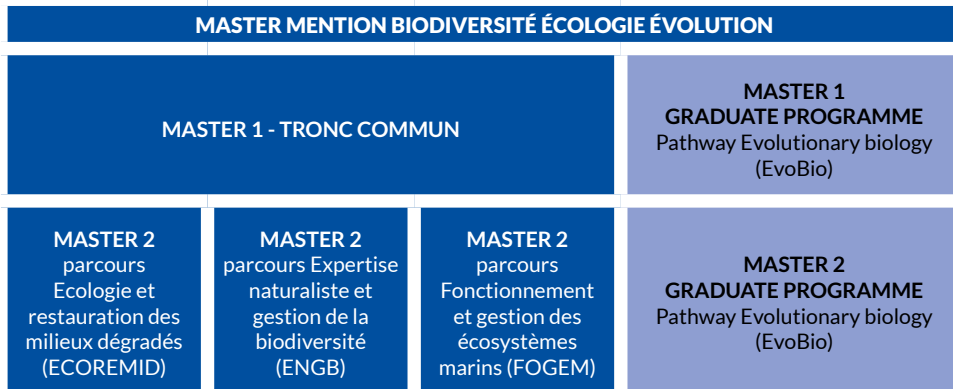
*Mention*

Biodiversity Ecology Evolution

*Parcours*

**Evolutionary Biology  
(EvoBio)**





## OBJECTIVES

The Master Evolutionary Biology (EvoBio) is a new master of the Graduate Programmes of Lille University. It is a two years (4 semester, 30 ECTS each) International Master's program taught in English and including mobilities in a foreign universities.

The objective of the course is to provide students with high-level knowledge and skills in Evolutionary Biology in order to continue towards Doctoral studies.

## THIS MASTER DEGREE PROGRAMME IS PART OF THE GRADUATE PROGRAMME "SCIENCE FOR A CHANGING PLANET"

GRADUATE PROGRAMMES of the University of Lille offer to master students and PhD's a training environment through research-driven approach in an international, stimulating, competitive and innovative context as well as professional networking for successful career planning.

The Graduate Programme 'Science for a Changing Planet' provides them with the core competencies to address societal challenges of our time including (1) understanding and monitoring planet changes; (2) seeking alternative solutions to the exploitation of fossil resources, and (3) evaluating the impact of global changes on people, the earth and societies.

**Key figures** : 9 Master Degree Programmes (150 students), 1 Graduate School (70 PhDs) with more than 60% international students

**Scholarship** : The Graduate Programmes offer fellowships (3500 euros) and relocation (3500 euros) grants to attract bright students in their master tracks, as well as outgoing mobility grants (max 3000 euros) to its registered students.

- Fellowship and relocation grant : 1st call (deadline March 15th, results April 15th), 2nd call (deadline May 15th, results July 1st)

**More information**: <https://international.univ-lille.fr/en/graduate-programmes/science-for-a-changing-planet/>

## TARGETED SKILLS

- to be expert in Evolutionary Biology and notably in population genomics, evolutionary genomics, statistics and modelling;
- to have a good understanding of ecological concepts, bioinformatic tools and NGS data management;
- to be well prepared to start a PhD thesis;
- to develop high skills in project management, intercultural communication, and be fluent in English.



## TRAINING'S ORGANISATION

- The master EvoBio is a 2 years course in English. The course is organised around 4 blocks of knowledge and skills (BKS):

**BKS1- Knowledge on biodiversity at different scales and the functioning of natural and anthropized ecosystems**

**BKS2- Selection, development and application of tools dedicated to biological and ecological objects**

**BKS3- Design and management of projects in ecology and evolution**

**BKS4- Building a professional project**

The Graduate Programme promotes international mobility: for all masters belonging to the Graduate Programme, students have to spend part of the master period abroad for a semester or during one of the research internships. To ensure that this mobility takes place in the best conditions, we are developing collaborations with other universities and grants are potentially available to help with the mobility costs.

### Master 1 - Semester 1 (30 ECTS):

#### BKS1

- Conservation genetics
- Evolutionary biology and population dynamics
- Introduction to Omics data

#### BKS2

- Statistics initiation with R
- Bioinformatics tools

#### BKS3

- English/FLE
- Scientific communication

#### BKS4 - Student project

### Master 1 - Semester 2 (30 ECTS):

#### BKS1

- From genotype to phenotype
- Theoretical modelling
- Ecology : from theory to experiments

#### BKS2

- Multivariate statistics
- Experimental approaches in ecology
- Analysis of empirical population genetics data

#### BKS4

- Research in «global changes and biodiversity»
- Research internship

### Master 2 - Semester 1 (30 ECTS)

#### BKS1

- Population genomics
- Evolutionary genomics
- Macroevolution

#### BKS2

- GLM Statistics
- Introduction to Bioinformatics

#### BKS3 - Project management

#### BKS4

- Bibliographic project
- Research in «evolution of mating systems»

### Master 2 - Semester 2 (30 ECTS)

#### BKS3 - Research Internship (5-6 months)

The teaching units can be shared with the other pathways of the mention Biodiversity Ecology and Evolution (BEE) and of the Graduate Programme.

## JOB OPPORTUNITIES & FURTHER STUDIES

At the end of this training, students can apply for engineering-level positions, both in the public and private sectors, or for the preparation of a PhD thesis in France or abroad. The training, entirely taught in English, consists of courses, practical work and internships. Internships will be followed by a dissertation and a defence.

The Master EvoBio is organized by the Evolution, Ecology and Paleontology Lab (EEP).

The Master Evolutionary Biology (EvoBio) trains students to become: Researcher (after defending a thesis), Environmental engineer, Scientific mediator in sectors such as Public research establishments, environmental offices, natural museums, natural reserves or Bio-technological industries.

## STRENGTH OF THE TRAINING

- High level of supervision and training
- A master degree in a stimulating scientific Environment within the Graduate Program 'Science for a changing planet'