

# Paleontology, paleoclimatology, paleoenvironment

Master Biodiversité, écologie et évolution



**Durée**  
2 ans



**Composante**  
Faculté des  
sciences et  
technologies



**Langue(s)  
d'enseignement**  
Anglais

## Présentation

The **Paleontology - Paleoclimatology - Paleoenvironment (PALEO)** programme aims to train specialists capable of answering fundamental questions (paleobiology, macroevolution, climate change and its impact on biodiversity, ...) but also applied questions, particularly in the sedimentary resources industry (stratigraphic correlations, paleoenvironmental reconstructions), as well as in geoconservation (development and economic and societal impact of geotourism, conservation of geological heritage in situ and ex situ, cultural and scientific value). To do this, they must master: the various methods of analysis, processing and intervention in the field of sedimentary geology (sequential stratigraphy, facies analysis, characterisation of geological materials, etc.), fundamental palaeontological and palaeoenvironmental analysis tools (quantitative palaeontology applied to macroevolution and palaeoecology, scientific communication, geobiological interactions, paleoclimatology), applied paleontology tools (micropaleontological and biostratigraphic analyses and their environmental and industrial applications), practical geoconservation tools (case studies of geological collection and site management, regulatory protection and geological heritage status in France and around the world, scientific dissemination).

## Savoir-faire et compétences

*Knowledge and skills blocks*

The master's programme is organised into different knowledge and skills blocks (BCC):

BCC - Acquire the general knowledge necessary to understand past and present ecosystems, both degraded and natural  
BCC – Conduct an environmental assessment of the current and past situation and/or a research protocol

BCC - Implement a current or past environmental study and/or scientific project, either individually or collectively, and build your professional project by communicating with tools adapted to different audiences

## Les + de la formation

Master's in Biodiversity, Ecology, Evolution: Key strengths of the programme

- A progressive programme: Enough time to choose your path and refine your career plans.
- A balance between theory and practice: Academic teaching combined with practical applications in the field.
- Solid scientific support: Renowned laboratories to support the programme.
- A diverse and experienced teaching team: Lecturers and guest speakers from academic and professional backgrounds.
- Professional immersion: 8 months of work experience over the 2 years (2 months in M1 and 6 months in M2).
- Up-to-date tools and methods: Taught and used by working professionals.

This approach allows students to acquire both solid knowledge and practical experience, which is essential for their professional integration or further research.

## Organisation

### Organisation

In the first year, many common teachings with the courses in English EvoBio and MarEcoBio

The second year is dedicated to specialisation in the field paleontology and paleoenvironnement, with an academic semester 3 and a semester 4 dedicated to a professional internship.

#### *International mobility*

Student mobility is encouraged at PALEO: Student mobility is encouraged through our various international partnerships. In particular, we have double degree agreements with the universities of Uppsala in Sweden and Pisa in Italy. The programme is part of the Erasmus Mundus joint Master's degree in 'Applied Palaeontology, Palaeobiology, and Geoheritage', the only Master's programme of its kind dedicated to palaeontology, which includes the universities of Lille (coordinator), Athens (Greece), Braga (Portugal) and Uppsala (Sweden). As a result, all teaching units are delivered in English

### Stages

**Stage :** Obligatoire

2 stages obligatoires : 1 au S2 et 1 au S4.

## Admission

### Conditions d'admission

For European students and non-EEF students: Application: Submit your application by following this link: <https://monmaster.gouv.fr>

For EEF students: Etudes en France : <https://www.campusfrance.org/fr/candidature-procedure-etudes-en-france>

## Et après

### Poursuite d'études

The PALEO programme allows students to pursue doctoral studies in the following fields:

- Paleontology
- Paleoconservation, geoconservation
- Biostratigraphy

### Insertion professionnelle

The job market for this programme is international. The PALEO programme trains students for careers as: environmental engineers, biostratigraphers, micropalaeontologists, collection curators, geopark managers, science communicators, lecturers or researchers (after completing a PhD), public research institutions, museums and natural history museums, nature reserves, geoparks, science centres, etc.

Upon completion of this programme, students can apply for engineering positions in both the public and private sectors, or prepare for a PhD in France or abroad.

Pour en savoir plus sur l'insertion professionnelle des diplômés de l'Université de Lille, consultez les répertoires d'emplois publiés par l'[ODiF \(Observatoire de la Direction de la Formation\)](#)

Les fiches emploi/métier du [Répertoire Opérationnel des Métiers et des Emplois \(ROME\)](#) permettent de mieux connaître les métiers et les compétences qui y sont associées.

## Infos pratiques

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### Autres contacts

**Contact administratif :**

 [master-bee@univ-lille.fr](mailto:master-bee@univ-lille.fr)

**Contact pédagogique :**

 [FST-master-bee-paleo@univ-lille.fr](mailto:FST-master-bee-paleo@univ-lille.fr)

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### Lieu(x)

 Villeneuve d'Ascq

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### Campus

 Campus Cité scientifique

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### En savoir plus

Faculté des Sciences et Technologies

 <https://sciences-technologies.univ-lille.fr/>