# Want to study abroad in Europe? Come to Nancy!



- ✓ An urban area of 400 000 inhabitants and 50 000 students (Université de Lorraine and 10 Engineering schools)
- ✓ Easy access from Paris by TGV (high speed train), and close to Germany, Belgium, and Luxembourg
- ✓ Nancy has a great architectural history (part of the UNESCO World Heritage) including the *Art Nouveau* period, and is surrounded by forests and hills ideal for recreational activities
- ✓ Many cultural and entertainment events all year round (e.g. *NJP Jazz festival*, le *Livre sur la Place* book fair)

More info at: www.nancy-tourisme.fr



## Support research departments

- ◆Silva, UL-INRAE-AgroParisTech
- ◆ Bureau d'Economie Théorique et Appliquée, INRAE-CNRS-AgroParisTech-UL-UniStra
- ◆Biogéochimie des Ecosystèmes Forestiers, INRAE
- ◆Laboratoire d'Inventaire Forestier, I.G.N.

## **European/International partnerships**

- \* Université de Lorraine, AgroParisTech and INRAE are members of the NFZ forest network (Nancy-Freiburg-Zürich) for higher education and research (<a href="www.nfz-forestnet.eu">www.nfz-forestnet.eu</a>)
- \* AgroParisTech belongs to the consortium Erasmus Mundus MSc European Forestry and offers the major Forests and their Environment as the educational support for the 2<sup>nd</sup> year (<a href="http://www.uef.fi/en/web/mdp-europeanforestry">http://www.uef.fi/en/web/mdp-europeanforestry</a>)
- **★** INRAE and AgroParisTech are members of the European Forest Institute (EFI)
- \* International network opportunities further arise from international research collaborations at Université de Lorraine, AgroParisTech and INRAE



Conception: BONTEMPS Jean-Daniel, FORTIN Mathieu, EPRON Daniel - Réalisation / Graphisme : KWIAT-KOWSKI Marion - Crédits photo : @AgroParisTech / @ INRAE/ @ UL/ https://commons.wikimedia.org/ https://www.flickr.com/ https://pixabay.com/https://www.pexels.com



## Forests and their Environment Concept and objectives

This MSc major (M2) offers a broad perspective and indepth training on the functioning and dynamics of European forests, providing a basis to address challenges arising from environmental constraints and forest management.

The objective is to prepare for 1) professional careers in R&D or expert positions in the environmental diagnosis and management of forest ecosystems in private/public national/international institutions, 2) scientific careers in research institutions conducting programs in forest ecology and management.

- ✓ An introductory session gives an overview of European forests and the major issues related to their management.
- ✓ The core of the major provides fundamental and applied knowledge on the functioning and dynamics of forest ecosystems and communities, including tree physiology, biogeochemistry and ecology.
- ✓ A "tools & methods" session provides knowledge and training on the main quantitative tools used in ecosystem diagnosis and experiment analysis, including GIS, statistics, and modelling.

#### Institutional framework and connection to research

The MSc program provides a research-driven approach to the understanding and management of forest ecosystems. The teaching staff includes more than 30 professors and senior scientists from 9 research labs at Université de Lorraine (UL), AgroParisTech and Institut National de Recherche Agronomique (INRAE, <a href="https://www.nancy.INRAE.fr">www.nancy.INRAE.fr</a>).

In addition to the balance between fundamental and practical knowledge, practitioners from organizations involved in forest management and R&D will also provide a connection to forest management issues, and ensure both a professional and academic education.



#### Master curriculum

The first semester (S9) includes 9 training units for a total of 30 ECTS credits. Training units are as follows:

#### Fundamental and applied knowledge

- European forests, sustainable forest management, certification
- 2 Understanding tree structure and functions
- **3** Biogeochemical cycles in forest ecosystems
- **4** Dynamics of forest plant and tree communities
- **5** Forests and forestry in a context of global change

#### Tools and methodology

- Project in forest management
- 2 Advanced statistics or GIS for forest science and forest ecology
- **3** Models in forest management
- Forestry wood-chain tour

The second semester (S10) consists of an internship of a duration of >20 weeks evaluated through a written dissertation and an oral defence for 30 ECTS credits. The internship takes place either in a research laboratory or in institutions, companies or associations of relevant fields of application. Internships can be proposed by students.



### **Application and Admission**

The Forests and their Environment major seeks to recruit 15-20 students on selective bases.

Depending on their education, applicants should justify a 1<sup>st</sup>-year MSc level (M1) or a master's degree or equivalent (M2), as acknowledged in the EHEA (European Higher Education Area), and educational background in the fields of forestry, plant science, ecology, ecophysiology, or environmental science.

A B2 level in English is required. See the self-assessment grid of Common European Framework of Reference (CEFR) at: <a href="https://europass.cedefop.europa.eu/en/home">https://europass.cedefop.europa.eu/en/home</a>. Equivalent qualifications are: IELTS >5, TOIEC >700, TOEFL IBT > 90, or Cambridge FCE.

Applications should include 1) the *Europass* documents (<a href="https://europass.cedefop.europa.eu/en/home">https://europass.cedefop.europa.eu/en/home</a>), 2) marks obtained in the previous educational year, 3) a letter of application, and 4) one letter of recommendation from a senior professor/scientist of earlier educational courses/internships.

## **Contacts & Informations**

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