LORRAINE INP Enstib

Grande école des ingénieurs bois



École Nationale Supérieure des Technologies et Industries du Bois

National School of Wood Science and Technology

MINISTÈRE DE L'ENSEIGNEMENT SUPÉRIEUR, DE LA RECHERCHE ET DE L'INNOVATION

UNIVERSITÉ DE LORRAINE

OUR CAMPUS

The National School of Wood Technologies and Industries is one of the eleven engineering schools in the College Lorraine INP, within the Université de Lorraine. Located in Epinal, at the heart of the Vosges, it is the only national public school entirely dedicated to wood. The school delivers a degree accredited by the National Commission of Engineering Titles (CTI: Commission des Titres d'Ingénieur), but also a specialization engineering degree, as well as Bachelor's, Master's and Doctoral degrees.



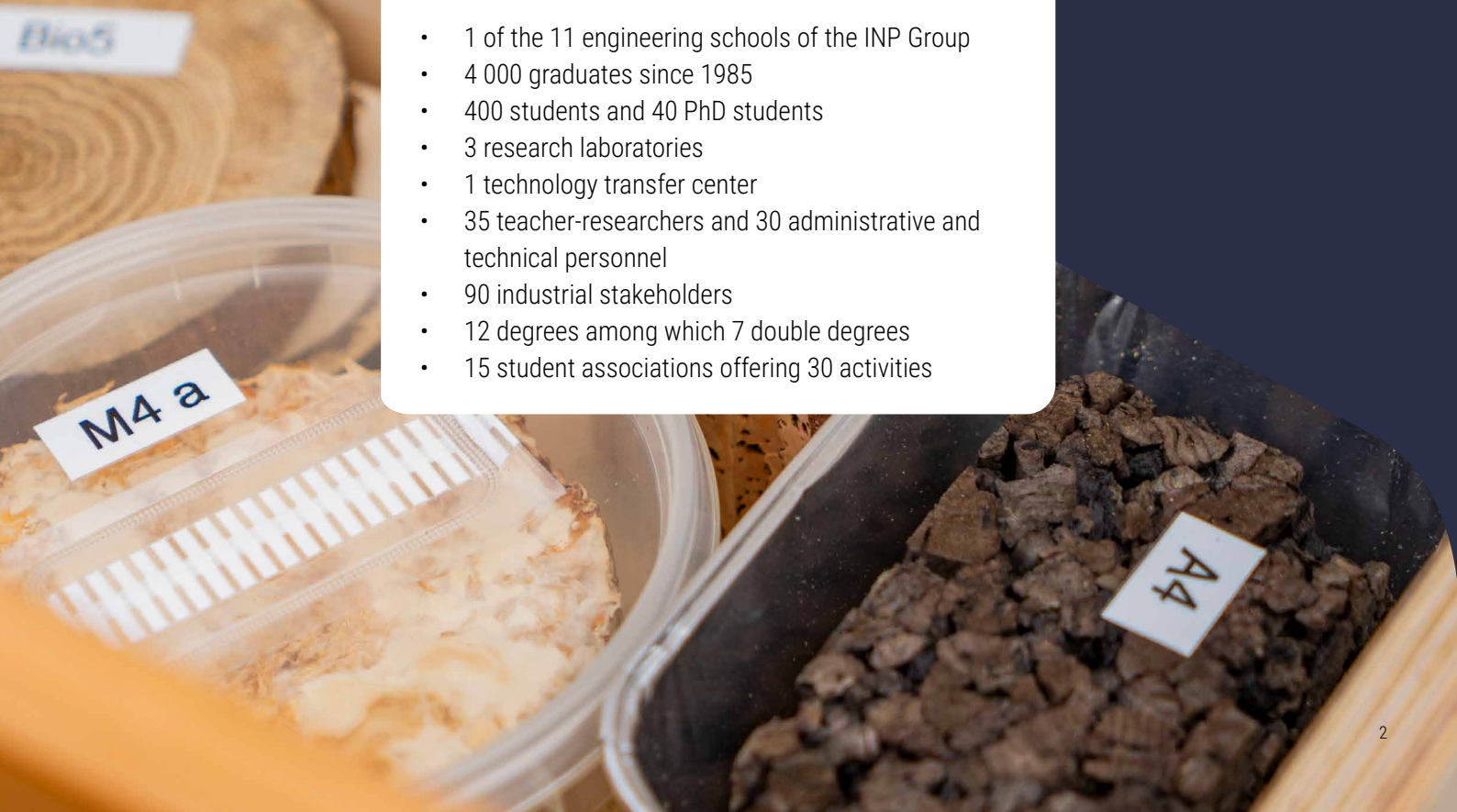
ENSTIB is a young, committed and forward-looking school. At the core of its project: **making wood and bio-based materials key drivers of technological innovation and environmental transition**. These natural and renewable resources emerge as **cornerstones of a sustainable circular economy**.

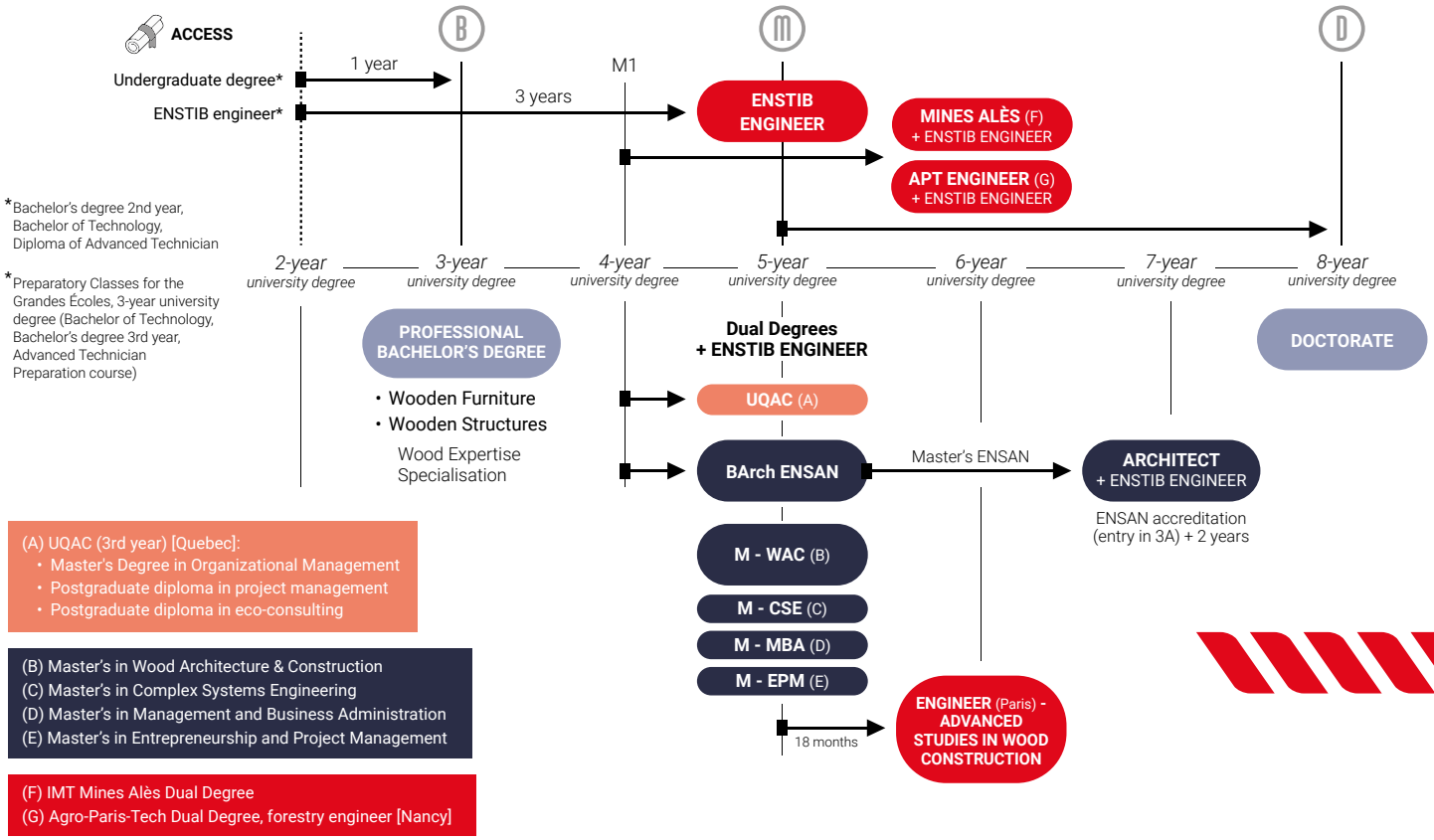
Wood construction, logistics, bioeconomy, biorefinery, robotics, industry 4.0: topics covered at the school directly address the challenges faced by companies.
Through active learning methods and frames of reference in tune with industry expectations, ENSTIB trains **independent engineers, capable of learning, innovating and taking action** in a world in transition.

The employability of the school's graduates, whatever their training, is well established, with a 100% employment rate three months after graduation.

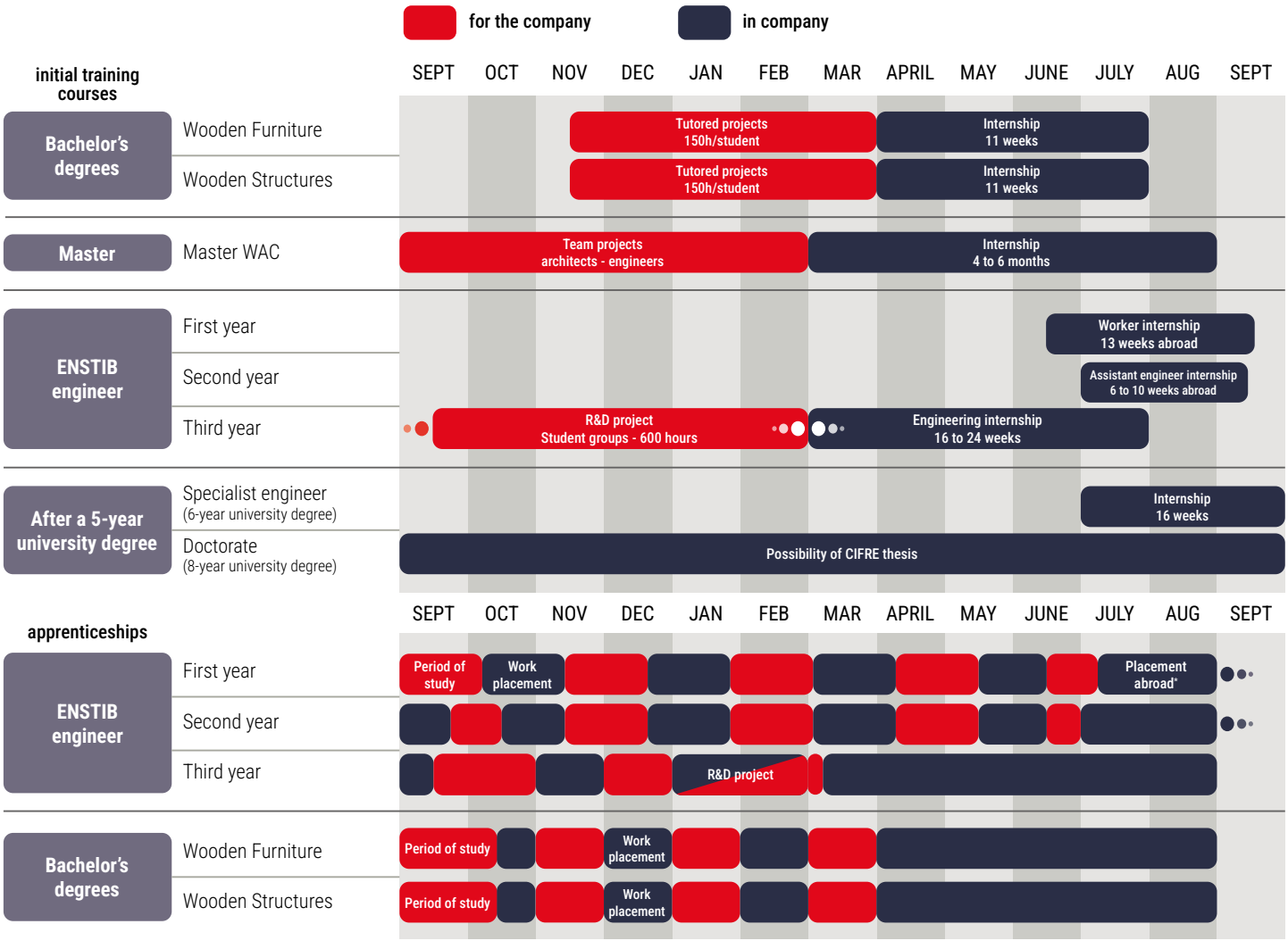
In a university with 60,000 students

- 1 of the 11 engineering schools of the INP Group
- 4 000 graduates since 1985
- 400 students and 40 PhD students
- 3 research laboratories
- 1 technology transfer center
- 35 teacher-researchers and 30 administrative and technical personnel
- 90 industrial stakeholders
- 12 degrees among which 7 double degrees
- 15 student associations offering 30 activities





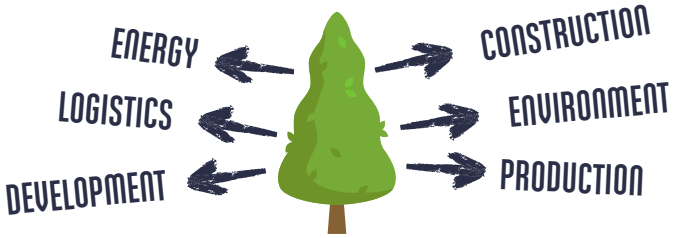
STUDENTS AND ENGINEERING STUDENTS WORKING **ALL YEAR ROUND**



* 7 weeks minimum

ENSTIB, A VITAL RESOURCE FOR THE FORESTRY AND WOOD INDUSTRY

ENSTIB, the National School of Wood Technologies and Industries, is the only French public "Grande Ecole" entirely dedicated to the wood material. As a general engineering school, it trains **professionals capable of managing complex projects across all sectors of the forest-wood industry**, from upstream forestry to downstream manufacturing.



At the heart of environmental issues, the wood sector makes up **a model of sustainable development and circular economy**. Backed by nearly 400 000 jobs in France, the wood sector creates ecological, economical and social value at every stage of the chain.

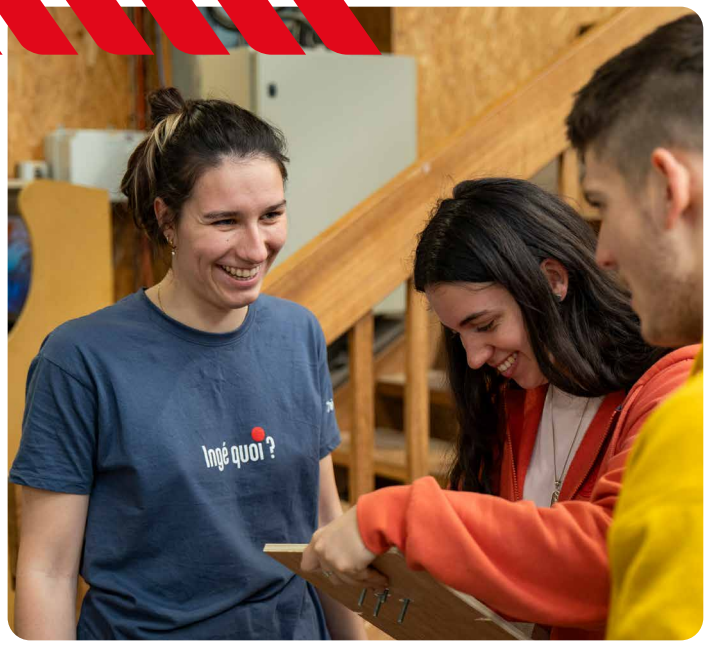
As a strategic, renewable and recyclable material, **wood plays a key role in the fight against climate change**. Energy-efficient and naturally thermally efficient, it is becoming increasingly prevalent in high-performance construction, contemporary architecture and interior design. It also plays a major role in renewable energy and opens up new possibilities for bio-based materials chemistry, through the reutilization of resources and coproducts.



At ENSTIB, students are trained to analyze overall impacts – life cycle, carbon footprint, forest certification – so they can act responsibly.

Regardless of their training, they are committed to **the innovative, ethical and pragmatic use of wood and bio-based materials to support ecological and industrial transitions.**

RSE



LEARN ABOUT CAREERS IN THE WOOD INDUSTRY AND HEAR FROM OUR ALUMNI

STRATEGIC EMPLOYMENT OPPORTUNITIES
IN A SUSTAINABLE HIGHLY CIRCULAR ECONOMY MODEL

1 **ENSTIB Engineer**

2 **Dual degree ENSTIB engineer & APT forestry engineer**

3
- **Master WAC** (Wood Architecture & Construction)
- **Dual degree in engineering and architecture**

4 **Master's in Forestry**

5 **Master's in CSE***
*Complex Systems Engineering

6 **Master's in MBA***
*Management and Business Administration

7 **Master's in EPM***
*Entrepreneurship and Project Management

8 **Master's in BioWARE***
*BIOrefinery engineering of Wood and Agro-REssources

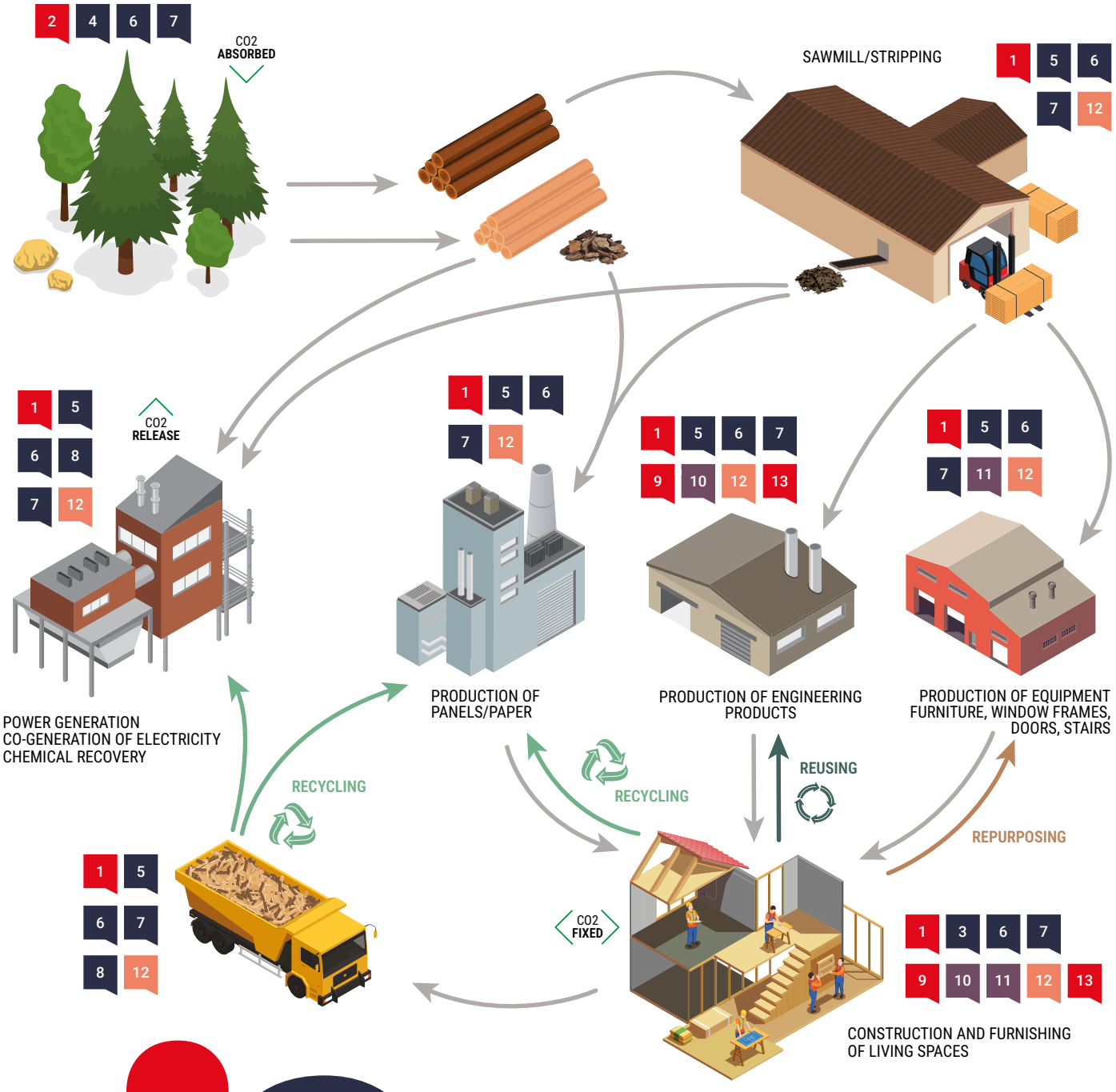
9 **Engineer - advanced studies in wood construction**

10 **Professional degree in Wood Structures**

11 **Professional degree in Wood Furniture**

12 **Dual degree – UQAC**
- Postgraduate diploma in project management
- Postgraduate diploma in eco-consulting

13 **Mines Alès dual degree**





SUSTAINABLE CONSTRUCTION

FUTURE-ORIENTED TRAINING THAT MEETS ENVIRONMENTAL CHALLENGES

The "Sustainable Construction" program offered at ENSTIB provides training in sustainable architecture and in the technical and environmental challenges of modern construction. Designing buildings that are structurally sound and energy-efficient is essential in a context where environmental impact is under close scrutiny.

At ENSTIB, students learn to **model, size and optimize timber structures, by incorporating the latest calculation codes, thermal and environmental regulations, as well as energy requirements**.

Wood offers innovative technical solutions for new construction and renovation, addressing the challenges of energy-efficiency and reducing the carbon footprint.





Our students are trained to use this material to design sustainable and energy-efficient buildings. Thanks to technological advances and automation devices, they are immersed in a **cutting-edge environment which is shaping the future of the industry**. This unique program combines mastery of traditional techniques with state-of-the-art technologies, preparing them to become key players in green building.

Given the growing demand for sustainable buildings, this program offers a **wide range of opportunities in engineering, construction supervision and project management**. Joining ENSTIB means becoming part of a community committed to building a future that respects the planet.

OVER 50% OF OUR GRADUATES WORK IN THE WOOD CONSTRUCTION INDUSTRY

Over the last ten years, the wood construction industry has experienced a remarkable growth both in France and internationally, driven by a growing awareness of environmental issues. This development has been accompanied by a transformation of the trades and a strong demand for specialised skills.

In 2024, approximately **28,315 people were employed** in this sector. In France, around 13,000 were directly involved in wood construction activities. The sector is made up of around **1,888 companies** (source: Fibois France, France Bois Forêt).

Building extensions made of wood are an increasingly important part of the sustainable construction market both in France and around the world.

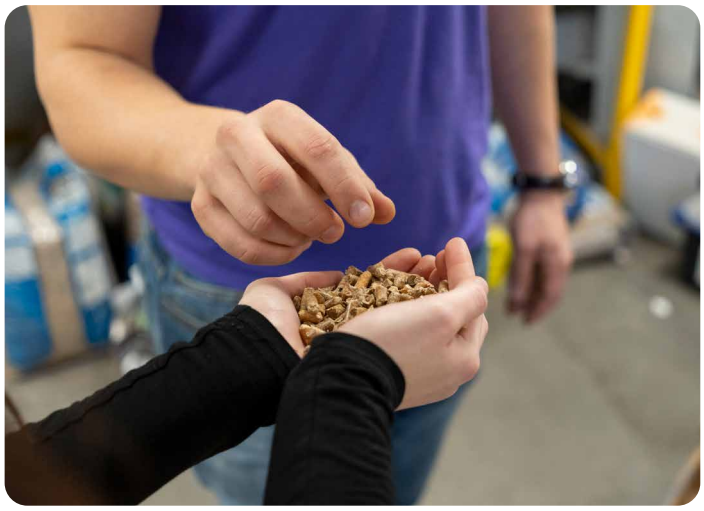
Some examples of jobs in the sustainable construction sector

- *Wood construction engineer*
- *Sustainable construction project manager*
- *Architect specialising in sustainable construction*
- *Site manager specialising in wood construction*
- *Sustainable construction sales technician*
- *Building thermal engineer*
- *Wood structure production manager*
- *Wood construction technical design manager*
- *Project supervisor*



WOOD-ENERGY-ENVIRONMENT

A RENEWABLE RESOURCE AT THE HEART OF THE ENERGY TRANSITION



Wood in all its forms is now the **leading source of renewable energy in France**, Europe and the rest of the world. In the face of the major challenges of energy transition and reducing energy consumption, wood energy is emerging as a sustainable and efficient energy alternative.

Thanks to various processing technologies, wood is proving to be both an **excellent insulation material and a renewable energy source**. Moreover, it is available in different forms (logs, pellets, wood chips, etc.) and can therefore be used as rationally and efficiently as fossil fuels. This makes it an essential solution for areas with an abundance of sustainably managed forests.

At ENSTIB, **programs are designed to support these dynamics**, by teaching students the many applications of wood in the production of sustainable energy. Courses cover topics such as combustion, gasification, biofuels or the production of green hydrogen and also focus on reducing the environmental impact: waste management, pollution control and emissions reduction.



Biomass, and wood in particular, has become the leading source of renewable energy in France, in Europe and all over the world.



Some examples of jobs in the wood-energy-environment sector

- *Biomass and wood energy engineer*
- *Renewable energy project manager*
- *Forestry and sustainable management manager*
- *Maintenance engineer for wood energy installations*
- *Wood-fired heating and heating network manager*
- *Wood gasification and combustion systems engineer*
- *Energy transition and wood energy consultant*
- *Biomass waste recycling manager*



BIO-BASED MATERIALS CHEMISTRY

A PROMISING FUTURE FOR SUSTAINABLE MATERIALS

Today, the development of high-performance materials derived from forest biomass, as well as the reuse and recycling of wood, are an integral part of ENSTIB's activities.

Non-food biomass, especially wood, is playing an **increasingly important role in the materials sector**. Products derived from plant resources are becoming hugely popular all over the world, a trend that is accelerating with the predicted depletion of fossil fuels.

In addition, the wood industry is emerging as **a model for circular economy**, offering a bio-based, renewable and fully biodegradable material. However, there are a number of constraints associated with its use in furniture and construction that make recycling more complex and raise challenges when it comes to recovering the value of this material at the end of its life. Against the backdrop of the environmental transition and targets to decarbonise buildings, the use of wood and wood-based materials continues to grow.





ENSTIB has positioned itself at the heart of this transition, offering cutting-edge training and research based on a cross-disciplinary approach between life sciences and chemistry.

At the heart of the bioeconomy, the wood biorefinery breaks down plant resources to extract different components, paving the way for the development of new bio-based materials. Whether they are organic, carbon-based or even ceramic, bio-based materials have a wide range of applications in a variety of sectors, including energy, the environment, transport, healthcare and everyday consumer goods.

Some examples of careers in the sector of bio-based materials chemistry

- *Bio-based materials chemistry engineer*
- *Materials biotechnology researcher*
- *Biorefinery and green chemistry engineer*
- *Bio-based materials innovation project manager*
- *Bio-based materials production manager*
- *Biomass deconstruction process specialist*
- *Bioprocess and biomass transformation engineer*
- *Bio-based materials Life Cycle Assessment (LCA) specialist*
- *Bioeconomy and sustainable materials consultant*





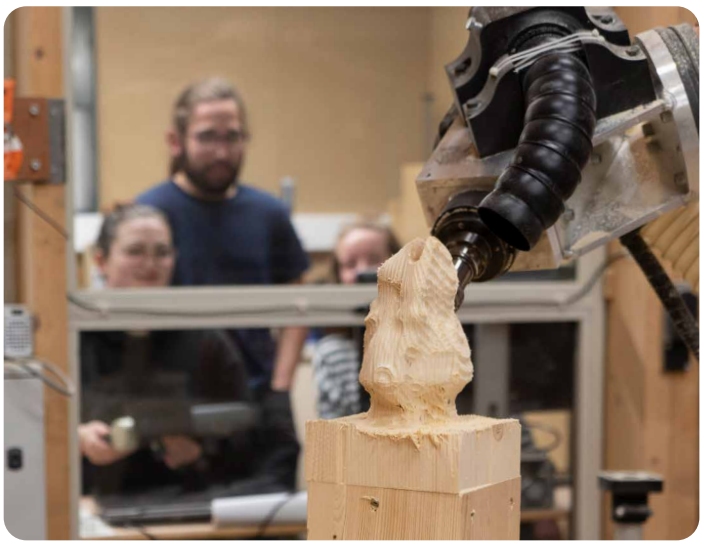
INDUSTRIAL SYSTEMS ENGINEERING

MODERNISING AND OPTIMISING THE WOOD INDUSTRY

The wood industries are constantly evolving and modernising to remain competitive in a challenging global market.

The wood industry is divided into two main categories: primary processing (sawmills) and secondary processing (panels, building materials, furniture, industrial joinery and wood fuels). These different activities mainly serve the construction, home furnishings and energy sectors.

Industrial systems engineers trained at ENSTIB are highly sought-after for key positions in production line management, supply chain monitoring and project management both in the methods office and in the field. They are also in demand in service companies linked to the wood industry, on account of their versatility and ability to innovate.



Increasing the competitiveness of companies is based on the use of modern tools and methods such as quality management, digital engineering, collaborative product design processes and the optimisation of industrial and logistics systems.

Automation, robotics and traceability are also essential levers for modernisation. A thorough understanding of wood-based materials and the transformation processes specific to this sector is an essential skill that is developed in all ENSTIB training courses.

Thanks to its training programmes tailored to today's industrial realities, **ENSTIB prepares its students for positions of responsibility, both in the management and administration of companies in the wood industry, while incorporating the principles of circular economy and industrial ecology.**

Some examples of occupations in the sector of industrial systems engineering

- *Production management engineer*
- *Industrial wood workshop manager*
- *Industrial logistics manager*
- *Industrial systems engineering project manager*
- *Continuous improvement and quality manager*
- *Process automation and robotics engineer*
- *Business manager in the wood industry*
- *Methods office manager*



WHY
STUDY AT ENSTIB, IN EPINAL?

A RICH TERRITORY: CYCLING, HIKING, CULTURE, NATURE AND FORESTS



WOOD, A LOCAL BIO-BASED MATERIAL PAR EXCELLENCE





A MODERATE COST OF LIVING FOR AN ENHANCED QUALITY OF LIFE

SPORTS FOR EVERYONE: SWIMMING POOL, VOLLEYBALL, CANOEING AND KAYAKING, BADMINTON, ICE HOCKEY, RUGBY...

WHY CHOSE ENSTIB?



- A PRODIGIOUS **HUMAN-SIZED** SCHOOL
- LESS THAN 15 DAYS TO FIND A JOB



- ALMOST 30 ACTIVITIES ORGANIZED BY STUDENT ASSOCIATIONS
- AN **ATTRACTIVE** SECTOR AT THE HEART OF INNOVATION



PROMOTIONAL SPONSORS

2029 – Cyril FLORÈS
The BORDET Group

2028 – Antoine Thébault
President of the THEBAULT Group

2027 – Olivier CRANCEE
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2026 – Yoann QUELLIEN
CEO of Work4Cad

2025 – Ernest SCHILLIGER
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2024 – Lorenz GIANNONI
President of Sanijura

2023 – Pierre PIVETEAU
President of Piveteau Bois

2022 – Michel DRUILHE
President of France Bois Forêt

2021 – Dominique WEBER
President of CODIFAB

2020 – Sylvain LARROUY
President of Maître Cube

2019 – Frédéric COIRIER
CEO of the Poujoulat Group

2018 – Dominique GAUZIN-MÜLLER
Architect and Editor-in-Chief of the magazine EcologiK

2017 – Xavier DEGLISE
First director of ENSTIB

2016 – Bertrand BURGER
President of the Burger & Cie Group

2015 – Martin BRETTENTHALER
Pavatex – Switzerland

2014 – Jean-Pierre FINANCE
Université Henri Poincaré and Université de Lorraine

2013 – Federico GUIDICEANDREA
President of Microtec – Italy

2012 – Philippe ROUX
CEO of Charpente Houot

2011 – André ANTOLINI
President of the Professional Syndicate for Renewable Energies

2010 – Brad BOSWELL
CEO of Independent Stave Company, Merrain International – USA

2009 – Paul & Philippe SIAT
The Siat-Braun sawmill

2008 – Pascal JACOB
The Jacob SA Group

2007 – Rainer HUNDSDÖRFER
CEO of Weinig Group – Germany

2006 – Christian PONCELET
President of the French Senate

2005 – Thierry BERGERAULT
PBM Import

2004 – Pascal NAZARE
Dexter

2003 – Laurent MAZIES
Biesse, France

2002 – Joseph MAESTRI
Maestri

2001 – Alain LEFEBVRE
Lefebvre Frères

2000 – Roger LESBATS
CIB

1999 – Antonia LENTZGEN
Schmitt kitchen designs

1998 – Pr. Julius NATTERER
EPFL – Switzerland

1997 – Noël ANCIAN
The Isoroy Group

1996 – Philippe SEGUIN
President of the French National Assembly

1995 – Patrick GAY
The Lapeyre Group

1994 – Michel SERGENT
The Oriel sawmill

1993 – Gérard LEMAIGNEN
CNDB

1992 – Vidar LERSTAD
NSI

1991 – Loic BRICIE
Pannovosges

1990 – Christian LOUIS VICTOR
Houot

1989 – Claude WEISROCK
Weisrock

1988 – Michel PARISOT
The Parisot Group

1986 – Pr. Michel BOULANGER
Université de Nancy 1

1985 – Pierre MALAVAL
CTBA

1984 – Philippe LEROY
Regional Delegate for the Massif de l'Esterel

1983 – Gérard MOULET
Croisés Profils

1982 – Jean NANTY
CIB

LORRAINE INP Enstib

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