

# ENGINEER IN THE WOOD INDUSTRY

**“** I followed up a high school diploma in Mechanical Engineering with a 2-year course in carpentry/construction, then did a 1-year preparatory class to take the ENSTIB entrance exam. I finally graduated from ENSTIB in 2014 with an engineer's diploma option Construction.

I work as a studies department engineer for STABILAME in Belgium, the company I did most of my internships in. I'm in charge of stability studies for the buildings we construct – mainly single family homes, but also multi-family residences, service residences (nursing homes and care homes for example), creches and schools, the tertiary sector, special projects like traditional wooden structures for churches, pile supported buildings on water, wooden barges and so on).  
In the wider sense, I did the ideal course for this job ! And at the same time, this job is an ideal fit for my course and my love of wood as a building material. My best memory from my time at ENSTIB is being able to interact with all the different people in and around the school. It's a human sized school, which means you can chat with everyone – from the dean to the maintenance crew, from faculty and the admin team to the students. It's one big network, like a family !



Xavier Laurent  
Promotion 2014



LORRAINE  
**INP** Enstib  
ÉPINAL

WOOD : NATURAL INNOVATION

# ENGINEER IN THE WOOD INDUSTRY



## FULL-TIME COURSE

### THE APPLICATION PROCESS

A jury, made up of the Dean, persons in charge of the entrance exam and the course, examine student files, then draw up a list of eligible students. Candidates from engineering school preparatory classes must have validated their 2<sup>nd</sup> year and obtained a favourable recommendation from their previous school. Minimum requirement is a favourable recommendation to further studies in an engineering school by the head of Department of technical university or a headmaster. Only students who have validated 2 years of university or equivalent will be invited to an interview.

### THE INTERVIEW

The interview with a jury of teaching staff, people from industry or alumni, lasts around 20 minutes and tests students' personality and general knowledge. Part of the interview may be in English. Different jury members all use the same rating grid. Prior to the interview, all candidates take a 30-minute written test comprised of a summary of a text in French and a TOEIC-style English test. A zero in the summary, English, science or the interview is eliminatory. Candidates taking orals in Epinal, may be met and lodged by a ENSTIB engineering student if they wish, to facilitate the procedure. Results are sent to the candidate only by e-mail or can be consulted on the eCandidat app for file application candidates. Offers on eCandidat must be accepted within 10 days, or will be withdrawn. Clearing is according to potential resignations and offers must be accepted on eCandidat within 10 days.

### ENTRANCE EXAM FEES

Entrance exam fees are €30 for non-grant students and €15 for grant students.

### OVERSEAS STUDENT APPLICATIONS

Overseas students must apply through Campus France. Applications received will be examined and eligible students will be invited to a special interview (see paragraph The Interview). Candidates can only apply once to ENSTIB for the same course.

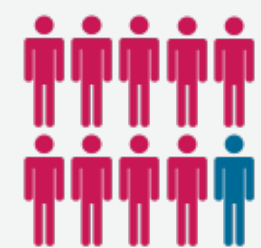
## APPRENTICESHIP APPLICATIONS

### REGISTRATION PROCESS

For further information on applying, please visit

[www.enstib.univ-lorraine.fr](http://www.enstib.univ-lorraine.fr)

## ENSTIB GRADUATES :



professionally active within  
6 months  
**90%**



sign first contract on average in  
**12 DAYS**



employed in study-related  
sector  
**98%**



Tanguy Praud  
Promotion 2010

**“** I did Engineering with a Production and Logistics option at ENSTIB. I graduated in 2010 and a few months later I got a job in Paris with FCBA, the technological Institute for forestry, cellulose, wood construction and furnishing. Then in 2013 I moved to Canada. I now work for a company called Spieth America as Operations Manager. The company's based in Ontario and we make and sell gymnastics equipment all over the world. I work with my life-partner Anne-Sophie Bajorski who's an engineering graduate from the class of 2012.

The course I took in ENSTIB reflects 100% the job I do now. It's true that the Production and Logistics option, together with the accreditation Basics of Supply Chain Management, my excellent level in languages and multiple internships abroad have enabled me not just to access this international job, but also to adapt, to integrate and progress.

And I have so many good memories from this school. One in particular comes to mind : we arranged a spur of the moment barbecue before leaving for our internships at the end of the 1st year. We thought there'd only be about a dozen of us, but the whole class turned up ! Our little event turned into a party. Everyone did something, from cooking to cleaning up, totally spontaneously. It was so much fun. That's when we realized what we wanted from life : Work hard, Play hard.

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### COURSE PRESENTATION

ENSTIB proposes specialist engineering courses for the wood sector. Our comprehensive general training combined with sector specific coursework enable our engineering graduates to take on positions of responsibility in fields such as production, design office, methods, research and development or quality.

The course duration is 3 years and is characterized by its multidisciplinary aspect which means our engineers can happily enter any field of the wood and eco-materials sector

Over 90% of ENSTIB graduates work in wood related sectors and the average time to find a first job is under one month.

### INTERNSHIPS AND PROJECT

The course includes 3 internships :

A 2 – 3-month internship abroad in a non-French speaking country at the end of the 1st year, aiming to improve students' language skills and international awareness

A 6 – 11-week 'assistant engineer' internship at the end of the 2nd year during which the student carries out engineering tasks while remaining under the supervision of the company.

A 4 – 6-month end-of-studies internship closing the 3rd year which confronts the student with hands-on engineering within industrial constraints.

The industrial project during students' 3rd year gives them a first glimpse of industrially-oriented technological research.

### SPECIALIZATIONS

The first 2 years constitute the core content of the engineering course, whereas the first semester of the 3rd year consists in specialization subjects, allowing the student to perfect his knowledge in fields directly related to his or her professional project. Students choose between various professional-oriented paths.

### RECRUITMENT CRITERIA

Preparatory class or 2-year university diploma in the wood sector.

## INTERNATIONAL GATEWAYS AND DOUBLE DIPLOMAS

### Double diplomas

- Engineer ENSTIB – Engineer AgroParisTech (1st and 2nd years in ENSTIB, followed by 2nd and 3rd years in AgroParisTech – Nancy)
- Engineer ENSTIB – Architect (ENSArchitecture – Nancy) (1st and 2nd years in ENSTIB, followed by 3rd, 4th and 5th years in the French Higher National School of Architecture, in Nancy)
- University of Quebec (UQAC) : 3-year university diploma in Project Management, Eco-counselling and Organizational Management

Various double cursus courses are available in the 3rd year – Master's in : Research ; Agronomic science, environment, territories development, countryside and forestry ; Complex Systems engineering ; Wood Construction Architecture ; Business Administration, Entrepreneurship.

Partner universities also allow students to study abroad for a semester.







# 1<sup>ST</sup>-YEAR

# 2<sup>ND</sup>-YEAR

# 3<sup>RD</sup>-YEAR

# INTERNSHIPS AND PROJECT

### Students

29 ECTS  
402h

**SCIENCE AND TECHNOLOGY SUBJECTS FOR ENGINEERING**

- IT and statistics
- Thermodynamics
- Design and design tools
- Fluid mechanics
- Thermal transfer
- Materials solidity

**WOOD SCIENCE AND TECHNOLOGY**

- The forest-wood context, wood products and materials
- Wood structure and properties – anatomy
- Conservation, finishes and adhesives
- Design and manufacturing

**HUMAN, ECONOMIC AND SOCIAL SCIENCES**

- Economy and mangement
- Communication
- English

**1ST-YEAR INTERNSHIP IN ENGLISH-SPEAKING COUNTRY**

In a wood sector business

2 à 3  
months

### Apprentices

29 ECTS  
354h

**SCIENCE AND TECHNOLOGY SUBJECTS FOR ENGINEERING**

- Innovation and industrialization
- Mechanical, dynamic and acoustic model-building
- Logistics and industrial manufacturing
- Quality and environment management

**WOOD SCIENCE AND TECHNOLOGY SUBJECTS**

- Wood construction
- Building thermics
- Chemical and energy valorization
- Industrialization and production improvement

**HUMAN, ECONOMIC AND SOCIAL SCIENCES**

- Business management and strategy
- Legal and operational management
- English

**2ND-YEAR ASSISTANT ENGINEER INTERNSHIP**

In a wood sector business or laboratory

2 months

### Students

23 ECTS  
294h

**SCIENCE AND TECHNOLOGY SUBJECTS FOR ENGINEERING**

- Innovation and industrialization
- Mechanical, dynamic and acoustic model-building
- Logistics and industrial manufacturing
- Quality and environment management

**WOOD SCIENCE AND TECHNOLOGY SUBJECTS**

- Wood construction
- Building thermics
- Chemical and energy valorization
- Industrialization and production improvement

**HUMAN, ECONOMIC AND SOCIAL SCIENCES**

- Business management and strategy
- Legal and operational management
- English

**2ND-YEAR ASSISTANT ENGINEER INTERNSHIP**

In a wood sector business or laboratory

6 à 10  
weeks

### Apprentices

23 ECTS  
194h

**SCIENCE AND TECHNOLOGY SUBJECTS FOR ENGINEERING**

- Innovation and industrialization
- Mechanical, dynamic and acoustic model-building
- Logistics and industrial manufacturing
- Quality and environment management

**WOOD SCIENCE AND TECHNOLOGY SUBJECTS**

- Wood construction
- Building thermics
- Chemical and energy valorization
- Industrialization and production improvement

**HUMAN, ECONOMIC AND SOCIAL SCIENCES**

- Business management and strategy
- Legal and operational management
- English

**2ND-YEAR ASSISTANT ENGINEER INTERNSHIP**

In a wood sector business or laboratory

2 months

### Students

24 ECTS  
288h

**SPECIALIZATION SUBJECTS**

3 modules to choose from among the 12 specialization subjects, according to the student's professional project or in accordance with the company

Wood bio-refinery	Characterizing and developing materials	Advice and expertise in wood materials
Building thermics	Environment	Energy production
Developing building materials	Dimensioning Structures	Global approach to wood projects
Industrialization of wood products and processes	Company logistics	Digital engineering for decision making

**END OF STUDIES PROJECT**

- End of studies project on an industrial issue
- Research and development project

**WORLD OF BUSINESS AND ANALYSIS**

- Module synthesizing knowledge of businesses, the sector and jobs
- Working with human realities
- In-depth analysis of a wood sector company

**END-OF-STUDIES ENGINEERING INTERNSHIP**

Internship carried out in a company or laboratory of the wood sector. Students are in charge of a clearly defined industrial project and supervised by a company executive

18 ECTS  
4 à 6  
months

### Apprentices

16 ECTS  
192h

**SPECIALIZATION SUBJECTS**

3 modules to choose from among the 12 specialization subjects, according to the student's professional project or in accordance with the company

Wood bio-refinery	Characterizing and developing materials	Advice and expertise in wood materials
Building thermics	Environment	Energy production
Developing building materials	Dimensioning Structures	Global approach to wood projects
Industrialization of wood products and processes	Company logistics	Digital engineering for decision making

**END OF STUDIES PROJECT**

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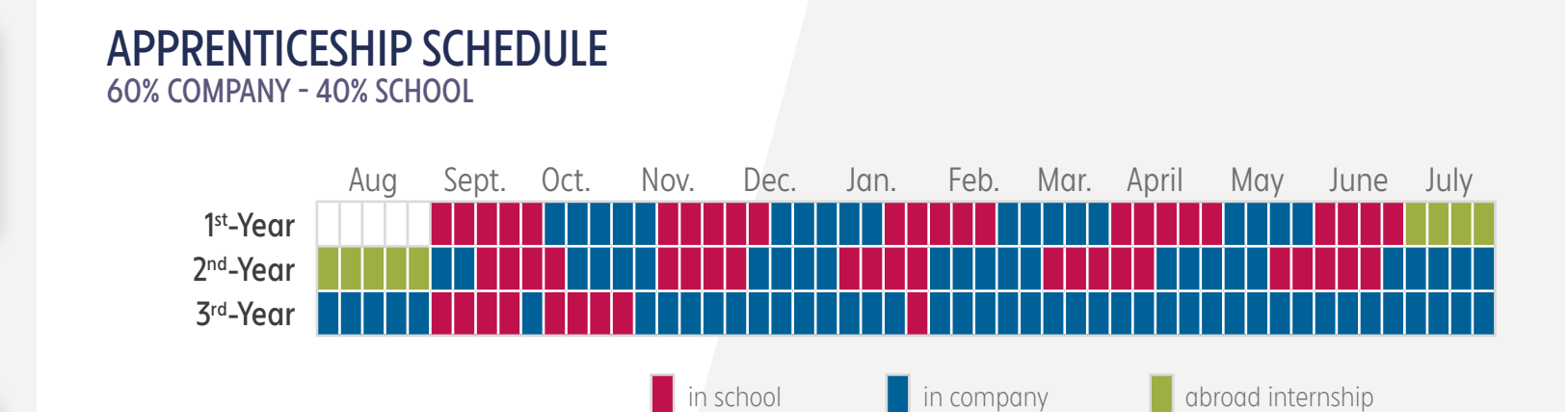
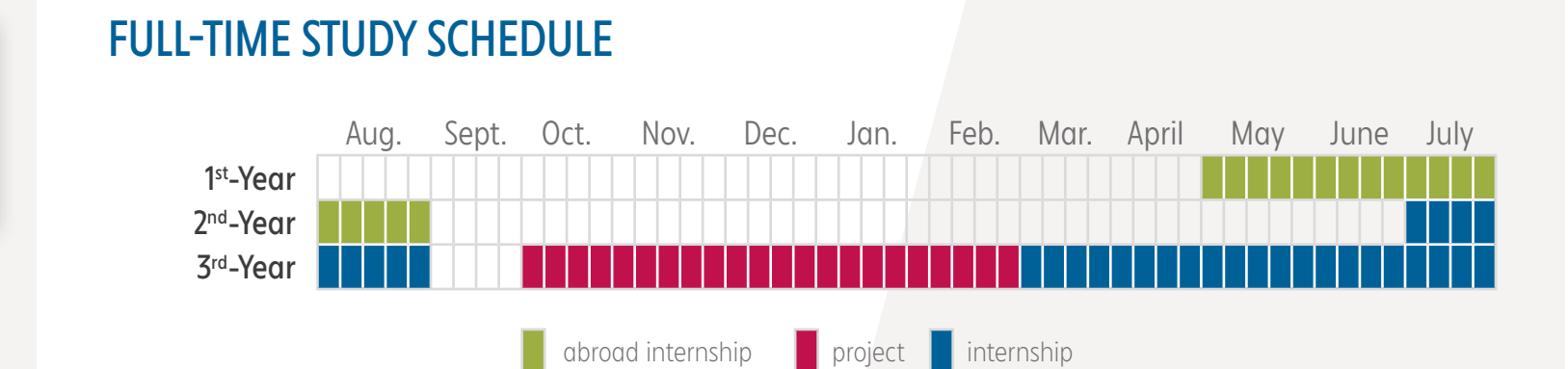
**WORLD OF BUSINESS AND ANALYSIS**

- Module synthesizing knowledge of businesses, the sector and jobs
- Working with human realities
- In-depth analysis of a wood sector company

**END-OF-STUDIES ENGINEERING INTERNSHIP**

Internship carried out in a company or laboratory of the wood sector. Students are in charge of a clearly defined industrial project and supervised by a company executive

25 ECTS



### WHAT IS THE APPRENTICE'S STATUS IN THE COMPANY ?

An apprentice is an employee of his or her company and therefore under its responsibility, via the apprenticeship supervisor. (S)he must carry out the tasks given. Throughout the 3 years of training, under the guidance of the supervisor, the apprentice will address specific tasks, build experience and gradually extend his/her responsibility within the company.

The supervisor in-company decides when and how to allocate these responsibilities. The tasks to be given to the apprentice and the relevant skills are listed in detail at the start of each semester. At the end of each semester, the supervisor returns a qualitative assessment of the apprentice's capacities.