



**A GREAT  
ENGINEERING SCHOOL**



***Reveal the human in the Engineers***

# A school of general engineers



**LORRAINE INP**  
les talents se lèvent à l'Est

## 5 years

after A-levels/high-school diploma

## 3 years

after a two-year technical degree

## An international school in Metz

At the heart of a partnership of National Engineering schools (ENI) (a group comprised of ENI Brest, ENI Metz, ENI St Étienne and ENI Tarbes) and the University of Lorraine's INP Collegium, the National Engineering School of Metz is a public university which, since 1962, has been shaping qualified engineers in the fields of mechanical, material and industrial engineering, with teaching based on a pragmatic and practical approach.

The school offers universal and career-oriented courses lasting either three or five years, and which are certified by the 'Commission des Titres d'Ingénieur' (CTI).

The ENIM course is tailored to the needs of businesses and to a constantly-changing world, by maintaining strong links with the industrial world and with its international academic partners.

Since 2010, the ENIM has benefited from a brand-new building, which combines aesthetic quality with exemplary functionality, and offers students a 3,000sqm technology hall, allowing them to discover the real-life applications of engineering.

## A dynamic campus

The ENIM is based in Metz's technology park which is 10 minutes away from the city centre and 20 minutes from the train station, thanks mainly to the Mettis, the local bus service. The technology park is made up of more than 250 companies with a total of more than 4,000 employees. Every day, 5,000 students study at this campus. This 117 hectare-wide area allows technological innovations to reach their full potential.

## Metz, a student city

Located close to Belgium, Luxembourg and Germany, Metz is a friendly city and a good place to live. Often referred to as "The Garden City", visitors are charmed by its landmarks surrounded by green spaces.



CONFÉRENCE DES  
GRANDES  
ÉCOLES





**1000**

students and engineering  
apprentices

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**150**

teachers and staff members

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**100**

external lecturers

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**7000**

active engineers

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**14**

professional fields

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**1 semester**

minimum abroad

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**100**

international partnerships

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**15 months**

of immersion in the industrial sector

# Building our future on values that unite us

The ENIM Community takes part in the society of tomorrow

## ADAPTABILITY

We are living in times of constant digital acceleration and technological innovation, as well as diversification of missions and skills for a given function. In order to be up to the challenge, professional adaptability is key.

## CREATIVITY

Creativity enables us to rapidly and efficiently find solutions to problems, even the most complex, and to have a certain creative vision of the future, therefore fostering innovation.

## OPEN-MINDEDNESS

It is an essential value for success. It entails accepting and respecting the ideas and opinions of others. It enhances creativity and enables us to have quality interactions with the people we meet.

## TEAM SPIRIT

Teamwork calls for a combination of non-technical skills. Working in teams in order to reach a common goal requires intuition and a sharp understanding of interpersonal relations, so as to know when to efficiently intervene.

## COMPETENCY

Competency is the ability to act professionally in a given situation. It consists in providing the expected results using the appropriate resources.

## COMMITMENT

This does not only encompass the completed or assigned tasks, but also implies what goes beyond what is expected. Being committed has a positive impact on the whole work environment.





## Educational excellence

The engineering student benefits from a professionalising and customised training. ENIM offers a stimulating environment with companies and research laboratories that help enrich the academic training and foster innovation.

## Our commitment

ENIM takes part in the success of its engineering students by offering specific arrangements and support to students with a distinctive profile: professional athletes or artists, students with disabilities, or international students.

## Optimal occupational integration

Companies play a key role in the school's strategy? They take part in the political decision-making process and work alongside ENIM to adjust the students' training to the needs of the companies. One of the school's strengths is to confront the engineers-to-be to the reality on the ground, to help them adapt to the needs of the companies.

## Multiculturalism

ENIM fosters multiculturalism by promoting incoming and outgoing mobility. These academic exchanges contribute to the necessary open-mindedness of engineers, and enable them to fully thrive in their professional and personal projects.

# Thriving by becoming an ENIM engineer

ENIM is already renowned for training pragmatic engineers in tune with the needs of the industry. Today, we intend to go further by adopting an innovative strategy based on three key training approaches.

## Reveal the human in the engineers

- ▶ Coach each engineering student so that they bring out their potential
- ▶ Offer a human training within high-level technical and scientific education
- ▶ Make the student the author and the leader of their training

## Train connected engineers

- ▶ Be attractive for technological and industrial sectors
- ▶ Boost performance and industrial innovation
- ▶ Leading an industry-changing research

## Train committed engineers

- ▶ Make ENIM a school of responsible engineers, committed to existing and future social and environmental challenges
- ▶ Train the citizen engineers of tomorrow
- ▶ Generalise corporate responsibility in the training through a 'learning-by-doing' approach

“ *Soft skills are becoming indispensable in the recruitment of recent graduates* ”

“ *The world is moving, society is changing, companies are evolving, the engineer is adapting!* ”





“ ENIM is a human-sized school, which, for 60 years, has been training engineers meant to work all over the industrial fabric. Each student is guided through the construction and realisation of their professional career, so that their training can make sense for them. Enrolling in the National School of Engineering in Metz means aiming to become a pragmatic, committed, responsible engineer that companies are looking for in order to face the challenges of tomorrow. With scientific and technological skills as well as developed soft skills, the ENIM engineer fully meets the recruiters’ expectations and can have a fulfilling professional career. ”

**Pierre Chevrier**  
Director of ENIM

# Building the engineer of tomorrow

ENIM aims at providing all its future graduates with human, relational and behavioural skills, in addition to the scientific, technological and management foundation.

Being an engineer is a multifaceted activity that implies :

- ▶ managing a project,
- ▶ supervising a team,
- ▶ designing/testing,
- ▶ producing/making/building,
- ▶ maintaining,
- ▶ making sure that an activity/a site is profitable,
- ▶ optimising processes,
- ▶ guaranteeing conformity,
- ▶ managing the logistics.

Each of those tasks asks for the use of skills that are not necessarily held by one single individual, but that correspond to the variety of skills indispensable to the well-functioning of a company.

Therefore, the training at ENIM aims at providing each of its graduates with the ad hoc skills in order for them to be operational right after they graduate.

## KNOW-HOW

- ▶ Technological expertise
- ▶ CAD, calculus and numerical simulation software
- ▶ Knowledge of regulatory frameworks
- ▶ Command of measuring instruments
- ▶ Continuous improvement technique
- ▶ Command of systems

## TRANSVERSAL SKILLS

- ▶ Negotiating
- ▶ Conflict management
- ▶ Team management
- ▶ Construction and follow-up of scoreboards
- ▶ Risk prevention and management

## BEHAVIOURAL SKILLS

- ▶ Interpersonal communication
- ▶ Analytical and synthetical skills
- ▶ Reactivity
- ▶ Creativity
- ▶ Stress management
- ▶ Ethics
- ▶ Proactivity

## THE KNOWLEDGE

Scientific and technical base  
Indispensable knowledge





“ My company annually produces about 8 million steering columns for clients such as Audi, Volkswagen, Mercedes, BMW, or even Jaguar Land Rover. ENIM maintains close relationships with the industrial fabric, which enables it to adapt its pedagogical methods and content. We have about thirty ENIM engineers in our staff. We are partners because as a responsible company, we believe it is our societal duty to work hand-in-hand with all the major actors of training. ”

The Chief Executive Officer  
**ThyssenKrupp PrestaFrance**  
Florange





## 5 years to shape your future

A two-year general preparatory course, followed by a three-year engineering course: five years exploring engineering to build future tailor-made to each student, push them forward and develop a number of abilities, opening a diverse range of opportunities in a number of sectors.

We currently welcome 5 professional athletes who benefit from an individual guidance and specific studies arrangements so they can carry out their sports projects while pursuing their engineering studies.

“

*Thanks to the high-level athlete status and to the commitment of ENIM's board and teachers, I benefit from an arrangement of my studies so I can study while training with my professional handball training centre. I have completed the first and second year over the course of three years. My weekly timetable is also adapted to my daily training sessions, which take place seven times a week.*

”

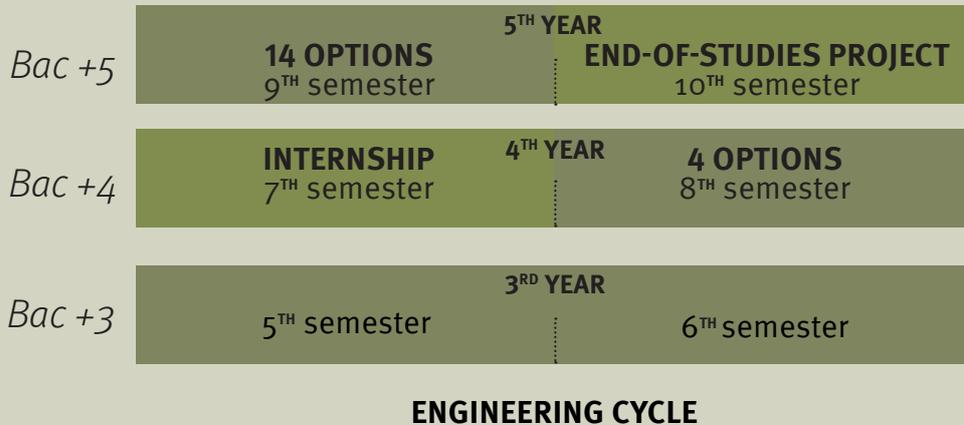
**Julie Le Blévec**  
third-year engineering student

## Study plan and training at ENIM

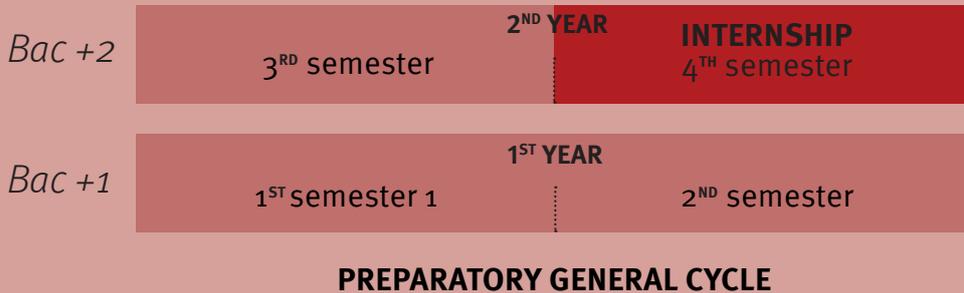
**DOCTOR ENGINEER  
(PhD thesis)**

**OCCUPATIONAL  
INTEGRATION**

**ENGINEERING GRADUATE (MASTER DEGREE)**



**BAC+2-LEVEL ENTRY EXAM**  
for students in BTS, CPGE, CUPGE,  
DUT, Bachelor



**GEIPI-POLYTECH EXAM**  
For high school seniors (general and technological – STI2D – sections)



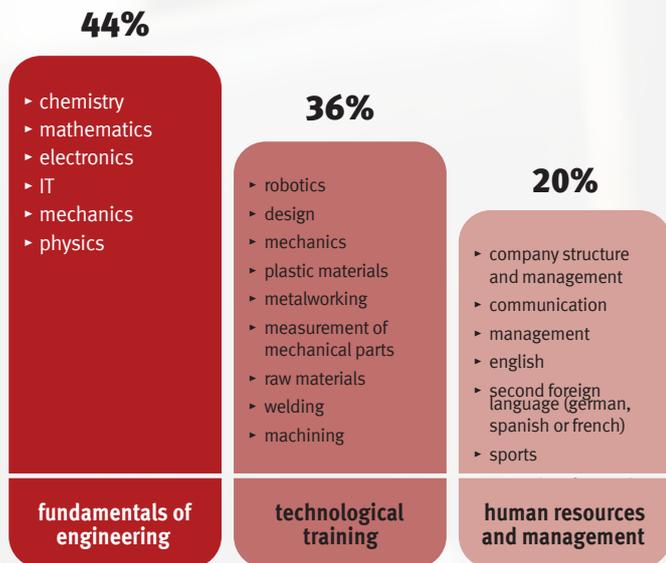
# GENERAL preparatory course

These two years introduce students to the engineering sector, the business world and the duties an engineer could have to fulfil, all while laying the required scientific and technical foundations combined with interpersonal skills.

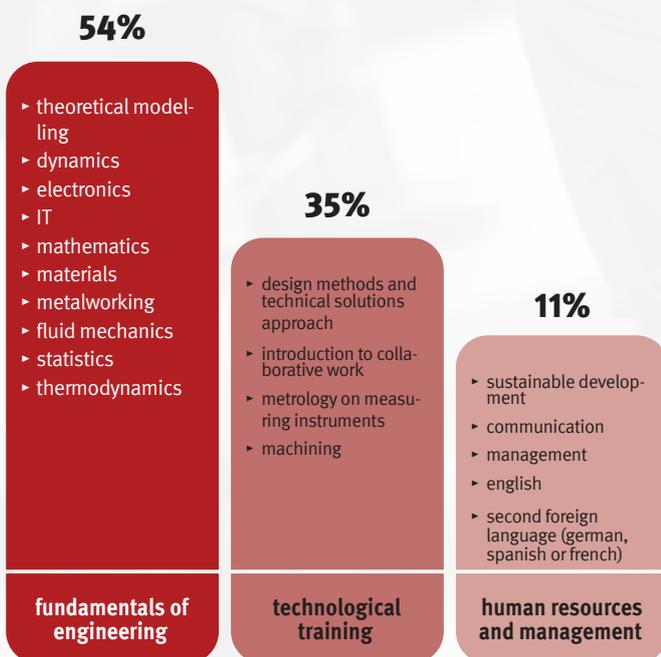
At the ENIM, first years are supported in their transition from secondary to higher education, giving all students the best opportunity to succeed. As early as second year, students are put in contact with the industrial world through a 5-month work experience, but also with several company visits, all of which act as a stepping stone into the industrial world.

These two years enable students to develop the skills required to successfully integrate into the engineering course of their choice.

Distribution of teaching hours and classes during the first year



Distribution of teaching hours and classes during the second year



# ENGINEERING COURSE

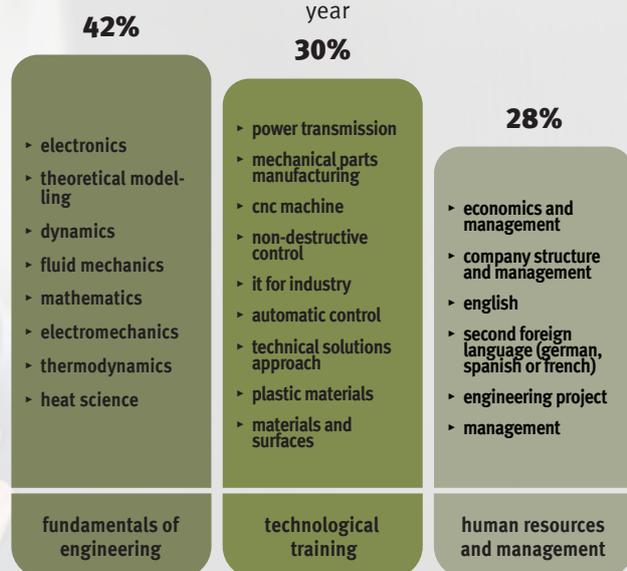
It is possible to go directly into the engineering course after studying for two years at another university. The engineering course enables students to perfect their scientific knowledge, define and fine tune their career objectives, and tackle today's professional challenges. Over these three years, teaching is focused on lectures and seminars alongside practical work, group projects and company visits, as well as networking with professional engineers.

During their third year, the students have the opportunity to participate in group projects that enable them to develop their soft skills. They are therefore confronted to the issues of corporate social responsibility, sustainable development and civic education.

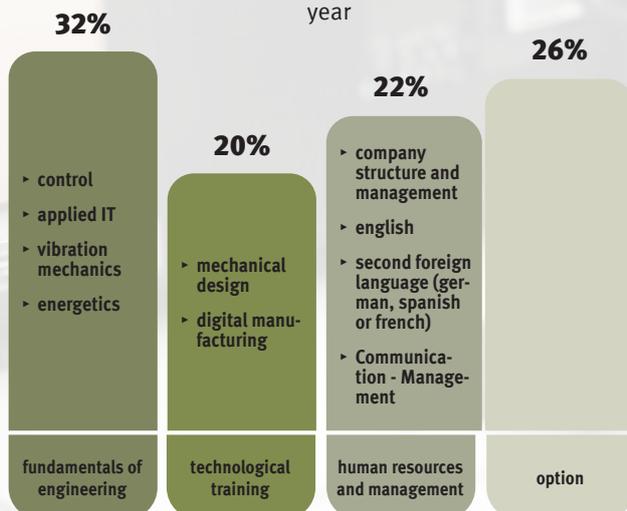
A 5-month internship and an end-of-studies project are the two highlights of this course. Through the development of a technically-demanding assignment, the 4th year internship aims to give ENIM engineers a good knowledge of working methods and the stresses of the industrial world. They will then be able to apply what they have learnt to the real-life problems they encounter.

In 5th year, the end-of-studies project marks the end of the course. It allows students to bring together and apply all the knowledge gained throughout the engineering course. It marks a complete transition from academia to employment.

Distribution of teaching hours and classes during the third year



Distribution of teaching hours and classes during the fourth year



ENIM is a partner of the 'Cordées de la réussite' programme. This programme aims at :

- ▶ Removing the psychological or cultural barriers that can hinder students who come from a modest family and get them to refrain themselves when they actually possess the necessary skills to pursue demanding careers.
- ▶ Encouraging these students to enrol in long studies such as preparatory schools (CPGE), university training or 'Grandes Écoles'.

## An education tailored to you

The students develop their career objectives throughout their studies. The ENIM offers each student the opportunity of personalising their course, based on their professional and personal aspirations.

Therefore, students can:

- ▶ carry out internships and a PFE (end-of-studies project) in a wide range of sectors
- ▶ study abroad
- ▶ complete a dual degree
- ▶ take more research-orientated courses

### Fourth year specialisations

- ▶ design and innovation
- ▶ modelling and testing
- ▶ management and organisation
- ▶ production and improvement

### Five year specialisations

- ▶ industrial maintenance and facility management
- ▶ research, development and innovation : materials and processes for the industry
- ▶ research, development and innovation : innovation and performance for industry 4.0
- ▶ behavioural management of corporate safety
- ▶ computer assisted design
- ▶ automotive performance
- ▶ supply chain management
- ▶ supply chain management alternately
- ▶ biocad - master biomechanics
- ▶ industrial energy
- ▶ quality and continuous improvement
- ▶ production line management
- ▶ innovation and entrepreneurship
- ▶ ISTE Business School Paris

# Progressive professional immersion

Throughout their education, our engineering students must apply their knowledge and skills to the industrial world during their in-ternships.

In order to put their academic knowledge into practice, students experience 15 months of in-ternships spread across the five-year course.

## Industrial internships training students for the industrial world

### **A 5-month internship during the second year to get a glimpse of an engineer's work**

From year 2 at ENIM, the engineering students are confronted to the work environment through a 5-month internship. This is the first discovery and application of their transversal, hard and soft skills acquired since year 1.

### **A 5-month internship during the fourth year to develop their technical skills**

The fourth year 5-month internship consolidates the foundation skills acquired during the training. The engineering student faces technical, economic and relational challenges in the workplace. The student offers innovative and sustainable solutions to meet the company's needs.

## The end-of-studies project a sign of excellence for firms

### **A 5-months End-of-Studies Project (PFE) to have a first professional experience**

The end-of-studies project (PFE) is a stepping stone to employment and is the final stage of the students' education. This project is an opportunity for students to experience the reality of the field, to build their first professional network and to strengthen their personal and career objectives.

More than just a final internship, the PFE is a high-quality service provided to businesses. The ENIM accompanies businesses through the provision of quality service. Over 20 weeks (a total of 1,600 hours) a team made up of two future engineers, teachers and staff will work on a project.

## Another take on professional immersion: the apprenticeship in collaboration with ITII Lorraine

The ITII (apprenticeship) gives the opportunity to obtain an engineering degree while simultaneously acquiring a true professional experience over the course of 3 years. Becoming an ENIM engineer through apprenticeship means being able to manage tangible industrial projects. The goal is to train real professionals thanks to a progressive immersion in the industrial world.

- ▶ During the first year: 2 days of academic training and 3 days of training in the company
- ▶ During the second and third years: 3 days of academic training and 2 days of training in the company



# An education grounded in Research

The link between research and engineering is a core strength of the curriculum, allowing us to constantly improve the quality of teaching and give students greater access to doctorates. Alongside their engineering training, students can start preparing for a research Master's degree via the 5th year specialisation "research development and innovation".

ENIM lecturers and researchers are members of four laboratories recognised for research areas ranging from mechanics of materials and the study of production systems, to industrial engineering and the optimisation of complex systems.

2 Master's degrees are therefore available to ENIM students

- ▶ I2M Master of Science (Mechanical and Material Engineering) – Mechanics, Materials, Structures and Processes option (MMSP) or Biomechanics option
- ▶ C2i Master of Science – Design, Industrialisation, Innovation

## 4

Laboratories

LEM3 - Laboratory of Microstructure Studies and Mechanics of Materials

LCFC - Laboratory of Design, Manufacturing and Control

LCOMS - Laboratory of Design, Optimisation and Modelling of Systems

LGIPM - Laboratory of Informatics Engineering, Production and Maintenance

# 7%

of ENIM students pursue a PhD

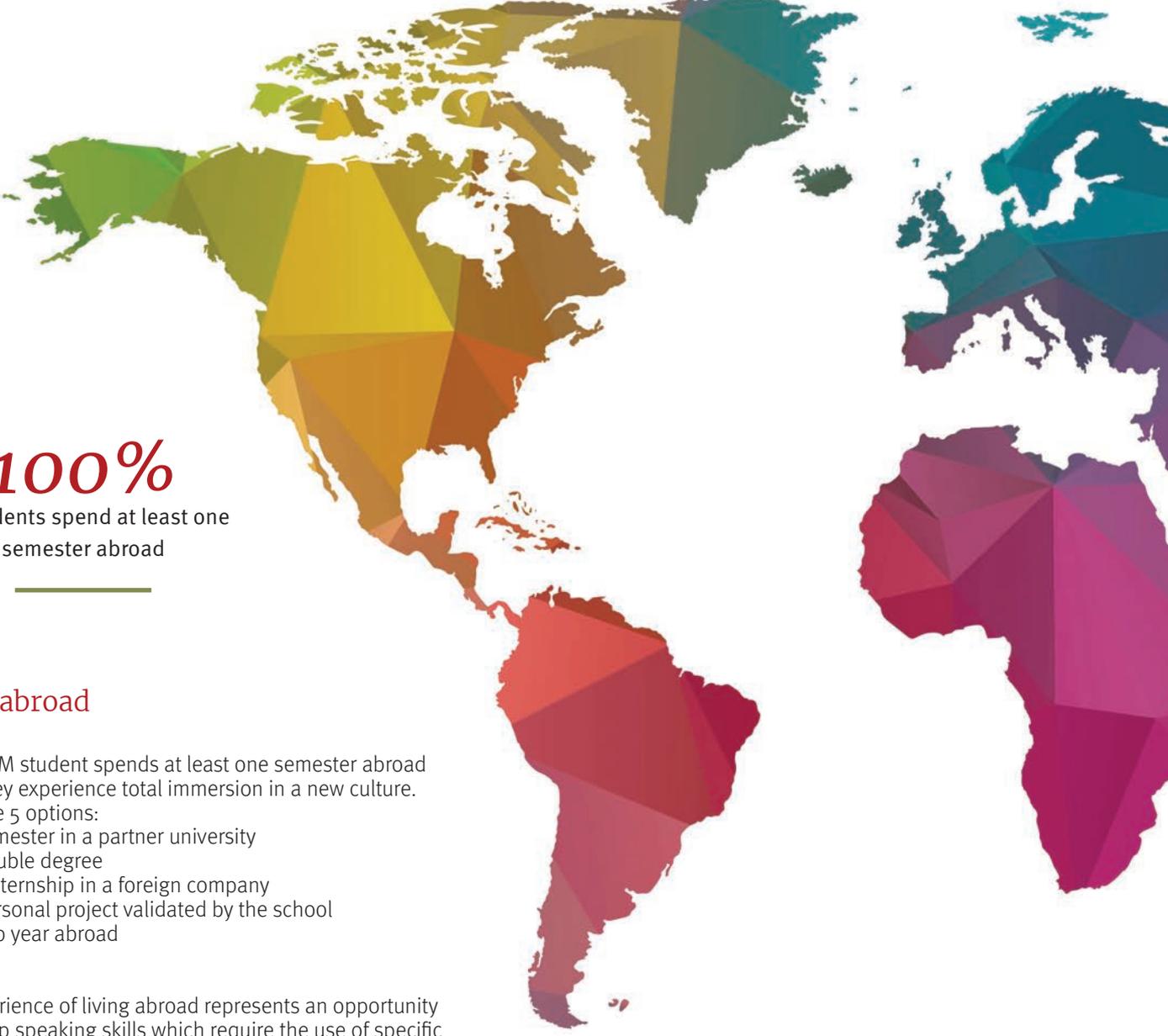
# 35

university lecturers and researchers

# 30

PhD students

# *The international experience, an opportunity to blossom*



**100%**

of students spend at least one semester abroad

## **Going abroad**

Every ENIM student spends at least one semester abroad where they experience total immersion in a new culture.

They have 5 options:

- ▶ A semester in a partner university
- ▶ A double degree
- ▶ An internship in a foreign company
- ▶ A personal project validated by the school
- ▶ A gap year abroad

This experience of living abroad represents an opportunity to develop speaking skills which require the use of specific lexis. Thanks to this experience, the ENIM engineer gains open-mindedness and adaptability, enabling them to communicate in an international environment.

Numerous international cooperation agreements are established with renowned universities to welcome the students..

Feedback and supervision from the International Office at ENIM are made available to the students wishing to get involved in an international experience.

“ *The international experience, an undeniable added value for an engineer*

”

100

international partners

20

double degrees abroad

30

ERASMUS conventions

40

framework agreements outside of Europe



## The international experience at ENIM

The multicultural immersion is also at play within ENIM. Each year, numerous international students are welcome in the framework of academic exchanges or double degree programmes. ENIM offers double degrees in cooperation with various higher education establishments worldwide (Colombia in Medellín, China in Nanjing, Germany in Kaiserslautern...)

The ENIM training encourages and supports international mobility by providing the engineering students with English classes (as a first foreign language) and with Spanish or German classes (as a second foreign language). In English, the B2 level is required (a TOEIC score of at least 785) in order to obtain the diploma. Mastering a foreign language is an asset to pursue an international career.

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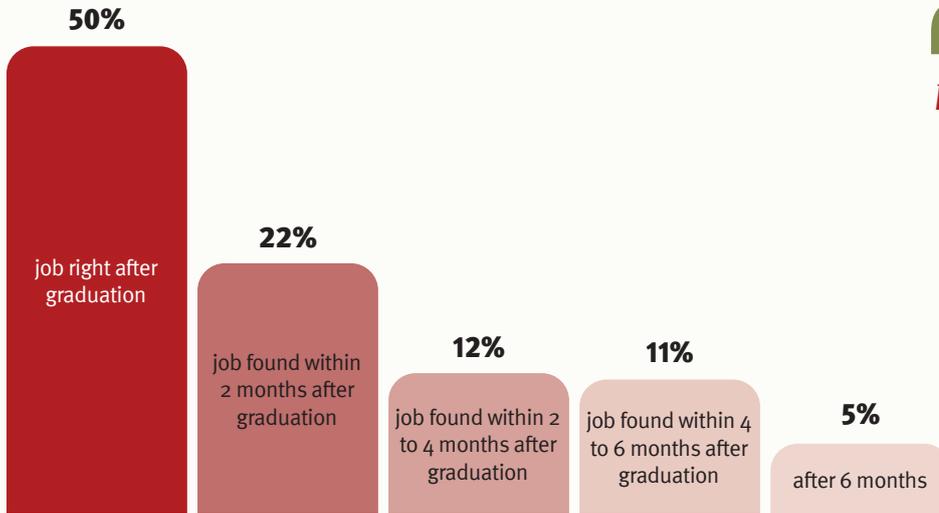
*For our second-year internship, we went to Novo Mesto, in Slovenia. Five interns were selected for this professional immersion. The company Renault Revoz has welcomed us for four months. We shared a housing and worked together in the factory where we carried out our assigned task: optimising the operators' workstation, in order to increase profit. Our free time was dedicated to sports, culinary and cultural activities. Each week, we travelled across the beautiful country of Slovenia; we enjoyed the different landscapes and the rich and interesting culture. I learned how to live in a community. I discovered how a great industrial group functioned, and I will certainly seize the opportunity to carry out new projects abroad.*

”

**Camille Dill**  
Fourth-year engineering student

# A successful occupational integration

## Timeframe before finding a job

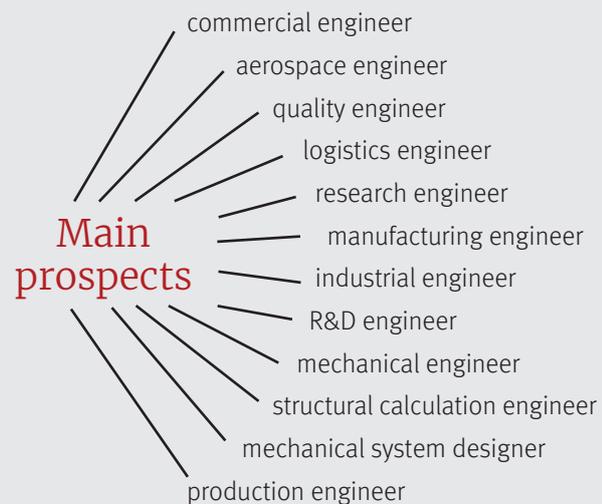


“ The ENIM engineer is a profile sought after by companies and recruiters ”

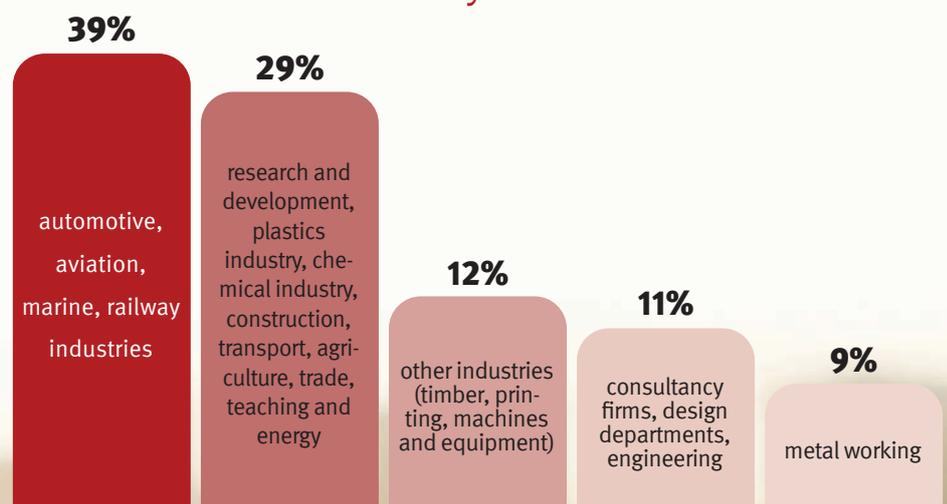
I integrated ENIM after graduating high school (scientific section) with honours. During my studies, I have carried out two 5-month internships: At Valeo Vision Systems in Ireland during my second year, and at Constellium in Colmar during my fourth year. During my fifth year, I carried out a double degree programme with the speciality “Supply Chain Management”. I had a work contract with XPO Logistics Warehousing as a Project Leader. After graduating, this company offered me a permanent executive contract for its design office Transport France as a Solution Design Engineer. The purpose of this position is to bring a personalised solution to different clients in order to better meet their needs in terms of transport and storage of their merchandise.

I will never forget the years I spent at ENIM, where I had the opportunity to grow and to be part of a true family.

Julien HUET  
graduated engineer



## Activity sectors



95%

of graduates find  
a job within  
6 months of graduation

37600€

average annual  
starting salary (gross with bonus)



## Companies train you teams

Right at the junction of the industrial world and the research and teaching environment, ENIM offers a great contribution to innovation and to the management of changes thanks to its training adapted to your needs.

Available to all professionals, the training at ENIM can lead to:

- ▶ An engineering degree (validation of experience or apprenticeship)
- ▶ A specialised Master's degree: Logistics and Industrial Project Management
- ▶ A certification in various fields: continuous improvement, non-destructive control, etc.
- ▶ The University degree ('Diplôme Universitaire')
- ▶ A personal development within the company.

The training we offer can also be qualifying and enable the colleagues to develop their skills to better carry out the missions that they are given in technical fields such as high-speed machining, industrial computing, maintenance, rectification, design...



“

*My experience in the association ENIM-Etudes has been very beneficial for me, personally and professionally. Being the president of a junior enterprise taught me how to manage a team and about corporate culture. This associative commitment has been a great transition from the student world to the professional world, and it makes us more pragmatic, which is a strong asset on a resume. I learned how to push myself, I discovered my qualities and my flaws, and above all it enabled me to have a better vision of my future. It has been a rewarding experience because I had the chance to learn by doing, and to learn from my mistakes. Therefore, today, I can say I have been the protagonist of my skills improvement. Whether professionally or personally, being part of a junior enterprise has been one of the greatest experiences I had at ENIM.*

**Elisa Bertani**  
Fifth-year student

”



“ *The skills acquired through associations are valued in the ENIM engineering training* ”

”





# Thriving through community work

Lead projects, be united, share your experience ...

For a long time, student societies have been heavily supported at the ENIM. These extra-curricular activities allow students to get involved in school life and to acquire the social skills required to tackle the varied situations that they will encounter across their career.

Integration, solidarity, personal fulfilment, taking responsibility and maturity are the key words of this policy. They complete the practical training as students can put into practice the theory taught in class.

The student office (BDE) is the 'central' association. It plays a key role in welcoming new students and building inter-promotion cohesion. It coordinates all associations and clubs. It is also the main interlocutor of the administration for student matters.

Each year, it organises (among other events):

- ▶ Theme parties in the school for the students
- ▶ Cultural, fun, humanitarian and sports activities
- ▶ The graduation ceremony



## 9 student associations

- ADENIM - student office (BDE)
- CRENIM - robotics association
- ENIM'ETUDES - junior business association
- ACUENIM - cultural association
- ENIM'TECH - technological association
- MRT - Metz racing team
- ASOENIM - social association
- ASENIM - sports association
- ADELIA - itii apprentices association

## Events throughout the year

Life at the ENIM is punctuated by a number of events suited for everyone.

- ▶ Freshers' week: Metz welcomes 22,000 students
- ▶ International week
- ▶ Inspire companies: a student-business job fair
- ▶ Open days
- ▶ Corporate week
- ▶ The ENIM night
- ▶ The ENIM SOLEX race
- ▶ Graduation ceremony

# Admissions

*when and how to apply at ENIM?*



Various processes are available to enrol at ENIM, depending on whether you are a senior in high school (general or technological – STI2D – section), in a preparatory school (CPGE), a Bachelor student (BAC+2 or BAC+3) or a master student (BAC+4).

● **Admission contact person for the initial training**

Stéphanie Dap  
03 72 74 87 18  
[enim-admissions-contact@univ-lorraine.fr](mailto:enim-admissions-contact@univ-lorraine.fr)

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If you want to apply for apprenticeship after the second or third year of Bachelor.

● **Admission contact person for apprenticeship**

Sandrine Thill  
03 72 74 86 43  
[sandrine.thill@univ-lorraine.fr](mailto:sandrine.thill@univ-lorraine.fr)

## BAC 0

REGISTRATION  
from January 20<sup>TH</sup> to March 29<sup>TH</sup> 2022  
on [www.parcoursup.fr](http://www.parcoursup.fr)

Scientific Baccalaureate (equivalent to British A-levels or American AP's) – “Concours Geipi Polytech” Entrance exam.

**124**

places for general high school graduates

**12**

places for STI2D baccalaureate

### Application process

- ▶ Application, interview or written exam

### MORE INFORMATION ON

[www.geipi-polytech.org](http://www.geipi-polytech.org)

## BAC+1

REGISTRATION  
from January 17<sup>TH</sup> to March 20<sup>TH</sup> 2022  
on [www.enim.fr](http://www.enim.fr)

After a one-year preparatory class for the Grandes Ecoles, applicants can join the second year of the ENIM training.

**10**

places

### Application process

- ▶ Application + evaluation form

### MORE INFORMATION ON

[www.enim.fr](http://www.enim.fr)

## BAC+2/BAC+3

REGISTRATION  
from January 17<sup>TH</sup> to March 20<sup>TH</sup> 2022  
on [www.ingenieur-eni.fr](http://www.ingenieur-eni.fr)

After a two-year or three-year undergraduate technical degree, applicants will take the “Bac +2 groupe ENI” entrance exam.

**100**

places

### Application process

- ▶ Application + evaluation form

### MORE INFORMATION ON

[www.ingenieur-eni.fr](http://www.ingenieur-eni.fr)

## BAC+4

REGISTRATION  
from January 17<sup>TH</sup> to March 20<sup>TH</sup> 2022  
sur [www.enim.fr](http://www.enim.fr)

After a Bachelor, applicants can join the fourth year of the ENIM training.

**10**

places

### Application process

- ▶ Application + evaluation form

### MORE INFORMATION ON

[www.enim.fr](http://www.enim.fr)

## International degrees

Places are offered in year 3 and 4 for international students from countries listed by Etudes en France.

Application process : apply online on Etudes en France

More information on: [pastel.diplomatie.gouv.fr/etudesenfrance](http://pastel.diplomatie.gouv.fr/etudesenfrance)

For applicants whose country is not listed on Etudes en France, contact us at: [enim-scolarité-contact@univ-lorraine.fr](mailto:enim-scolarité-contact@univ-lorraine.fr)



*Become the versatile  
engineer of tomorrow*



ENIM - École Nationale d'Ingénieurs de Metz  
1 route d'ars laquenexy - 57078 metz cedex 3  
03 72 74 87 00

[www.enim.fr](http://www.enim.fr)

