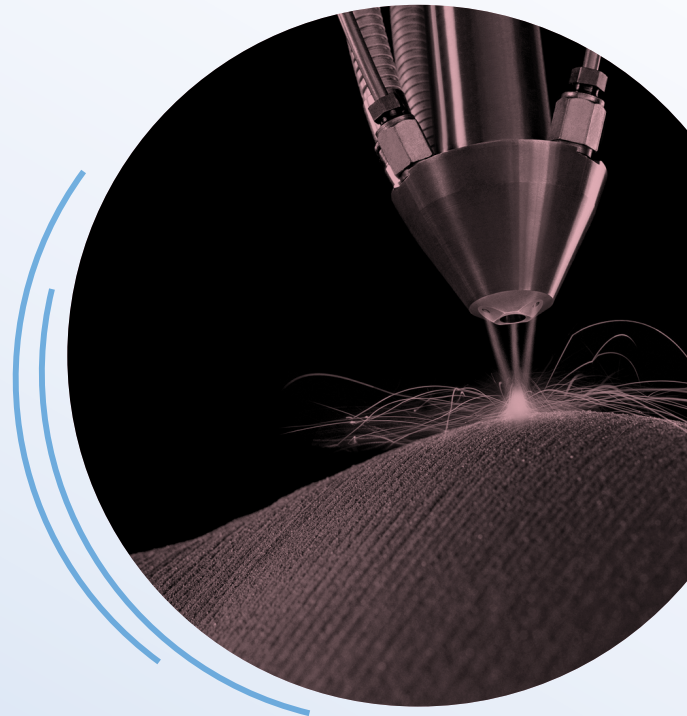


le **cnam**
école d'ingénieur·e·s

A major player in
the training
of engineers
in France



Si



Conservatoire national des arts et métiers

Our history

Founded in 1794, the Cnam is a public institution of a scientific, cultural and professional nature, under the supervision of the Ministry of Higher Education, Research and Innovation. Its main vocations are lifelong professional training, research and the dissemination of scientific and technical culture.

As a major network establishment with its head office in Paris, the Cnam has strong territorial roots in metropolitan and overseas France as well as internationally.

More than 220 years of history

54,700 students trained each year

1,000 engineering graduated every year,
55% of whom in apprenticeship

Our school

Created in 2003, the Ecole d'Ingénieur-e-s du Cnam (EICnam) implements the development strategy, the pedagogical orientations and the evaluation of the Cnam's engineering training offer throughout the network in Paris and in the regions.

One of the missions of our institution is social promotion through lifelong higher vocational training: the engineering training is a privileged tool for this.

We train students for the engineering diploma according to several modalities, mainly in continuing education outside working hours (HTT) and in apprenticeship.

For these two modalities, reconciling a professional life with studies requires tenacity, courage and perseverance, qualities that the 1,000 engineers graduating each year from the Cnam can boast.

Students in engineering courses outside working hours (HTT) must show a great deal of autonomy by building their career paths, often in parallel with their professional activity.

The engineering cycle is accessible to apprentices, in initial training, as long as they have two years of higher education and a host company has been found to support them over a period of 3 years as part of a work-study apprenticeship contract.

About the continuing education, we train future engineers, having worked for several years at the level of technician. They have a more pragmatic approach, a strong technical legitimacy and a mastery of innovation processes and complex environments that enable them to contribute to the economic development of companies.

75%

of graduates have a BTS or DUT (a two-year degree) at the time of enrolment at the EICnam

95%

of students are employed two years after graduation

15%

of HTT students and 10% of apprentices continue their studies after graduating as engineers

91%

of graduates would recommend someone close to them to follow a training course at the Cnam

35,000

engineers have graduated since the title was granted in 1924

20

specialties in 13 French regions

56

engineering qualifications, all accredited by the Cti*

3

training modalities

More than 5,000

students enrolled in our engineering training courses each year

2,200

professional and university teachers

Our multidisciplinary backgrounds

The EICnam offers training courses in line with the evolution of professions and the specific professional needs of companies.

Apprenticeship training

The Cnam has been a pioneer in the field of apprenticeship and, since 1990, has made it possible to diversify access to higher education by training apprentice engineers under the age of 30 using specific teaching methods and tools.

The students are in a process of integration into the labor market and stabilization in a job upon graduation.

This modality combines academic teaching at school with professional sequences in companies.

14 specialties through apprenticeship in 7 regions, i.e. 19 teaching sites in France

A **43%** increase in 5 years in the number of engineers graduating by apprenticeship

2,200 apprentices enrolled on an engineering course at the Cnam in 2019

95% of apprentices hold a DUT or a BTS at the time of registration

88% of apprentices are in employment six months after graduation, 75% of whom have executive status

Average gross annual salary after graduation: **38,000€**

We also train apprentices for the University Diploma of Technology (DUT - Diploma Bac+2) in 4 specialties:

- Mechanical and Production Engineering,
- Electrical Engineering and Industrial Computing,
- Computer Science,
- Physical Measurements.

At the end of the training, the apprentices can join the school's engineering cycle.

Continuing education «Outside Working Time» (HTT)

We offer the engineering diploma in evening classes or in distance learning to enable students to reconcile a return to school with their family and professional life. This training is aimed at employees, self-employed or job-seekers who are looking for additional training or professional mobility.

This modality, which is part of the history of the Cnam, allows access to the title of engineer in many specialties.

18 continuing education specialties outside working hours, accessible throughout the French network (metropolitan France and overseas) and abroad

Average age of graduates: **35 years** for men and **32 years** for women

Average time to graduation: **6** years

Average gross annual salary after graduation: **46,000€**

84% of HTT graduates report an improvement in their professional situation, including an average salary increase of 38% for those who have changed status, position or employer

64% of HTT graduates are in a management position six months after graduation, compared to 24% at the time of enrolment

The Union of Engineers of the Cnam, created in 1930, brings together 19,000 engineers graduated from the Cnam.

Student Training

The title of Cnam engineer in the specialty of Surveyor and Topographer is accessible in initial training under the student status. The training is given at the Ecole Supérieure des Géomètres et Topographes (ESGT), in Le Mans.

The EICnam is thus the only establishment in France to offer a real dual competence in technical and legal sciences in geomatics and land surveying at master's level.

- ♦ The ESGT is one of the three French engineering schools accredited by the Ordre des Géomètres-Experts (OGE).
- ♦ Numerous opportunities in the public or private sector
- ♦ More than **3,000** engineers trained since its creation in 1946
- ♦ Level of education of registrants: BTS (**53%**)
- ♦ **87%** of students are employed six months after graduation.

Validation of Acquired Experience (VAE)

VAE was created in 2002 in France. Since then, our establishment has acquired a proven expertise in this field.

The VAE recognizes the professional skills acquired and validates all or part of the Cnam's engineering diploma.

At least 3 years of experience at engineer level is required. A partial validation of experience can be completed by teaching units to obtain the certification.

97%
of VAE applications granted

A network of **70** advisers

60%
of candidates have 8 to 15 years of experience at the engineering level

The Cnam is an examination center for the IDPE system (State-qualified engineer)

Our specialties

Aeronautics and Space
Process Engineering
Agri-foodstuffs
Nuclear engineering
Surveyor and topographer
Automation and Robotics
Risk Management
Computing
Building and public constructions
Instrumentation

Chemistry
Materials
Energetics
Mechanics
Biological Engineering
Mechatronics
Electrical Engineering
Electronic Systems
Industrial engineering
Telecommunications and networks

In **blue**, courses available only as apprenticeships.
In **red**, the courses are only available in HTT.
In **green**, courses available only under student status.

Our international policy

International experience is to be acquired during the engineering course for all our students.

Individual mobility

Apprentices must complete an individual mobility of at least three months abroad.

International work experience in a company, a research laboratory or an association is strongly encouraged by EICnam. Their main objective is to raise awareness of cultural diversity and to confront apprentices with a different vision of their professional activity.

Professional mobility

If mobility of a professional nature is to be favored, apprentices can also spend a semester or a year of academic exchange in a partner institution of the Cnam abroad.

In some courses, a group stay can also be organized over a period of two to four weeks (university courses, technical and cultural visits), in addition to individual mobility. Apprentices are at the heart of the organization of their stay: from drawing up the program of visits to making contact with partners abroad, they prepare their mobility in great autonomy.

Internationalization of training

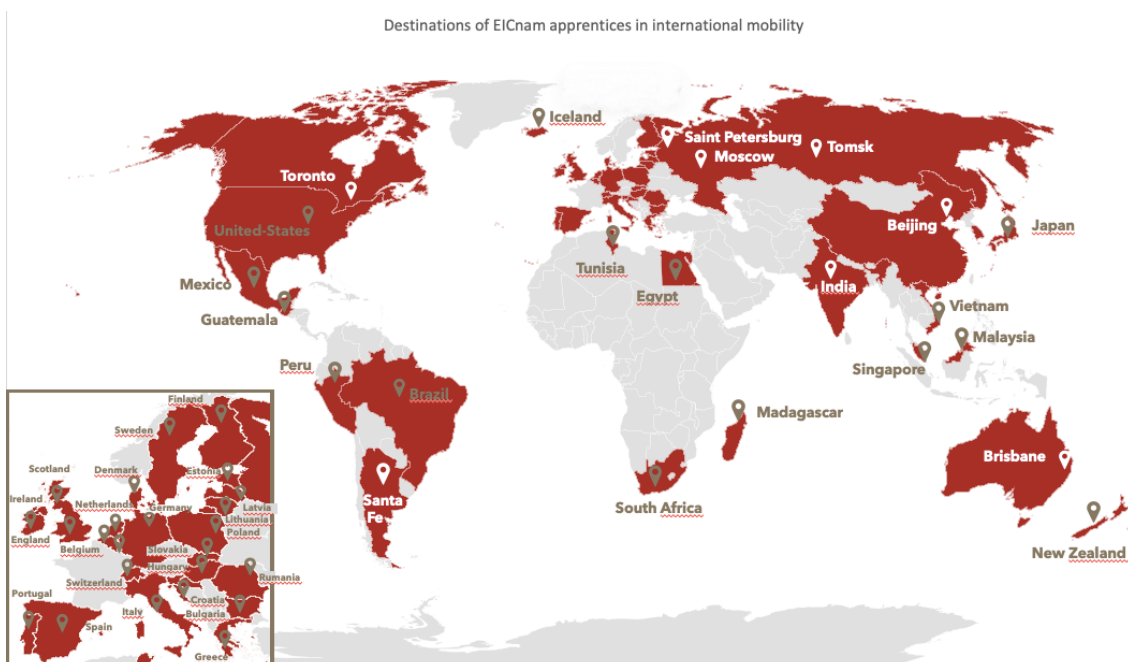
The EICnam is committed to opening its training to the international scene.

For the students in HTT precisely, for whom conciliating professional life, personal life and evening classes can be very challenging, going to a foreign country is even more of a problem. In this context, the international perspective will be provided by the Teaching Units» (TU). Thus, through the TU «International Competence», future HTT engineers who have already had international experience in the past will produce a report on the competences they have acquired abroad.

Finally, in order to graduate, students must obtain at least level B2 of the CEFR (European Framework of Reference for Languages) in English.

The EICnam network extends beyond the French borders: 3 Cnam centers abroad deliver the engineering diploma (in Lebanon, Morocco and Côte d'Ivoire).

- ♦ **Numerous academic and professional partners around the world**
- ♦ **In 2018, more than 100 engineers graduated from Cnam Lebanon in the HTT modality, 25% of them were women.**



Outgoing mobility of Cnam engineering students around the world

cnam



Contact

École d'ingénieur·e·s du Cnam
292, rue Saint Martin
75003 Paris
eicnam@cnam.fr
<http://ecole-ingenieur.cnam.fr>