

An **engineer**
committed to the
ecological transition
and tomorrow's
industry

PROCESS ENGINEERING
ENERGY ENGINEERING



20
engineering
programs



11
joint research
centers



140
partnerships
worldwide

GIVE **ENGINEERING** A **FRENCH TOUCH** !

ENSC
Cognitics



ENSCBP

Chemistry, Biology,
Physics, Food Science,
Materials



ENSEGID



Environment,
Geological resources,
Water resources

**ENSEIRB-
MATMECA**



Electronics, Computer Science,
Telecommunications, Mathematics
& Mechanics

ENSPIMA



Industrial Performance,
Aeronautical Maintenance

ENSTBB



Biotechnology

ENSGTI



Energetics,
Chemical engineering



ENSI Poitiers



Water engineering,
Civil engineering,
Energy



ISA BTP



Civil engineering



La Prépa des INP

Preparatory course of the Groupe INP

partner school,
member of the groupe Bordeaux INP Nouvelle-Aquitaine



bordeaux-inp.fr

*Groupe Bordeaux INP Nouvelle-Aquitaine

**with the university de Bordeaux, Bordeaux Montaigne University, CNRS, INRA & Arts et Métiers ParisTech

Headmaster's Editorial



// **Jean-Michel RENEAUME**
Headmaster of the ENSGTI

Choosing the ENSGTI means choosing a career at the very heart of environmental transition challenges and choosing to play a significant part in the future and essential transformations our society will go through.

The ENSGTI trains engineers-to-be in different fields: energy, sustainable industry (air, water treatment...), process industry (chemical and parachechemical industries, cosmetic and pharmaceutical industries...)

The ENSGTI offers a multidisciplinary training and a teaching which, beyond their scientific and technical aspects, incorporate economic, legal and moral dimensions.

Thanks to practical work, internship, project-based learning and civic commitment, we train our students to become skilled, involved and responsible engineers.

Joining the ENSGTI, you will enter a true international dimension by making the most of rich exchanges within multicultural groups and benefiting from internships or study terms abroad.

Moreover, the ENSGTI relies on a strong network of industrial partners, whether local, national or international. This closeness with the socio-economic world, coupled with trainings adapted to our partners' expectations, ensure a quick professional integration to our graduates (the average time to find a job is less than a month).

The ENSGTI will offer you everything you can expect from a "Grande Ecole", in terms of infrastructures, training and job prospects, along with a magnificent setting: very close to the Atlantic Ocean and the Pyrenees, Pau is a sports and culture-oriented city which will help make your three-year training a unique experience !

A human-sized school

in an exceptional environment

For more than 20 years, the ENSGTI educational team has been training engineers able to face major societal challenges.

The interdisciplinary 3-year engineering program enables each student to develop their own professional project. The "process engineering" and "energy engineering" specialities lead to a wide range of professions, from process control to environmental resource management of an industrial unit as well as new energies.

Close to the Pyrenees, just a stone's throw from the Atlantic Ocean, discover the ENSGTI, a public engineering school and a great place to learn and discover your future job as an engineer.



The training provided by the ENSGTI is accredited by the CTI (Commission des Titres d'Ingénieurs).

NUMBER OF PLACES AVAILABLE

1st year

Concours Commun INP (MP, PC-PH, PSI, TSI, TPC)	47
Concours Pass Ingénieur	6
Classe Prépa intégrée de Bordeaux (CPBx)	5
Classe prépa intégrée Fédération Gay-Lussac (CPI FGL)	9
ATS Fédération Gay Lussac	9
Recrutement sur titre (DUT et Licence 3)	20
La Prépa des INP	3

2nd year

Recrutement sur titre (Master 1)	6
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An interdisciplinary training



Common courses

GENERAL SCIENTIFIC SKILLS

MATHEMATICS, COMPUTER SCIENCE,

TRANSFERS, MECHANICS,

THERMODYNAMICS AND BALANCE

LANGUAGES, SOCIAL SCIENCES

ENGLISH, SPANISH, GERMAN, PROFESSIONAL PROJECT,

PUBLIC RELATIONS, MANAGEMENT, COST ANALYSIS

MARKETING, HUMAN RESOURCE MANAGEMENT

Focus on

Master of Business Administration (MBA)

« Take management courses in addition to your engineering studies »



For further information about the training programme

visit :

ensgti.univ-pau.fr

SPECIALITIES

PROCESS ENGINEERING

SAFETY

UNIT OPERATIONS

MODELING, PROCESS SIMULATION
TREATMENT PROCESS (GAS, WATER, WASTE)

REACTOR ENGINEERING, CHEMISTRY

ENERGY ENGINEERING

INDUSTRIAL COMBUSTION
ENERGY MANAGEMENT AND EFFICIENCY

AIR CONDITIONING AND TREATMENT

RATIONAL USE OF ENERGY
INDUSTRIAL ENGINEERING SIMULATION

3rd-year OPTIONS

PROCESS ENGINEERING

COMPUTER-AIDED PROCESS DESIGN - (CAPD)

ENVIRONMENT PROCESS (EP)

ENERGY ENGINEERING

SMART BUILDING (SB)

INDUSTRIAL ENERGY ENGINEERING (IEE)

Training Schedule

In 3rd year, **50%** of the training is provided by professionals.

1st year

Sept Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug

800 hours-course - COMMON COURSE : 680 h SPECIALITY: 120 h

1 month : «Operator» work placement

2nd year

800 hours-course - COMMON COURSE : 360 h SPECIALITY : 440 h

4 months: Engineer work placement

3rd year

400 hours-course - COMMON COURSE : 100 h SPECIALITY : 300 h

6 months : Specialised engineer work placement



An internationally-oriented School



Get ready to evolve in a
multicultural environment



A real policy of international openness

Located in Pau, the ENSGTI benefits from a privileged geographical position for student cross-border mobility with Spanish universities (Madrid, Barcelona, Cadiz, Saragossa, Tarragona etc.). Each year, the School organises exchange programmes with about twenty European universities within the framework of the Erasmus programme, but also with non-European universities such as Quebec universities (Université de Montréal or Université du Québec in Trois-Rivières), or Australian universities (University of Wollongong).



The ENSGTI is
part of the n+i
and FGL
networks.



Process engineer



Tasks

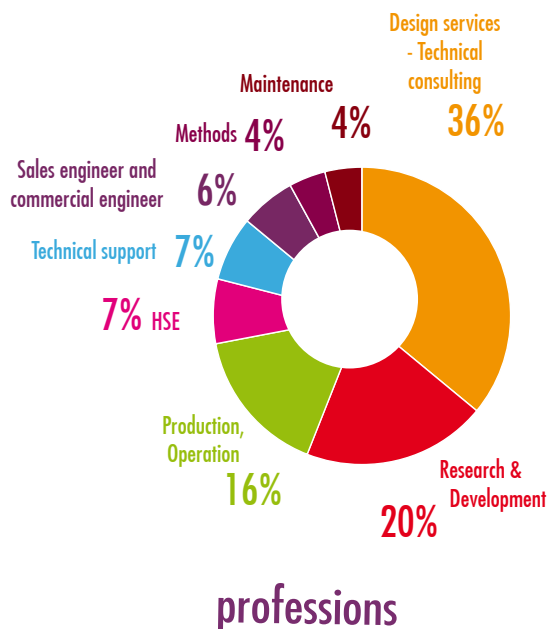
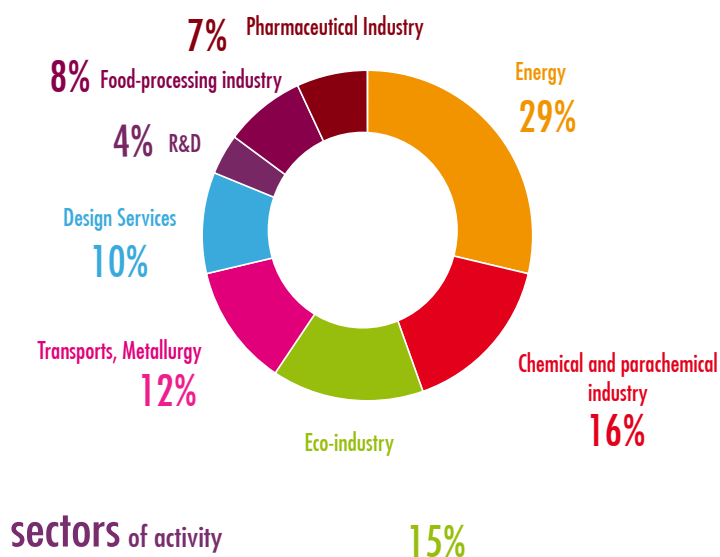
Optimising the functioning of physico-chemical or biological transformations, in compliance with the reliability, safety and environmental protection rules.

Managing the organisational, economic, human, financial and technical aspects in the process engineering main fields of action: chemical industry, oil industry, food-processing industry and so forth.

2 SPECIALISATIONS IN 3RD YEAR

- Computer-aided process design
- Environment process

Professional integration



41 700 €

average starting salary

- 1

average t

Energy engineer



Tasks

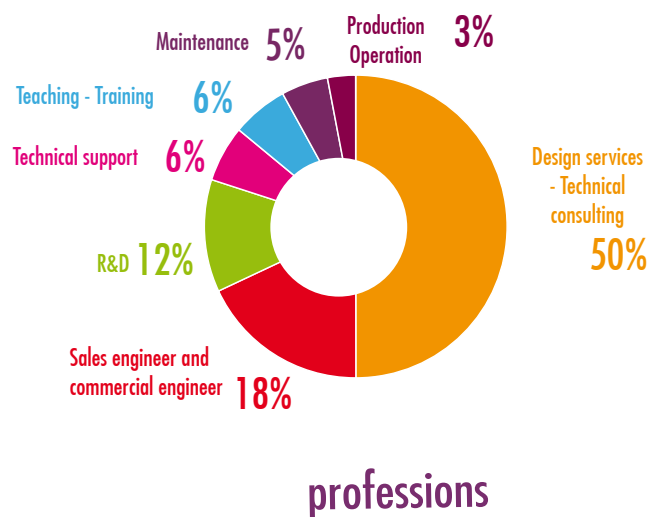
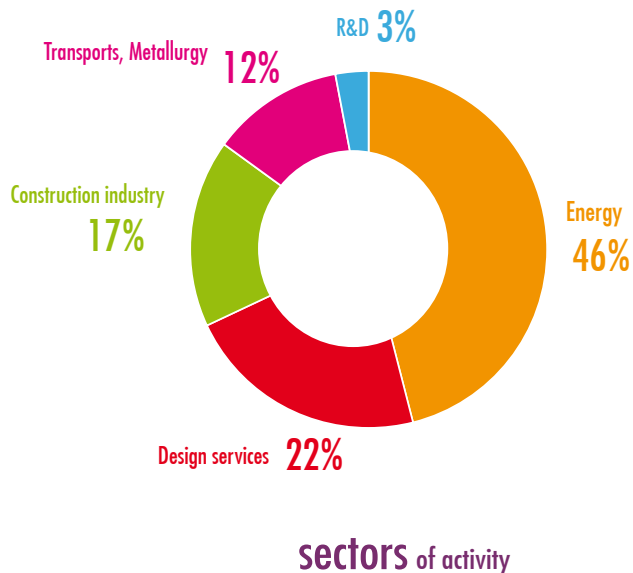
Understanding and knowing the main concepts related to heat transfer and knowing how to use them to formulate and solve a wide variety of thermal problems.

Managing the organisational, economic, human, financial and technical aspects in the main fields of action of energy production and management in the construction sector or in the industry sector.

Professional integration

2 SPECIALISATIONS IN 3RD YEAR

- Smart Building
- Industrial Energy Engineering



month
time to find a 1st job

88%
CDI



Close links with **industry**



The conseil d'École (School board) is made up of one third of industrialists from renowned companies :



Active participation in networks

of grandes écoles

A dynamic
network of
former students



Job advertisements, facilitated
professional integration and
follow-up of new graduates.



A training built upon research

The LaTEP is the laboratory attached to the school. Of course, its scientific fields of research revolve around two of the ENSGTI specialities:

- Energy Engineering
- Process and Environmental Engineering

Key aspects of the LaTEP

- 23 lecturers and researchers, 18 PhD students
- 1.1 million euros in research contracts (TOTAL, BRGM, ALSTOM, ARAMCO, AREVA, FONROCHE...)
- Strong involvement in national and international research programmes : European programme ANR, AMI, ADEME, member of the Isifor Carnot institute, ITE INEF4 and GIS GEODERNEGIES.



KEY FIGURES of the ENSGTI ...



6 000m²
in the service
of education



601€
School fees (+CVEC : 90€)



50
lecturers and researchers
+ staff



60 contract teachers
(mainly industrial participants)



300
engineering students

Our website
ensgti.univ-pau.fr



join us on
social media



A fulfilling student life



The BDE (Student Council)

It welcomes you and brilliantly organises parties, the newcomers' orientation weekends and the 3rd-year students' disintegration weekends. It also coordinates the associations that will enable you to shine.

Dynamic clubs and associations

Humanitarian and volunteer work

- each year, a sports tournament is organised for the benefit of the Telethon
- involvement in the «Parcours jeunes» programme which helps secondary-school pupils from underprivileged background

Sports

The programme includes football and rugby (for male and female!), handball, volleyball, badminton... and a lot more ! The Sports Council and its very active Mountain club will introduce you to other activities such as skiing, hiking, climbing and so on.

Music

If you play a musical instrument (guitar, bass guitar, drums...) come and let your talent shines at the music club!

GT Process

The «Junior Création» of the School enables students to take a first step towards the entrepreneurial mindset.



Nouvelle-Aquitaine

An attractive region

NOUVELLE-AQUITAINE

+ 200 000 STUDENTS
11 COMPETITIVENESS
CLUSTERS

TOP-RANKED RÉGION IN FRANCE
FOR RESEARCH AND DEVELOPMENT

3rd ECONOMIC RÉGION IN FRANCE

5th RÉGION IN FRANCE FOR BUSINESS
CREATION



PAU

TOP-RANKED medium
town IN FRANCE
for quality of life





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COLLÈGE STEE
SCIENCES ET TECHNOLOGIES
POUR L'ÉNERGIE ET L'ENVIRONNEMENT



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