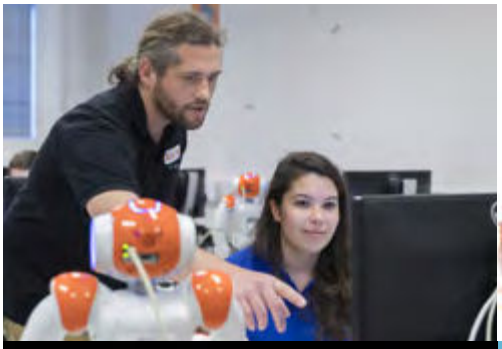
BREST NATIONAL SCHOOL OF ENGINEERING

INTERNATIONAL RELATIONS

REVEALING ENGINEERS SINCE 1961




ELECTRONICS

COMPUTER SCIENCE

MECHATRONICS




FRENCH GRADUATE SCHOOL OF ENGINEERING · RESEARCH INSTITUTE

ENIB AT A GLANCE

A member of the French national Engineering Schools (ENIs), ENIB delivers professional training for generalist engineers in the fields of ICTS (electronics and computer sciences) and mechatronics.

4700
professional engineers trained at ENIB

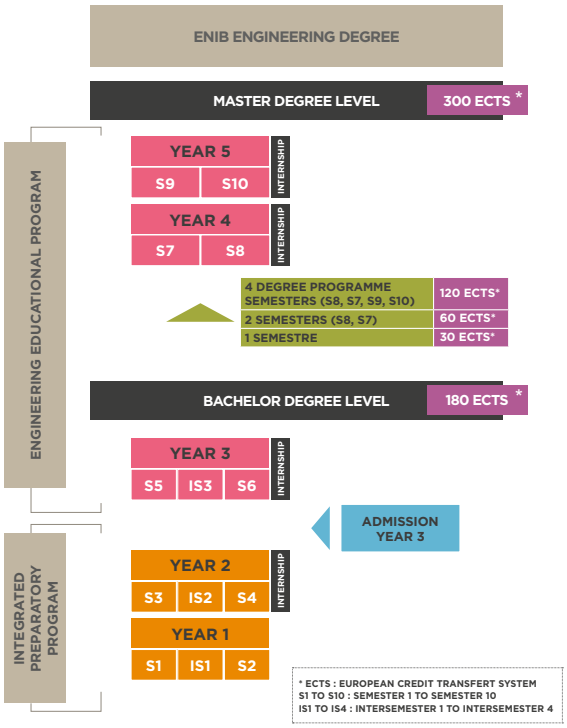
770
students (14% international)

120
staff members

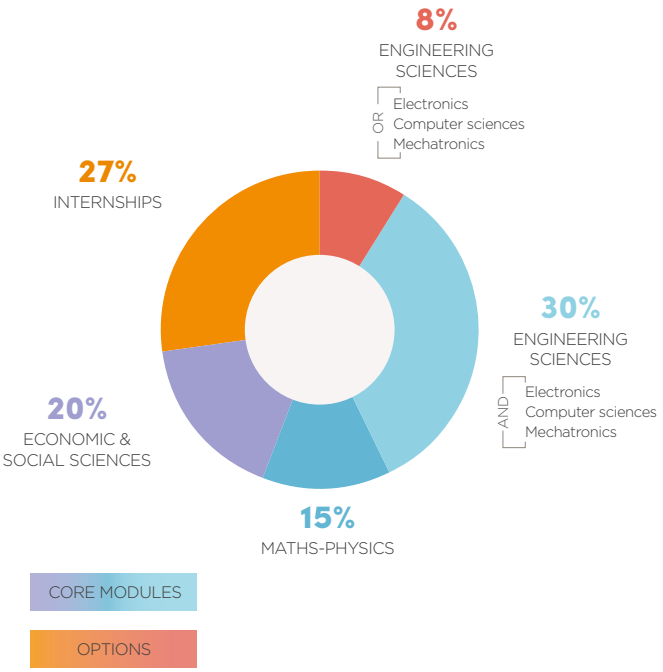
80
lecturer-researchers

16 000 m²
campus with 4 buildings

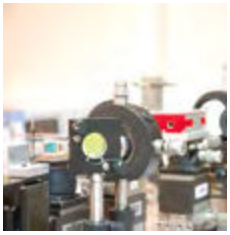
EDUCATIONAL PROGRAM



HOW TEACHING IS ORGANIZED OVER THE 5-YEAR PROGRAM
(10 SEMESTERS)



KEY SUBJECTS OF THE ENGINEERING EDUCATIONAL PROGRAM



- Digital Communications and Optical Transmissions
- System-On-Chip Design
- Radio Frequency Communication Systems
- Signal and Image Processing

- Interactive Application Design
- Artificial Intelligence and Simulation
- Information Systems Development Methodology
- Virtual Reality and Virtual Environments

- Robotics Modelling and Autonomous Robotics
- Control Systems
- Vibration Mechanics and Finite Elements
- Advanced Materials and Design

PROFESSIONAL EXPERIENCE PROGRAM

15 months of internships spread over 5 years, during inter-semester 2 and semesters 7, 8 and 10

- initial internship
- technician internship
- assistant engineer internship
- engineer internship

1300 industrial partners VSBs, SMEs, major groups etc. in France, Europe and worldwide

The final year (semesters S9 and S10) may be carried out as a training contract (a work-study program involving an employment contract with a company)

INTERNATIONAL STUDENTS

(EXAMPLE OF A FLEXIBLE COURSE PATH - DUAL DEGREE)

Admission requirements

- Selection by home university for this program
- B2 level in French

All courses are taught in French / Projects may be supervised in English

TOTAL 120 ECTS		120 ECTS
SEMESTRE 10 : ENGINEERING INTERNSHIP IN A PROFESSIONAL ENVIRONMENT (32 ECTS)		
Industrial work placement (20 à 25 sweeks)	32 ECTS*	
SEMESTRE 9 : ACADEMIC SEMESTER (28 ECTS)		88 ECTS
3 technical modules to choose (out of 15)	18 ECTS*	
Product Design	2 ECTS*	
French as a foreign language	2 ECTS*	
Project (electronics, computer sciences or mechatronics)	6 ECTS*	
SEMESTRE 7 : ACADEMIC SEMESTER (30 ECTS)		60 ECTS
English (compulsory)	2 ECTS*	
3 technical modules	18 ECTS*	
1 technical module to choose (out of 6)	6 ECTS*	
French as a Foreign Language	2 ECTS*	
Management	2 ECTS*	
SEMESTRE 8 : ACADEMIC INTEGRATION (30 ECTS)		30 ECTS
Assistant Engineer-Level project	12 ECTS*	
French as a Foreign Language	2 ECTS*	
2 modules : Object-oriented programming & Microprocessors	4 ECTS*	
Economic and Social Sciences	12 ECTS*	

RESEARCH AS A DRIVING FORCE

2 Research labs (CNRS Mixed Research Units)

Lab-STICC (Laboratory of Science and Technology of Information, Communication and knowledge)

Research themes

- Optical communications , Microwave photonics, and Power over Fiber for sensors
- Signal and image analysis for biology applications
- Artificial Intelligence, Virtual Reality

LABSTICC.FR

IRDL (Mechanics and Systems Laboratory)

Research themes

- Materials and structures durability in different domains specifically in marine applications
- Control and diagnostic in help of marine renewable energy
- Sub-marine robotics

IRDL.FR

CERV (European Center for Virtual Reality)

- Scientific research platform belonging to ENIB
- Virtual reality, Autonomous behaviours, Intelligent environments, Human-machine interface

4 Masters of Sciences

- Computer Science: Interactive Intelligent and Autonomous Systems
- Design Engineering: Mechanics, Materials and Civil Engineering
- Physics: Photonics
- Telecommunications:
  - Signal and Telecommunications
  - Electronics, Wireless communication and Telecommunications

INTERNATIONAL

+70 academic partners

Flexible curriculums (projects, French as a foreign language) are available to international students in semesters S7 to S10

+15 dual-degrees

BREST NATIONAL SCHOOL OF ENGINEERING

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MORE INFORMATIONS
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RÉPUBLIQUE FRANÇAISE
MINISTÈRE DE L'ENSEIGNEMENT SUPÉRIEUR, DE LA RECHERCHE ET DE L'INNOVATION

Cti
Commission des Titres d'Ingénieur

European Accreditation of Engineering Programmes
EUR-ACE®

GROUPE ENI
ÉCOLES NATIONALES D'INGÉNIEURS

cnrs

concours Geipi Polytech

École affiliée IMT

CONFÉRENCE DES GRANDES ÉCOLES

cdefi
Conférence des Directeurs des Écoles Françaises d'Ingénieurs

Établissement d'accueil SHN sport de haut niveau