



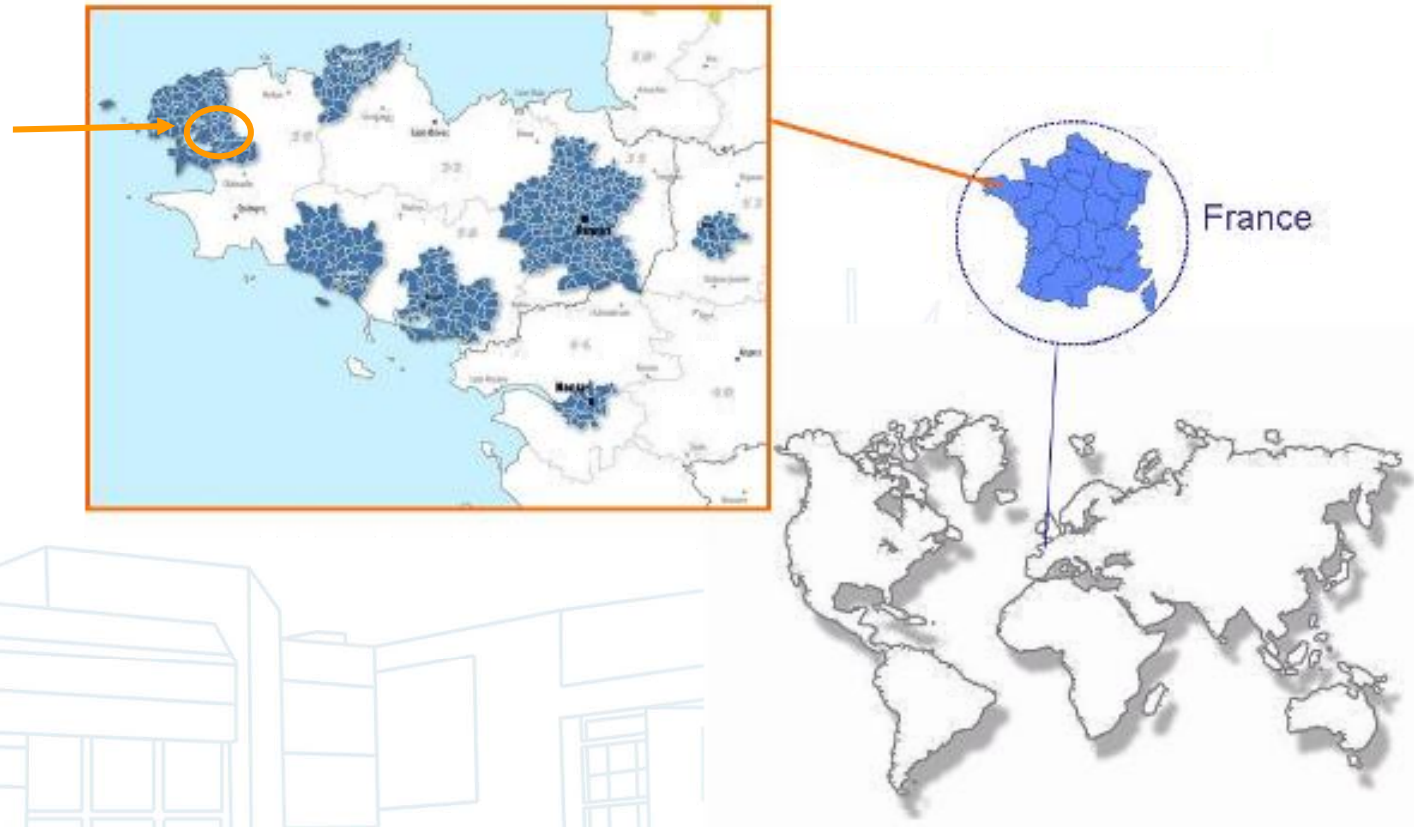
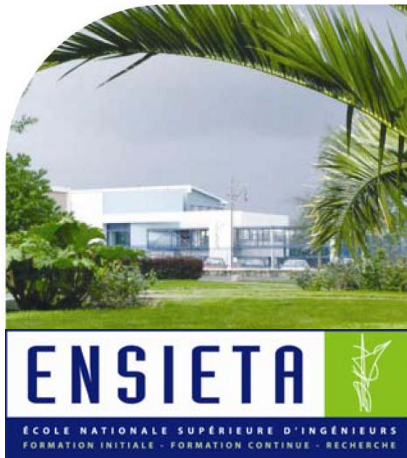
[Presentation of ENSIETA]

Aim High



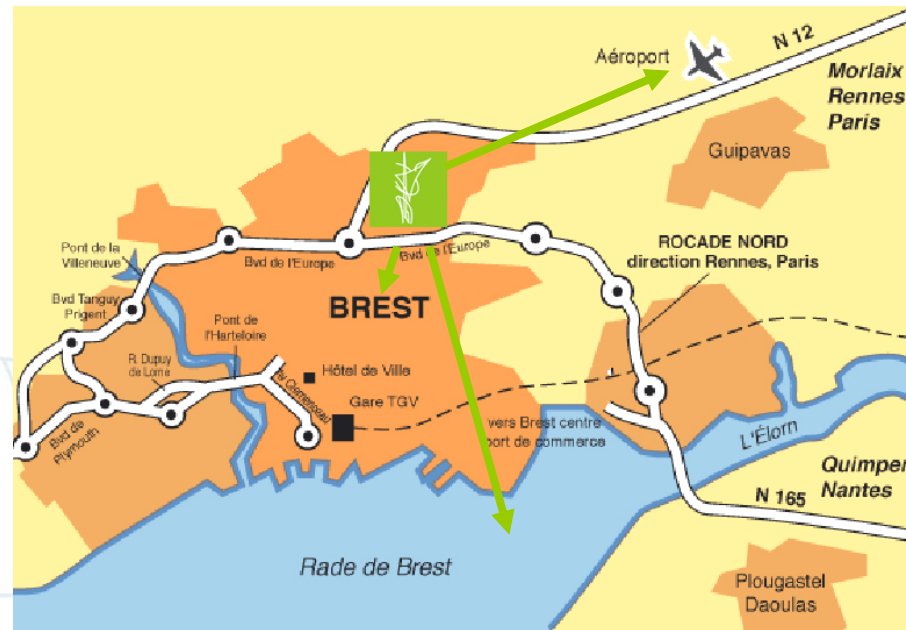
[IDENTITY] - [TRAINING] - [RESEARCH]

At the westernmost tip of the European continent, open to the world



Extensive ultra-modern campus

10 minutes from Brest bay, city center and airport



IDENTITY

State Graduate and Post-Graduate Training and Research Institute

- One of four Institutes under tutelage of the Ministry of Defence
- 20% ENSIETA graduates are military engineers with officer status, 80 % are civilian engineer
- Three-year engineering education and training (Master degree)
- PH D program
- R&D Activities
- Specializing in: Naval Architecture, Hydrography, Automotive Engineering, Energetic Materials, Electronics, Cybernetics and associated domains.



ISO 9001

BUREAU VERITAS
Certification



ENSIETA : Threefold profile



**53 PhD Students
650 students**

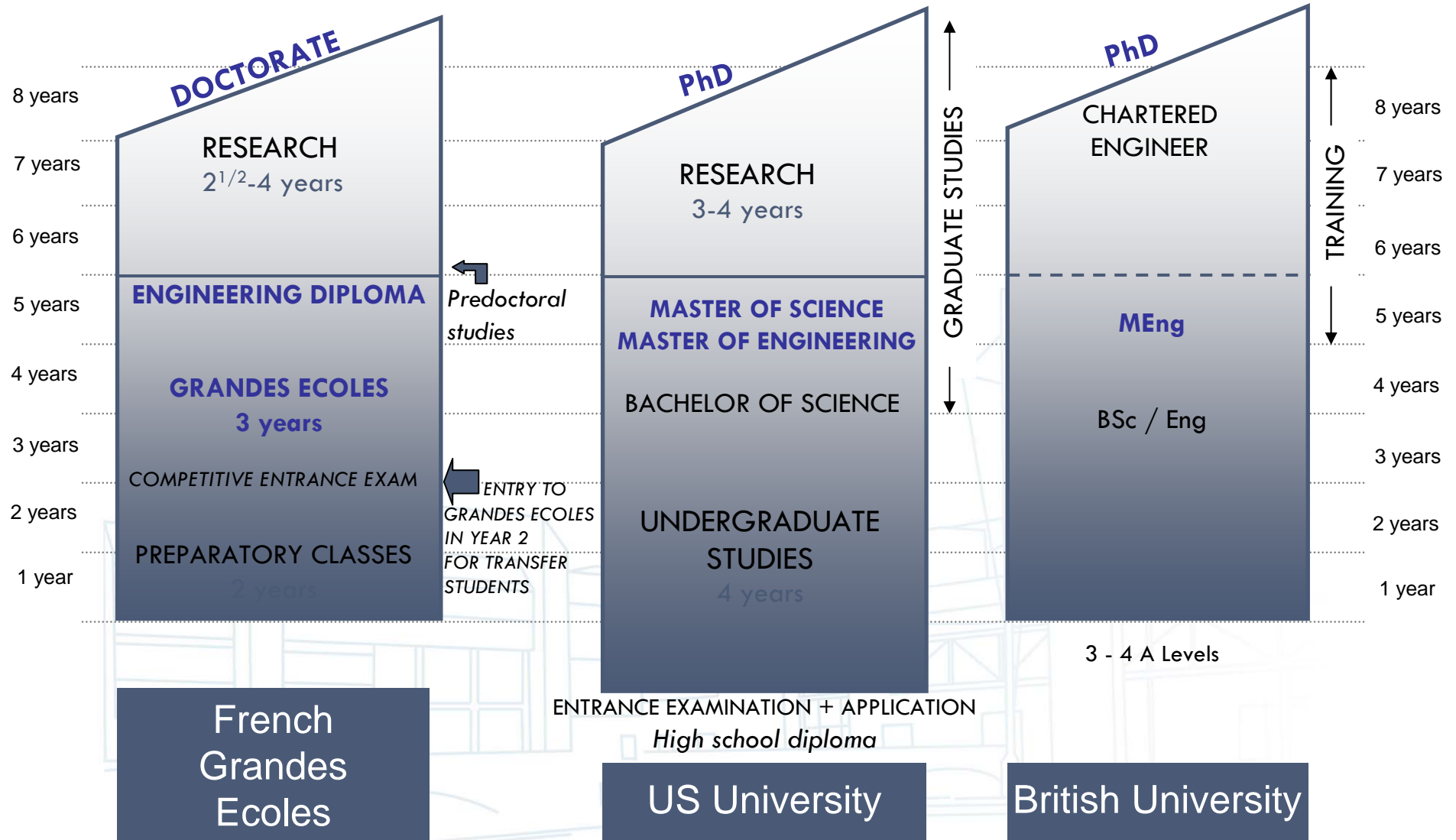
**ENGINEERING
TRAINING AND
STUDIES
BAC+5**

RESEARCH

**CONTINUING
EDUCATION**

3,200 actively employed graduate engineers

Engineering education Guidelines for corresponding levels abroad



Higher Education Cooperation Network

- **Competitive clusters combining industries, education centers and research laboratories**



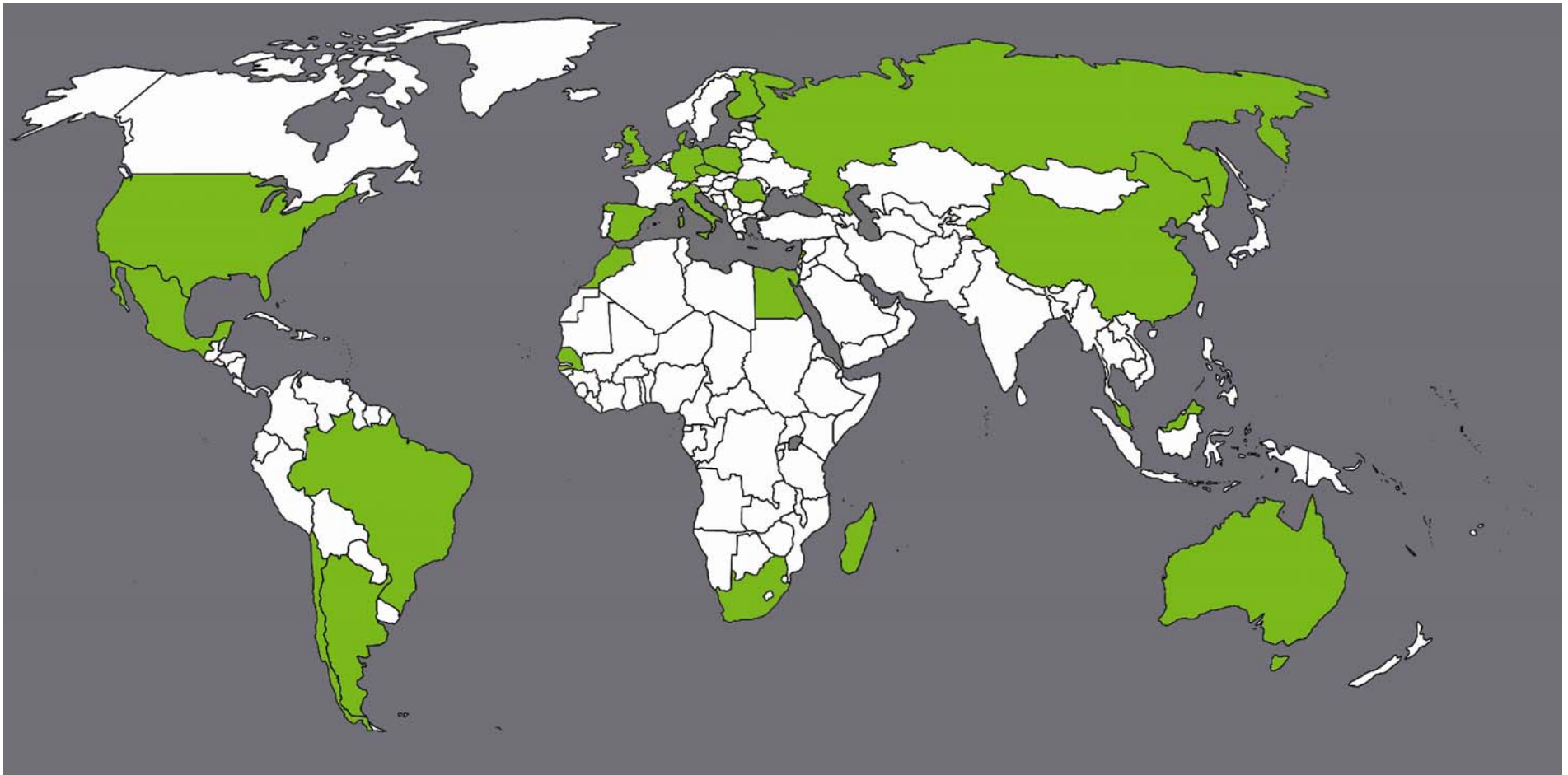
ENSIETA: Catering for Industry

Long established relations:
patronage, final year projects,
research projects, recruitment and more



International Perspective

43 agreements with partners in 26 countries



Extensive ultra-modern campus

Optimal study and research facilities



- Multimedia Library
- Research center
- Excellent sports facilities
- Student residence



[TRAINING & EDUCATION]



[IDENTITY] - [TRAINING] - [RESEARCH]

Prominent Engineering Institute



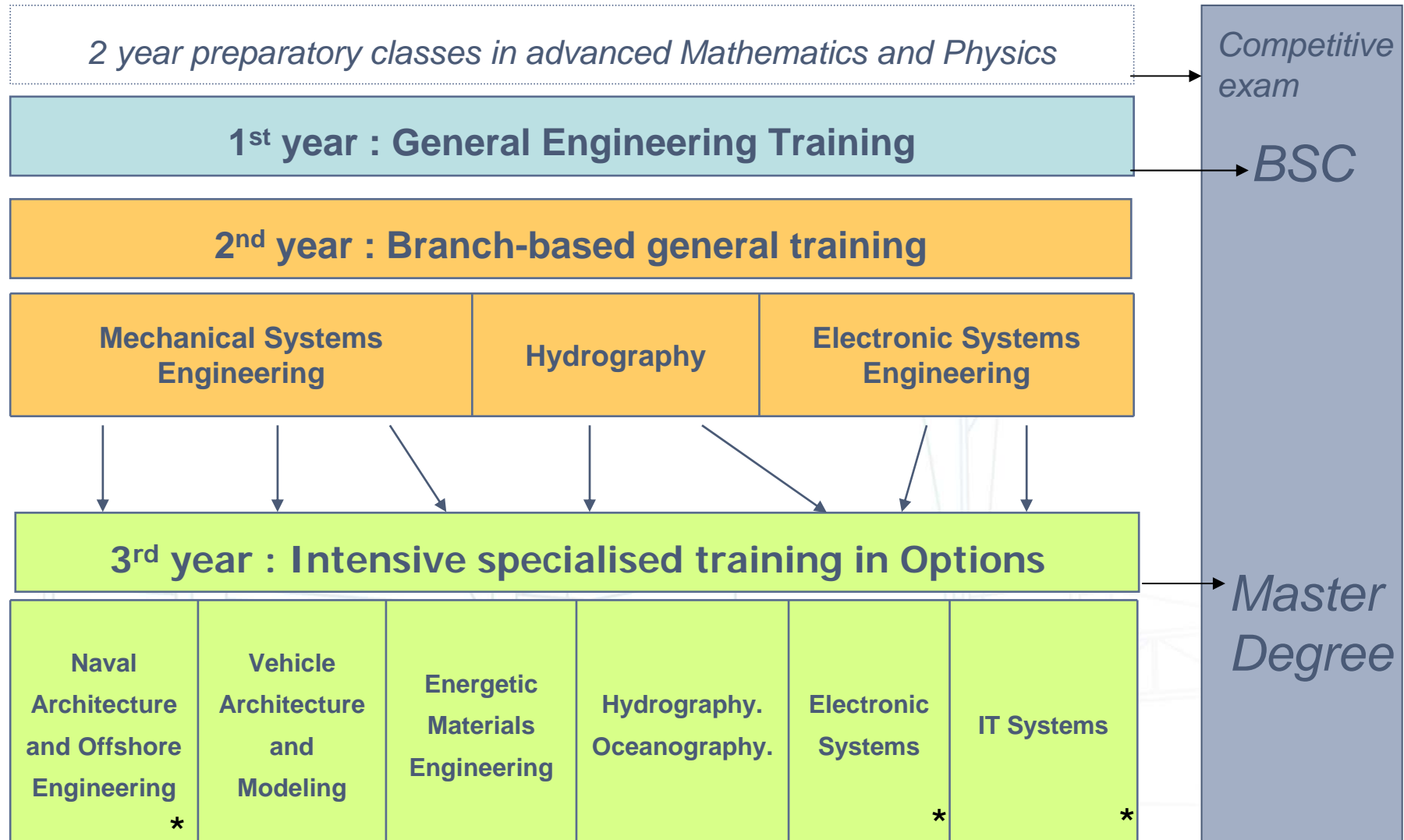
- Outstanding employability
- Proven expertise in the fields of offshore, naval, automotive, aeronautic, airspace and defence industries.
- Comprehensive far-reaching training to BAC+5 and BAC+6 complete with continuing education programmes.

Prominent Engineering Institute

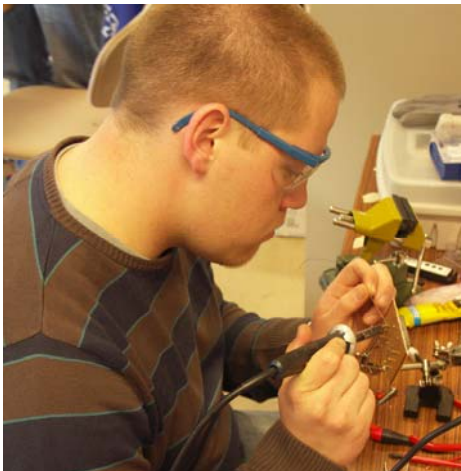


- High quality education and training from eminent research lecturers actively engaged in national and international research projects
- Healthy campus life providing student with every opportunity to develop their full potential
- Progressively specialising cursus from the general to expertise

Engineering Training : Progressive Specialisation



ENSIETA: A Hallmark of Quality



- Internationally recognised qualifications and training (Bologna process LMD)
- Specific Needs Training
 - **Specialised Master (BAC+6)**
 - Energetic materials and Propulsion
 - Architecture of Electronic and Computerised Systems
 - Marine Engineering / Naval Architecture and Offshore Engineering
 - **Professional Master** in Automotive Engineering in Partnership with the Technical University of Prague, Czech Republic, and the University of Arnhem, the Netherlands
 - **Specific Engineering Programme** within the framework of Franco-Saudi agreement
 - **Continuing Education Programmes**

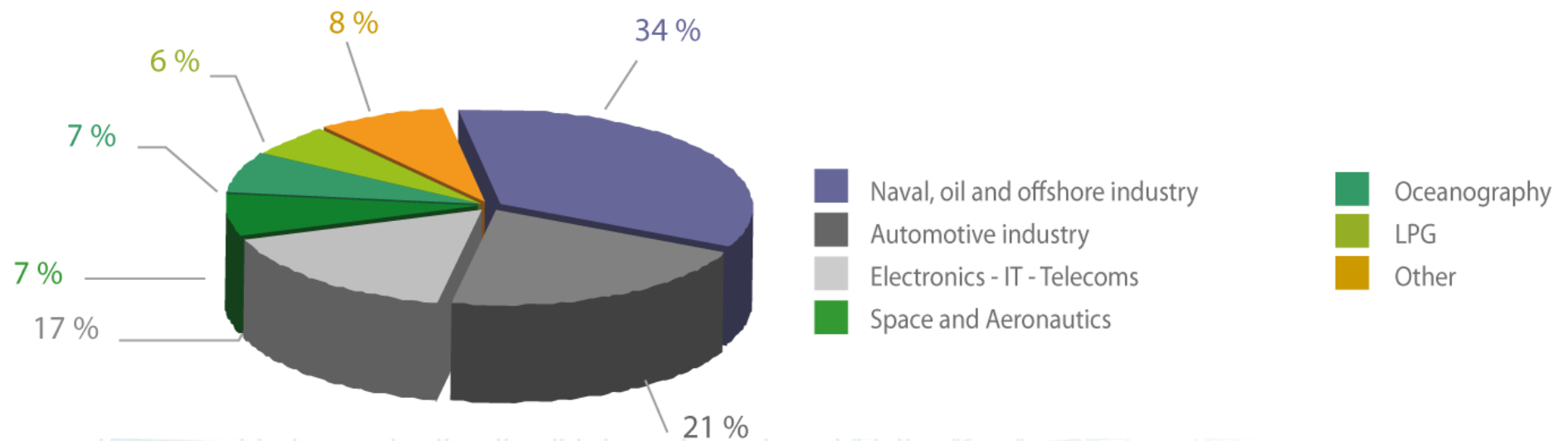
Graduate and Post Graduate Employment Rate



ENSIETA
Average for French Grandes Ecoles

Activity Sectors: Engineer Graduates

>>> ACTIVITY SECTORS: ENGINEER GRADUATES



Promotion 2008

[RESEARCH]



[IDENTITY] - [TRAINING] - [RESEARCH]

ENSIETA and Research

- **Dual purpose in research activities:**
 - ▶ Advancement and enhancement of knowledge in educational expertise
 - ▶ Transmission of cutting-edge scientific training to engineering students while instilling intellectual curiosity, a spirit of initiative and creativity
- ▶ **ENSIETA's research component is organized into 4 laboratories: LBMS, E³I², DTN, SHI**



Mechanics and Systems Laboratory Brest (Label EA 4325)

- Analysis of the life span of naval structures.
- General expertise both in the field of material, fluid and structural mechanics and in the field of electromechanical systems control and diagnosis.
- Theoretical modeling, experimental aspects and numerical simulation (finite elements, finite volumes and boundary elements).



RESEARCH THEMES

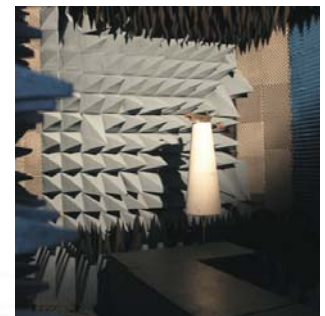
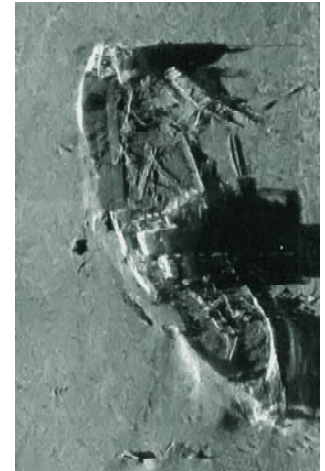
Material and assembly mechanics
Fluid, material and structure dynamics
Control and Diagnosis of
Electromechanical systems

FIELDS OF APPLICATION

Naval architecture and offshore engineering
Applications in general mechanical engineering
and the automotive field

Extraction and Exploitation of Information in Uncertain Environments (EA 3876)

- Research activity mainly falls within the field of ICST (Information and Communication Science and Technology) and SPI (Sciences for engineers).
- Multidisciplinary research project to develop and set up an information and aid system for decision-making in disturbed and changing environments.



RESEARCH THEMES

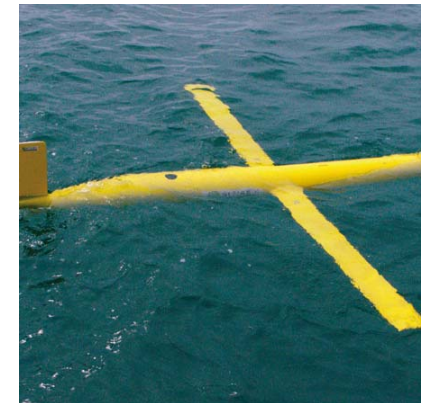
Modeling and characterization of the environment
Data representation and mining
Data fusion and decision making aid

FIELDS OF APPLICATION

Underwater acoustics
Radar and electronic warfare
GALILEO/GPS/GLONASS

Development of New Technologies

- The promotion of a structured approach to ENSIETA's industry-related activities and fostering of innovation and technology transfers towards industry.
- The projects developed are either academic in nature, being part of the student's engineering curriculum, or multidisciplinary R&D projects conducted under contract with industrial partners.



RESEARCH THEMES

Model-driven software engineering for embedded systems

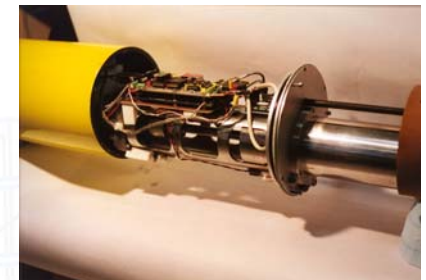
Software radio

Analysis and control of non-linear systems

Thermodynamics, adsorption, fluid mechanics

Mechanical Systems Engineering

Hydrographic and oceanographic observation systems



Human Sciences for Engineers

- Laboratory created in 2002
- Furtherance and nurturing of humanities and social sciences.
- Focus on management and engineering professions, social, ethical and scientific challenges encountered.



MAIN RESEARCH THEMES

Training and professionalization of engineers and executives

- Curricula in the prestigious French Grandes Ecoles engineering institutes
 - Building the professional identity of engineers and managers
 - Managing social-technical problems in engineering activities

