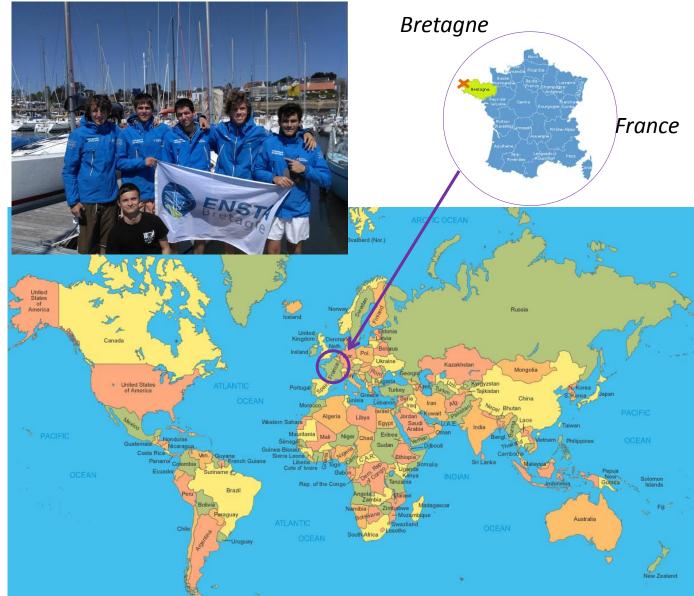




Graduate and Post-graduate Engineering School and Research Institute



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









Pierrick Contin



IDENTITY

A French Grande Ecole & an Applied Research Center

ENSTA Bretagne is a major player in the MARITIME SECTOR, in DEFENSE, and in HIGH TECH INDUSTRIES.





One of four Institutes under tutelage of the Ministry of the Armed Forces

with Ecole Polytechnique, ISAE-SUPAERO and ENSTA ParisTech

- 18% ENSTA Bretagne graduates are military engineers with officer status
- 82 % are civilian engineers





A Focus on Strategic Technologies

The excellence of ENSTA Bretagne is fueled by strong relations with industries in the most innovative domains:



MARINE ENERGIES



IT



NAVAL INDUSTRY



AERONAUTICS & SPACE



HYDROGRAPHY



AUTOMOTIVE



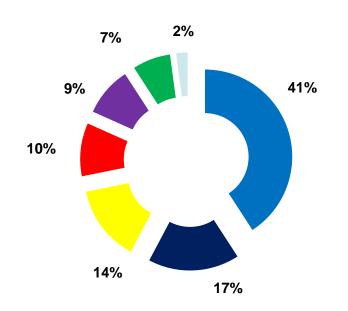
DEFENSE & SECURITY



RESEARCH & TRAINING



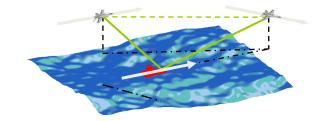
A Focus on Strategic Industrial Domains



- NAVAL & OFFSHORE INDUSTRY (oil & gaz & RME)
- ELECTRONICS IT TELECOMS
- SPACE AND AERONAUTICS
- ENERGY
- AUTOMOTIVE INDUSTRY
- TRAINING & RESEARCH
- OTHER

About 20% graduates get a first contract abroad.

About 40% graduates work in the Defense sector (State and industrial)









Several Available Profiles

ENGINEERING
TRAINING AND STUDIES
867 MSc students

RESEARCH 102 PhD students 969
students
20%
of the
students are
international

& LIFELONG LEARNING

5,000 Alumni





RENOWNED FOR ITS SPECIALIZED COURSES

MARITIME ENGINEERING:

Naval Architecture & Offshore ressources
Renewable Marine Energies
Oceanography & Hydrography (cat. A)

IT:

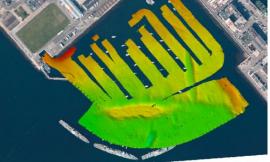
Underwater Robotics (i.e. autonomous vehicles) & Robotics
Software & Cyber-security
Embedded Systems & Al
Signal Processing (radar, sonar), Telecommunication

MECHANICS:

Pyrotechnics & PropulsionAutomotive Engineering & Modeling

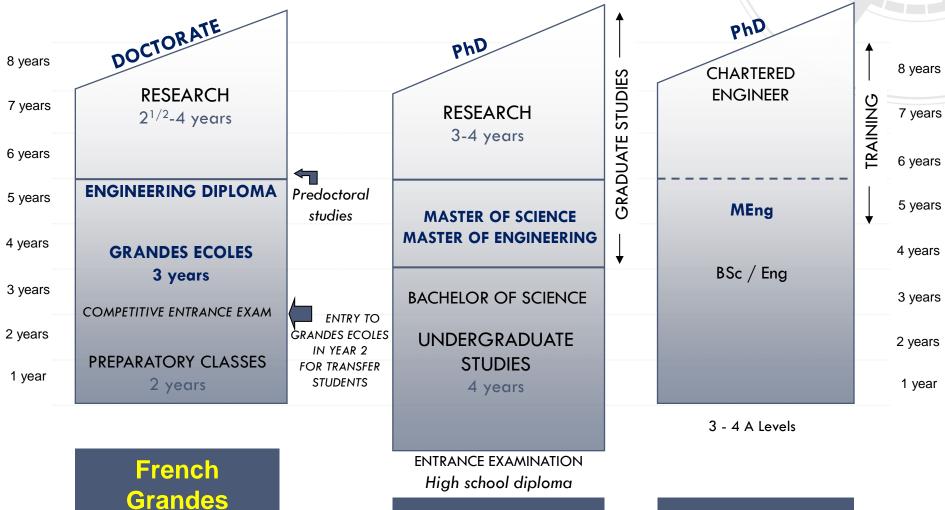
MANAGEMENT of ENGINEERING PROJECTS







Engineering education Guidelines for corresponding levels abroad



US University

Ecoles



PROGRAMS

Engineering Program (Master degree)

3 years after preparatory classes or 2 years after a BSc degree or equivalent

Master of Engineering

2 years after a BSc degree or equivalent

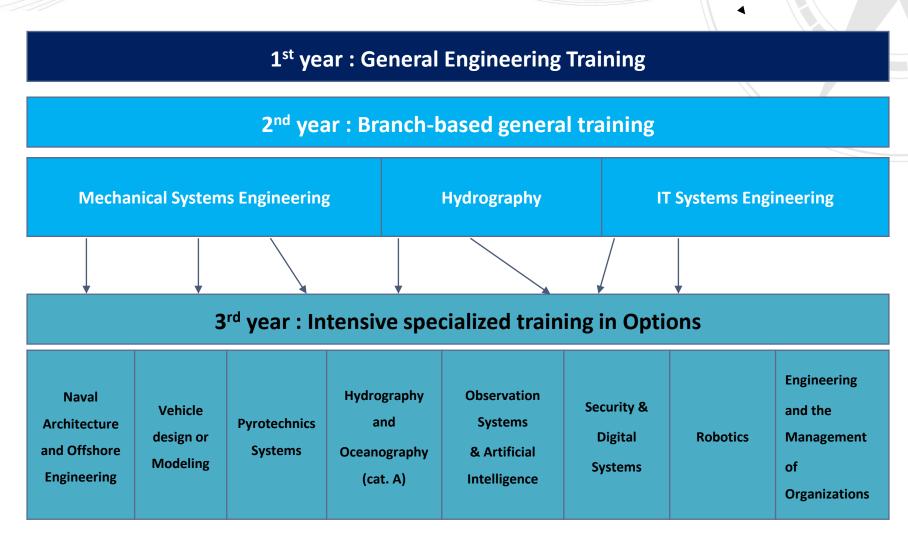
Advanced Masters

1 year after a MSc degree or a BSc + professional experience

PhD program



Engineering Program: Progressive Specialization







Advanced Masters

Renewable Marine Energies Expert

To train project or program managers dedicated to the development of energy production systems and farms at sea.

http://www.ensta-bretagne.eu/index.php/advanced-master-in-renewable-marine-energies/

Marine Engineering, Naval Architecture and Offshore Engineering

To train naval architects able to innovate and design ships and offshore platforms of all types, wich are more advanced and respectful of the environment.

http://www.ensta-bretagne.eu/index.php/advanced-master-in-naval-architecture-and-offshore-engineering/

Management of Maritime projects

To train « project managers » able to pilot, coordinate and evaluate maritime projects of international caliber.

http://www.ensta-bretagne.eu/index.php/advanced-master-management-of-maritime-projects/

Pyrotechnics/Propulsion

The aim of this course is knowledge of combustion, deflagration and detonation phenomena. http://www.ensta-bretagne.eu/index.php/advanced-master-in-energetic-material-and-propulsion/

Sensors, Geolocation and Navigation

To train engineers in the design, commissioning and maintenance of technological systems used in the fields of radar, electronic warfare (radar/communication), optronic warfare (countermeasures, decoys), inertial navigation systems, geolocation, complex navigation systems, sensor guidance and use systems, information fusion and choice of sensors.

http://www.ensta-bretagne.eu/index.php/advanced-master-in-sensors-geolocation-and-navigation/



3 Laboratories

IT Department

- Treatments Observation and Statistical Methods
- Perception, Robotics, Autonomous Systems
- Interaction of electromagnetic waves with the environment
- Hardware/Software Design Methodologies and Tools
- Communication

Lab-STICC Laboratory: www.labsticc.fr

Mechanics and Systems Department

- Composites
- Assemblies
- Interaction, Fluid & Structures
- Durability

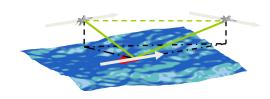
IRDL Laboratory: http://irdl.fr/

Human and Social Sciences

Training and professionalization for the Engineer

FAP Laboratory: http://crf.cnam.fr/











88 Partners in 32 **Countries** in Master of Science and PhD Technische Universität Politecnico di Milano Illinois Institute of Technology (IIT) eorgia Institute of Techno logy (Georgia Tech). Ocean University of China Indian Institute of Technology Madras do Rio de Janeiro Universidade Federal do Rio Grande do Sul..

