



IMT Atlantique
Bretagne-Pays de la Loire
École Mines-Télécom

A NEW GENERATION OF ENGINEERS

DIGITAL TECHNOLOGY, ENERGY
AND ENVIRONMENT

FRANCE



OUR AMBITION:

**TO COMBINE DIGITAL TECHNOLOGY
AND ENERGY TO TRANSFORM
SOCIETY AND INDUSTRY
through education, research and innovation**

The digital revolution is bringing about a profound transformation of society and industry while French higher education seeks to assert its international presence. As a backdrop to these changes, energy and environmental issues are taking on major societal importance.

We are at the crossroads of two stories, of two Elite Graduate Engineering Schools created about fifteen years apart. They have evolved to meet their objectives and contribute to the economic development of France and its international influence through education, research and innovation.

We have chosen to join forces by creating a new Graduate Engineering School combining digital technology, energy and the environment, able to contribute to the evolution of industry and society by training senior managers (engineers, MSc. and PhD graduates) who will be immediately operational in today's changing environment.

IDENTITY

A new school under the aegis of the Ministry of industry and the digital sector

A leading member of the "Institut Mines-Télécom".

An Elite Graduate School specialized in digital technology, energy and environment (A "Grande Ecole" in French)

On January 1st, 2017, "Mines Nantes" and "Télécom Bretagne", both Elite Graduate Engineering School merged. The new Graduate School named IMT Atlantique will take place as one of the top 10 Graduate Engineering Schools in France. This is a Graduate Engineering School with significant research potential, reflecting the diversity of the world around us thanks to the strength we draw from our multiple campuses. IMT Atlantique, highly respected by its surrounding regions for its contribution to their economic and industrial development is conscious of its environmental and societal responsibility.

IMT Atlantique trains managers who can understand and master the complexity of the highly interconnected systems of the future.

6 STRATEGIC ORIENTATIONS FOR IMT ATLANTIQUE

Create an interactive, flexible, innovative, creative school.

Train senior managers recognized for:

- their scientific and technical skills
- their systemic understanding of societal issues
- their entrepreneurship and ability to take a step back to see the wider picture
- their aptitude for collaborative working both within a network and remotely
- their scientific know-how and their intercultural skills
- their sense of responsibility.

Conduct ambitious research that responds to the challenges of society, and fosters responsible economic development.

Propose a global offer of partnership to companies in our fields of expertise.

Become **the French institution of Higher Education internationally** recognized as the reference for engineering studies and research.

Show exemplary and sustained commitment to the development of our regions.

IMT ATLANTIQUE FACTS AND FIGURES



OUR MISSION

TO CONTRIBUTE TO ECONOMIC DEVELOPMENT THROUGH EDUCATION, RESEARCH AND INNOVATION

3 CAMPUSES

Brest - Nantes - Rennes



+ 1 centre in Toulouse
and 4 international centres

2,300
students



including 1,400 engineering students
and 300 doctoral students



730

graduates / year

from MSc to PhD

780
staff



Including 500 permanent staff



290

permanent
researchers

and research lecturers

on our campuses, including 110 HDRs
(Researchers with supervisory
accreditation)

800



publications / year

Including 450 of "rank A"

€70_M budget

Including € 27 million of our
resources, € 18 million of which
from research contracts



FOCUS

EDUCATION

A new and unique broad-based **engineering course**, organized on several campuses. Trains engineers in the convergence of **digital technology, energy and environment**. The course is tailored to be relevant for both the students' future career paths and the needs of industry. **Our Programs:** MSc in Engineering, MSc, International MSc, Post Master Professional certificates, Engineering apprenticeships/vocational, PhDs. Major emphasis on **pedagogical innovation**.

RESEARCH

The research potential ranks IMT Atlantique among **the top 10 in France**. **Research topics in the field of energy and digital technology:** Subatomic physics and nuclear chemistry - Energy and environment processes - Robotics and automatic control - Simulation, modeling, optimization, coding, decision - Design of electronic, microwave and optical functions - Implementation of fast algorithms for complex functions - Signal and Image processing, Big Data processing - Computer Science, Software Engineering, Cyber Security and Artificial Intelligence - Networked Systems (communication, energy, waste, water, air) - Humanities. A significant contribution to the research development with **6 mixed research units** (5 CNRS and 1 Inserm). Funding of **3 ERC** projects in recognition of the quality of its research (European Research Council grants), **2 academic chairs** and numerous scientific awards.

DEVELOPMENT AND INDUSTRIAL RELATIONS

A global offer of **business partnerships**
8 industrial chairs
1 incubator on 3 sites (45 companies hosted, 15 new start-ups per year)
An active contribution to **regional economic development**

INTERNATIONAL

51 **double degree agreements**
More than **70 nationalities on our campuses**
Master's courses taught in French and English
2 Erasmus Mundus programs, member of the European KIC EIT
Digital network, project partners of KIC InnoEnergy
4 programs offered abroad (China, Ivory Coast, Morocco, Vietnam)



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