



**Master of Science - MSc PBPE**

# Process and BioProcess Engineering

**Track in Project Management for Environmental and Energy Engineering - PM3E**

▲ The program aims at providing skills for the management of multi-sector projects with a multiscale and systemic analysis of eco-technologies issues, such as water-energy nexus, waste-energy nexus, climate change adaptation to propose sustainable solutions and to build green cities.

## CURRICULUM

### M1 - YEAR 1

Nantes campus

- > Transfer phenomena
- > Energy and environmental issues
- > Environment and process engineering
- > Incineration and waste minimization
- > Air and soil remediation
- > Water treatment processes
- > Water strategies and innovation
- > Process modeling, simulation and control
- > Risk analysis and environment management
- > Project, company visits, seminars
- > French language & culture

### M2 - YEAR 2

Nantes campus

- > Thermodynamics for energy systems
- > Renewables
- > Energy systems
- > Energy efficiency and services
- > Energy networks
- > Energy modeling and optimization
- > Management
- > Professional coaching
- > Master thesis / internship
- > French language & culture

*Courses are subject to change without notice*

*Accreditation from the Ministry of Higher Education, Research and Innovation No. 20170876*

**100 % taught in English**

**6-month paid internship in a company or lab**

**Free application!**



**IMT Atlantique**

Bretagne-Pays de la Loire  
École Mines-Télécom



#ProcessEngineering  
#BiomassResources  
#Renewables  
#EnergySystems  
#Efficiency #Management  
#EnvironmentalResource



## ALUMNI TESTIMONY

Godfred Oteng BRAKATU (Ghana)

*"The uniqueness of the MSc is that it gives one equal measure of knowledge and capacity development in its three main areas of focus: Project Management, Environmental Engineering and Energy Engineering."*

## RESEARCH EXPOSURE

The MSc is managed by the IMT Atlantique Research department in Energy and Environmental Systems. This internationally renowned laboratory has strong links with CNRS.

## STUDY TRACKS

The MSc is co-accredited with ONIRIS and Nantes University and also offers study tracks in Food Processing and in Microalgae.

## CAREER OPPORTUNITIES

In energy production & exploitation: oil and gas, power generation and distribution, renewable energy, eco-industries: water and air treatment, waste management and recycling, pollution reduction and remediation, steel and chemical production, building and civil sector, etc. The main employers are major groups operating worldwide and in France. Possibility to continue in PhD.



## IMT ATLANTIQUE

IMT Atlantique is a "Grande Ecole" ranked among the best French Graduate Engineering Schools, and recognized internationally as a leading Technological University (Shanghai, QS and THE rankings).

It is a member of IMT, the largest group of public Engineering and Management Graduate Schools in France.

## TUITION FEES AND SCHOLARSHIPS

12,000 Euros / year

Scholarships opportunities for:

Excellent profiles, alumni from our partner universities, European citizens, etc.

Find out more:

[www.imt-atlantique.fr/pbpe](http://www.imt-atlantique.fr/pbpe)

Contact us:

[pbpe-apply@imt-atlantique.fr](mailto:pbpe-apply@imt-atlantique.fr)

Apply:

<https://pbpe.imt-atlantique.fr>



MINISTÈRE  
DE L'ENSEIGNEMENT SUPÉRIEUR,  
DE LA RECHERCHE  
ET DE L'INNOVATION