PROCESS & BIOPROCESS ENGINEERING

International Master of Science (MSc)

Track PM3E
Project Management for Environmental and Energy Engineering

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 and smart cities and industry.

ACADEMIC DETAILS

2-year full time program
> September intake – 4 semesters

Comprehensive curriculum
> Projects, company visits, seminars
> Professional coaching
> French language & culture
> Intercultural workshop
> Master thesis/internship (last semester)

Internationally recognized degree
> MSc in Process and Bioprocess Engineering (PBPE) accredited by the Ministry of Higher Education and Research No. 20170876 – 1702350F

Associated tracks / programs
> PM3F - Food processing (ONIRIS)
> MBE - Microalgae (Université de Nantes)
> ME3+ - Erasmus Mundus label

M1 - YEAR 1 on Nantes campus
> Transfer phenomena
> Energy and environmental issues
> Thermodynamics for energy systems
> Environment and process engineering
> Incineration and waste minimization
> Air and soil remediation
> Water treatment processes
> Water strategies and innovation
> Process modeling, simulation and control
> Foundations in economics & management
> Environmental management

M2 - YEAR 2 on Nantes campus
> Renewable
> Energy efficiency and services
> Energy networks
> Energy modeling and optimization
> Energy and data
> Digitalization and energy for smart cities
> Digitalization and energy for smart industry
> Energy and environmental economics

Courses are subject to change without notice

100 % taught in English

6-month paid internship in a company or lab

PhD opportunities

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

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

THE WORD OF OUR EXPERT

« In a world facing pressing, energy and environmental challenges, PM3E pioneers a holistic approach by integrating Energy and Environmental Engineering and data science. It embarks you in a transformative journey allowing to tackle complex, cross-disciplinary challenges spanning multiple sectors and scales ».

Sary AWAD
Professor in Process and Energy Engineering

CAREER OPPORTUNITIES

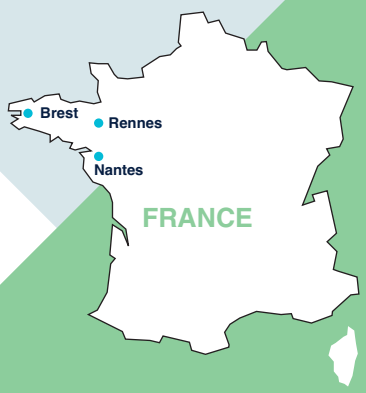
In energy production & exploitation: oil and gas, power generation and distribution, renewable energy, eco-industries: water and air treatment, waste management and recycling, pollution reduction and remediation, steel and chemical production, building and civil sector, project management, smart cities & industry 4.0, etc. The main employers are major groups, operating worldwide and in France. Possibility to continue in PhD.

RESEARCH EXPOSURE

The MSc is managed by the IMT Atlantique Research department in Energy and Environmental Systems. This internationally renowned department is part of the GEPEA CNRS-Mixed Research Unit.

TUITION FEES AND SCHOLARSHIPS

12,000 Euros / year
Scholarships opportunities for: Excellent profiles, Alumni from our partner universities, European citizens, etc.



> "*Bienvenue en France*" label guarantees the quality of the experience for international students.

IMT ATLANTIQUE

is one of the top 5 institutions in engineering in France.
As a leading Technological University, its education, research and innovation activities are recognized internationally :
Top 500 in the THE World University Ranking,
Top 200 in QS ranking for « Engineernig & Technology ».

> On-campus accommodation, restaurants, sports facilities
> Orientation Days & French Summer School
> A variety of student clubs

Find out more:
www.imt-atlantique.fr/pbpe

Contact us:
pbpe-apply@imt-atlantique.fr

Apply:
https://www.imt-atlantique.fr/apply

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