

NUCLEAR ENGINEERING

International Master of Science (MSc)

Track ANWM Advanced Nuclear Waste Management

This program develops fundamental scientific, technical and industrial knowledge in the field of nuclear engineering. It has a particular focus on the backend of the nuclear fuel cycle, nuclear waste management, long-term safety and environmental impact assessment. It also provides strong insights on dismantlement and decommissioning of nuclear installations.

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 Nuclear Engineering (NE) accredited by the Ministry of Higher Education and Research. No. 20170877

Associated tracks / programs

- > NEPIA – Nuclear Energy Production & Industrial Applications
- > NMA - Nuclear Medical Applications
- > SARENA - Erasmus Mundus label 

M1 - YEAR 1 on Nantes campus

- > Physics of ionizing radiations
- > Detection of ionizing radiations
- > Introduction to nuclear modeling
- > Introduction to neutron physics
- > Radioprotection
- > Physico-chemistry of environment
- > Introduction to nuclear technology
- > Detection and industrial applications
- > Measurement and data analysis
- > Energy mix & energetic transition
- > Environmental management
- > Sustainability strategy

M2 - YEAR 2 on Nantes campus

- > Wastes, conditioning and storage
- > Dismantlement and decommissioning
- > Geological disposal
- > Safety
- > Management, safety & society

Courses are subject to change without notice

100 % taught in English

6-month internship in a company or lab

PhD opportunities



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

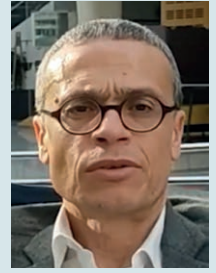


#NuclearTechnology
Energy #Physics
#WasteManagement
#Dismantlement
#Decommissioning
#NuclearSafety



THE INTERVIEW OF OUR EXPERT

« The program benefits from a large network of industrial and academic partners, with many opportunities of jobs. Many of our alumni are being hired by the French nuclear industry. »



Abdesselam ABDELOUAS
Professor in Radiochemistry
Director of the MSc

CAREER OPPORTUNITIES

Manager of nuclear waste in industrial, hospitals or research institutions, Safety engineer for radioactive waste management solutions, Engineer in international agencies involved in nuclear waste issues, R & D engineer, etc. Possibility to continue in PhD.

RESEARCH EXPOSURE

The MSc is managed by Subatech, a joint research unit in Subatomic physics and associated technologies between the CNRS-IN2P3, IMT Atlantique and the University of Nantes. Fully integrated in major worldwide scientific collaborations, Subatech's research activities revolve around the fields of nuclear, hadronic, particle and astroparticle physics and radiochemistry.



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 400 in QS ranking for « Physics & Astronomy ».

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

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

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

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