

International masters of science

PROGRAMS ENTIRELY TAUGHT IN ENGLISH ACCREDITED BY THE MINISTRY OF EDUCATION



Computer Science / Industrial Engineering
Energy and Environment / Nuclear Energy



ECOLE DES MINES DE NANTES
FRANCE

Combine Technical and Scientific courses and projects + Management courses:
 An opportunity to put into practice theoretical concepts in a real industrial environment
 through conferences, projects, company visits and a 6-month industrial
 or research master thesis.

Computer Science

MSC IN EVOLVING COMPLEX SOFTWARE SYSTEMS (ECSS)

This program is a double-degree Master from the Vrije Universiteit Brussel (VUB) Belgium and Ecole des Mines de Nantes, France.

The first year will be in Brussel, the second year in Nantes-France, 2 Masters degree are awarded.



Objectives:

This master forms software engineers able to manage technical evolution of complex software systems. This involves altogether, scientific, technological and methodological skills. The program provides:

- a solid scientific background and technical knowledge in software engineering include up-to-date technologies and methodologies (distributed systems, programming and modelling languages, large scale software engineering)
- specializations: cloud computing, energy as a resource, open source project development, etc. -
- project management in an international context and social sciences

Jobs opportunities:

- Application integration
- Project manager or information system consultant or expert
- Possibility to continue in PhD

➔ Website: www.mines-nantes.fr/ECSS
 Contact: ecss-admission@mines-nantes.fr

Industrial Engineering

MSC IN MANAGEMENT OF LOGISTIC AND PRODUCTION SYSTEMS (MLPS)

Objectives:

The graduates of this Master of Science will be able to manage supply chains, industrial or production departments or distribution or transport systems in an international context.

The program provides:

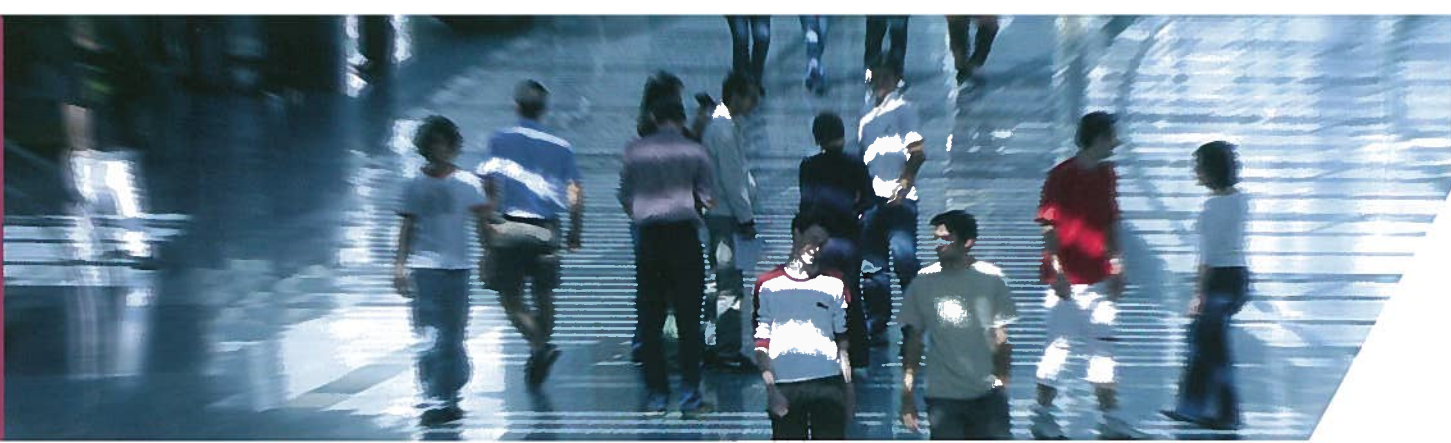
- a high level industrial engineering and management skills focused on supply chain management
- a strong focus on quantitative methods of optimization and decision making tools for the planning of supply chain and transport systems and the ability to use them in an industrial context.
- ability to manage projects in a complex environment and to work within an international team.



Jobs opportunities:

- Supply chain or logistics system manager
- Project manager for supply chain development
- Consultant or expert in optimization for supply chain or transport systems
- Possibility to continue in PhD

➔ Website: www.mines-nantes.fr/MLPS
 Contact: mlps-admission@mines-nantes.fr



Energy and Environment

MSC IN PROJECT MANAGEMENT FOR ENVIRONMENTAL & ENERGY ENGINEERING (PM3E)

Objectives:

The master forms engineers capable of piloting complex projects in an international context in the environment and energy. The program provides:

- a solid scientific background and technical knowledge of processes applied to the treatment of pollution (air, water, wastes) and efficient use of energy.
- competencies in industrial process control, modelling and design
- strategies of sustainability, environmental and resource management
- a significant grounding in project management and social sciences

Jobs opportunities:

- Project engineer related to Environment and Energy
- Exploitation or production engineer
- Business or consultant engineer
- Research & Development engineer

➔ Website: www.mines-nantes.fr/PM3E
 Contact: pm3e-admission@mines-nantes.fr



EUROPEAN JOINT MASTER IN MANAGEMENT & ENGINEERING OF ENVIRONMENT & ENERGY (ME3) *Erasmus Mundus Label*

Objectives:

The master forms engineers capable to pilot complex engineering projects in industry and solve environmental and energy issues through an integrated approach, taking into account human, social and economic challenges. The program provides:

- a solid culture of the international Environmental and Energy policies
- good skills in environmental process modelling and design.
- a capacity to understand and analyse the social, economic, industrial stakes and their interactions
- a capability to propose and set up global industrial solutions
- a capacity to orient strategies and develop innovations, with a perspective of sustainability.

Jobs opportunities:

- Project engineer related to Environment and Energy
- Exploitation or production engineer
- Business or consultant engineer
- Research & Development engineer

➔ Website: www.mines-nantes.fr/ME3
 Contact: me3@mines-nantes.fr



Sustainable Nuclear Energy and Waste Management (SNEWM)

MSC IN ADVANCED NUCLEAR WASTE MANAGEMENT (ANWM)

Objectives:

The master forms engineers exposed to a highly complex scientific environment where technical expertise is omnipresent in the field of nuclear waste management. The program provides:

- the scientific knowledge necessary for nuclear waste management and the capability to understand how to assess long-term safety and environment impacts.
- the competencies to master the operational techniques and strategies for the management of nuclear waste
- the appropriate solutions according to the type of waste through project work in industry.
- the possibility to build contacts with a large number of international key players in the field
- societal considerations in the management of nuclear waste with regard to the public acceptance

Jobs opportunities:

- Project engineer related to Nuclear Energy, decommissioning, nuclear waste processing, conditioning, safe storage
- Manager of nuclear waste in industrial, hospitals or research
- Research scientist and development engineer
- Safety engineer for radioactive waste management solutions
- Regulators for governmental control of waste management practices
- Engineer of international agencies involved in nuclear waste issues

➔ Website: www.mines-nantes.fr/SNEWM-ANWM
Contact: anwm-admission@mines-nantes.fr

MSC IN NUCLEAR ENERGY PRODUCTION (NEP)

Objectives:

The program provides:

- the basic knowledge necessary for understanding and development of nuclear physics, thermohydraulics for nuclear reactors systems
- the competencies to master reactor operation, maintenance and safety issues societal considerations related to nuclear energy production.

Jobs opportunities:

- Project engineer related to Nuclear Energy
- Safety engineer in nuclear power plant operation and environmental controls
- Research scientist and development engineer for present and future nuclear energy systems

➔ Website: www.mines-nantes.fr/SNEWM-NEP
Contact: nep-admission@mines-nantes.fr

PREREQUISITES FOR ADMISSION IN MSC

- Bachelor degree in Engineering or science or an equivalent degree.
- English test (TOEFL iBT: 80, IELTS 6.0, TOEIC 750, Cambridge)
- Work experience is not mandatory but is a "plus" for the selection
- No prerequisite in French

PRACTICAL INFORMATION FOR INTERNATIONAL STUDENTS

- Download the application form here: www.mines-nantes.fr/en/Study/Application-and-admission-details/Master
- Accommodation available for all the students on the campus
- Free French lessons
- Student association to welcome foreign students
- International student office with English speaking staff

SCHOLARSHIPS AND DISCOUNTS

For European students, students from university partners, Academic excellence scholarship, Erasmus Mundus scholarship (only for ME3 program), Governmental scholarship, Industrial scholarship ...

AN IDEAL STUDY ENVIRONMENT: NANTES

The EMNantes is situated in Nantes, the 6th largest town in France. It is the economic capital of the West of France and a dynamic city in terms of cultural activities. Located only 50 km away from the Atlantic coast, Nantes is also 2 hours by train from Paris.

GENERAL CONTACT

InternationalStudentsOffice@emn.fr

FACEBOOK PAGE-CONTACT ALUMNI

GEM-Graduate School of Engineering
EMNantes- France