

# MANAGEMENT AND OPTIMIZATION OF SUPPLY CHAINS & TRANSPORT

## MASTER OF SCIENCE

### ACCREDITATION

This MSc in Management and Optimization of Supply Chains & Transport (Most) is accredited by the French Ministry of Higher Education & Research.

National Accreditation Reference: 1601034E

### Mention

Management of Production, Logistics and Procurement

### KEY WORDS

Supply Chain, Logistics, Management, Optimization, Transport, Industrial Engineering, Engineering Management.

### SCHOOL OFFERING THE MASTER

IMT Atlantique, a «Grande Ecole» which is part of the Institut Mines-Telecom, a leading French higher Education and Research Institution in Engineering, with 12,500 students.

### LOCATION

This MSc program is offered on Nantes campus. Nantes is France's sixth-largest city and capital of the third-largest industrial region. Nantes lies just 50 km from the Atlantic coast; Paris is 2 hours away by high-speed train. Nantes is a dynamic city, which has been frequently recognized for its quality of life. The campus provides all the students facilities: student's residence, sports facilities, wireless network, library, associations, etc.

### INDUSTRIAL PARTNERS

Airbus, Dachser-Graveleau, GE Healthcare, Ernst&Young, Thales Avionics, EuroDecision...

### LANGUAGE OF TEACHING

100% English

### ENVIRONMENT

Supply Chain management is concerned with the global management of physical, information flows for the elaboration of products, going from raw materials and suppliers through the production and distribution system down to the final consumers. Transport activities play also a key role in the organization of the system. The design, planning and optimization of global supply chains and their components (procurement, production, distribution and transport) have become a key factor of performance competitiveness for companies of all sectors in the increasingly competitive global economy. The program covers the logistics activities of companies in the productive sectors as well as in the service activities.

### COURSE AIMS

The MSc MOST aims to give a competitive edge to students and young professionals interested in industrial engineering and engineering management with a high emphasis on quantitative methods for decision making in the field of supply chain and transport management and optimization.

### PROGRAM

#### Scientific and technical modules:

- > Production and Operations Management
- > Operations Reserach
- > Decision making with uncertainty and Simulation
- > Supply Chain performance methods & Evaluation
- > Supply Chain design & support
- > Supply Chain and transport planning and optimization
- > Planning and scheduling of production and services

#### Management modules:

- > Introduction to Supply Chain Engineering and Management
- > Strategy and Project Management
- > Economics, Marketing, Finance and Organization
- > Purchasing, E-business & Innovation
- > Supply Chain Information systems and technologies

Company visits, Scientific seminars, Technical projects, Generic methods for Engineers, French language & culture

#### Professional coaching (Student centred process of reflection on competencies and professional objectives)

- > 6-month MSc thesis in Industry or research lab

### ADMISSION REQUIREMENTS

The international MSc in MOST is open to candidates with a Bachelor of Science degree in any major [Industrial Engineering, Mechanical, Applied Mathematics...] or a Management or Economics degree with strong emphasis on quantitative techniques.

Possible admission into the 2nd Year of the Master for the students who already have a Master degree in Industrial Engineering.

### LANGUAGE REQUIREMENTS

#### English

- > Mother tongue or
- > Bachelor degree taught in English or
- > English test such as TOEFL IBT 80, IELTS 6.0, TOEIC 750, Cambridge

No prerequisite in French

### APPLYING

Apply at

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

Applications are opened from October to May each year.

### STRONG POINTS OF THE SCHOOL

- > MSc accredited by the Ministry of Higher Education and Research
- > International Faculty
- > Masters taught entirely in English and in small groups
- > Strong links with the industries
- > 6-month master thesis in industry or in a research lab
- > European track possibility
- > Intercultural seminars
- > Free French language courses
- > Master boosted by a research department
- > An international team for international students
- > A quality chart to welcome international students
- > Nantes airport/train station pick up
- > Accomodation available on campus
- > Scholarship based on excellence.
- > French Summer School program in July and August for students who wish to improve French language and culture skills.

# MANAGEMENT AND OPTIMIZATION OF SUPPLY CHAINS & TRANSPORT

## MASTER OF SCIENCE

### COMPETENCES ACQUIRED

- > The high-level technical and management skills necessary for the management of supply chains and logistics and transport systems for the productive or service sectors;
- > An advanced training in Operations Research and Decision-making techniques applied to supply chain management;
- > An in-depth knowledge of industrial systems operations management, production, transport and logistics in all sectors of economic activity;
- > The ability to manage complex innovative projects in an international environment;
- > The opportunity to put into practice the theoretical concepts in a real industrial environment or conduct a research project aimed at developing innovations in the area;
- > The chance to learn the French language and acquire the French culture;
- > The opportunity to enter a high-level carrier in industry or to continue for the preparation of a doctoral thesis.

### TYPICAL JOBS

- > Supply Chain Manager
- > Supply Chain Consultant
- > Consultant or expert in optimization for supply chain or transport systems
- > Planner, Analyst
- > Production Planner, Production Analyst
- > Project Manager for supply chain development
- > Purchaser / Buyer

### COST

Participation cost: 12 000 € / year

### SCHOLARSHIPS

Special rates for :

- > European students from the Erasmus zone ( 6 000 € / year)
- > EU Graduate students from our partner universities (3 000 € / year)
- > EU students met at Education fairs (5 400 € / year)
- > excellent EU applications or recommended EU applications (2 600 € / year)
- > Non-EU students graduated from our partner universities (6 500 € / year)
- > Non-EU students met at Education fairs (9 600 € / year)
- > Non-EU Excellent applications or recommended applications (6 000 to 9 000 € / year)
- > Double-Degree students (4 500 € / year)
- > Possible Industrial sponsorship.

### CALENDAR

One intake per year in September.

**Year 1:** Two academic semesters on Nantes campus

**Year 2:** One academic semester on Nantes campus + 6 month Master thesis in industry or in a research lab.

Possible exchange semester at an international partner university.

### LODGING

The student's residence (called «MDE») located on campus offers furnished individual rooms. They are 18m2 and equipped with a private bathroom and a small kitchen.

Some rooms for couples are also available. The standard size is 30m2, including a living room and a separate bedroom.

[housing-nantes@imt-atlantique.fr](mailto:housing-nantes@imt-atlantique.fr)

### FOLLOW IMT ATLANTIQUE ON SOCIAL NETWORKS

**Facebook** IMTAtlantique

**Twitter** @IMTAtlantique

**Instagram** @imt\_atlantique

### DETAILS OF SCHOOL

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La Chantrerie  
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