



# INDUSTRIAL ENGINEERING

International Master of Science (MSc)

## Track MOST Management and Optimization of Supply chains and Transport

Towards the **Next Generation of Supply Chain** in the context of **Circular Economy** under the pressure of **sustainability** imperatives

### ACADEMIC DETAILS

#### 2-year full time program

- > September intake – 4 semesters

#### Skills

- > Value chain in a world in transition
- > Essential math and computer science for predictive and prescriptive analytics
- > Management, entrepreneurial, multilingual and interculturality
- > Immersion in real life settings : projects, company visits, seminars, internship in company or research lab...
- > French language & culture

#### Internationally recognized degree

- > MSc in Management of Production, Logistics and Procurement (MPLP) accredited by the Ministry of Higher Education, Research and Innovation.  
No. 20170875 – 1702816M

*Courses are subject to change without notice*

#### M1 - YEAR 1 on Nantes campus

- > Fundamentals of supply chain management
- > Operations management
- > Operations and humans in manufacturing
- > Environmental sustainability
- > Computer and data science
- > Operations research
- > Strategy and project management

- > Maintenance, reliability and simulation
- > Purchasing and e-business
- > Quality and lean management
- > Firm level economics : market & allocation
- > Traveling salesman problem lab
- > Probability and statistics
- > Combinatorial optimization

#### M2 - YEAR 2 on Nantes campus

- > Network optimization
- > Supply chain information systems
- > Production planning and scheduling
- > Forecasting and simulation
- > Advanced operations research
- > Supply chain integrated project

100 % taught in English

6-month paid internship in a company or lab

PhD opportunities



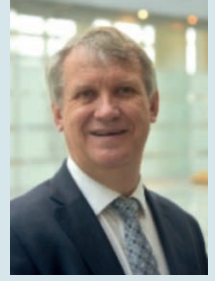
**IMT Atlantique**  
Bretagne-Pays de la Loire  
École Mines-Télécom



#SupplyChain #Logistics  
#Production #Transport  
#Optimization  
#ComputerScience  
#DataScience  
#DecisionAnalytics  
#MathematicalModeling  
#EngineeringManagement

## « TOWARDS SUSTAINABLE SUPPLY CHAINS »

« By taking action now, supply chain stakeholders can demonstrate leadership in the fight against climate change and position themselves for success in a low-carbon future, which requires both resiliency and sustainability. In this MSc, students will be engaged in addressing the new emerging intricate challenges posed by digital and transitions green to all the supply chain players. »



**Alexandre DOLGUI**

Professor of Industrial and Systems Engineering  
Fellow of IISE, IMT Atlantique

## CAREER OPPORTUNITIES

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

## RESEARCH EXPOSURE

The MSc is managed by the IMT Atlantique Research Department in **Automation, Production and Computer Science**. One of its main research themes is **Optimization and Decision-support for Production and Transport**. A semester-long research and innovation project is integrated in the program, as an opportunity to apply the acquired scientific knowledge and technical skills under the supervision of researchers and practitioners.



FRANCE

## 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 150 in QS ranking for « Statistics & Operational research ».

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

Find out more:  
[www.imt-atlantique.fr/most](http://www.imt-atlantique.fr/most)

Contact us:  
[most-apply@imt-atlantique.fr](mailto:most-apply@imt-atlantique.fr)

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