

MASTER OF SCIENCE AND ENGINEERING (MSE) SMART CITIES

RAMPANT URBAN DEVELOPMENT IS ACCELERATING WORLDWIDE ACCENTUATING NEEDS FOR URBAN PLANNING, INFRASTRUCTURE AND BUILDING TECHNOLOGY AS WELL AS SOCIAL AND ECONOMIC ISSUES. LILLE, HEI AND THE UNIVERSITÉ CATHOLIQUE DE LILLE ARE AT THE CENTER OF THIS THIRD MILLENIUM INDUSTRIAL REVOLUTION ENGAGED IN THE ENERGY TRANSITION WHICH RESULTS.

MSE-Smart Cities offers, in English, to International Students, Managers and future Managers the skills and competencies needed to succeed in these very important stakes in a wide variety of environmental disciplines Professional orientation and employment success in numerous application and economic sectors, urban development, Environmental management and Habitat.



Master of Science and Engineering (MSE) SMART CITIES

Accredited by French government



Year 2 (M2)
Year 1 (M1)

Taught in english



Prerequisite:

Bachelor of Sciences (or equivalent)

COURSE CONTENTS

**Sustainable
Urbanism
10 ECTS**

Urban development, Sociology
& Economy, Energy Transition,
Eco-neighborhoods, Urban Transport ...

**Environment
8 ECTS**

Space Management, Landscaping,
Water and Waste Management ...

**Sustainable
Building
10 ECTS**

Architecture, Architecture Bioclimatics,
Building Energy Performance, Eco-
renovation, Certifications and labels ...

**Energy
8 ECTS**

Renewable energy, Smart Grids,
Home automation ...

MAJOR

**Tools and
Software
6 ECTS**

AutoCad, Introduction to Building Information Modeling
Management (BIM), Innovation and Collaborative
Teamwork ...

**General
Engineering
42 ECTS**

Mathematics for Engineers, Electricity, Mechanics,
Innovation management, Team management, Business
management, Project management, Collaborative
management, Quality management, Accounting, Marketing,
Intercultural communication ...

**Professional
Experience
36 ECTS**

The program includes completion of full time team project
and professional paid internships with companies or
laboratories, in France or abroad, for a total duration from
10 to 12 months.



Your first steps towards a job

Our objective is for you to acquire business experience:

- 3 months Professionalization internship (M1)
- 4 to 6 months Master Graduate internship (M2)
- 3 months full time team projects for real case studies requiring deliverables to companies or laboratories (M2)

Professional Opportunities

Engineer, Technical Expert, Manager, Consultant, Sales engineer, Team leader, in professional fields as : Building Energy Efficiency, Renewable and Alternate Energies, Heating and Cooling, Acoustics, Home automation, Environment and site security, Power production, Air soil and water quality, waste management, Environmental Quality...

Some companies who recruit HEI graduates

Bouygues Construction	Léon Grosse
Electricité de France (EDF)	Robot Dutilleul
Schneider Electric	Vinci Energies
Groupe Fayat	Archetype Group
Vinci Construction	Willmotte
Réseau Transport Electricité (RTE)	Veolia
Eiffage Energies	Areva
Saint Gobain	Alstom
Eiffage Construction	Renault ...

Admission prerequisites

- Bachelor of Science (or equivalent)
- GPA: 3.0 or superior.
- English B2 level ie. BULATS 60, TOEIC 785, TOEFL 87
- French B1 level upon graduation language and cultural training programs are available

Tuition fees: 10 000 € / year

Calendar

Deadline:	27 April 2016
Starting date:	September 2016

Information and application form at: www.hei.fr

Added Value

- Welcome package: At HEI, we place particular emphasis on hosting and integrating international students, prior to and upon arrival in Lille and throughout their stay with us. Assistance in all administrative steps such as mobile phone lines, internet connections, the opening of bank accounts, health and insurance, etc.
- Professional package: For HEI, knowledge acquisition in order to become engineer is only one part of the student's training. Another part involves giving them Competency building and skills are the keys to success in a competitive world.

With support from partners in Chair Energy Habitat Environment

Contacts

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HAUTES ÉTUDES D'INGÉNIEUR

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