



programs open to

international students

«*Study at MINES Saint-Étienne!*»

www.mines-stetienne.fr



INSPIRING
INNOVATION
SINCE 1816

École nationale supérieure des mines de Saint-Étienne « Mines Saint-Étienne »

MINES Saint-Étienne

Study at Mines Saint-Étienne, a Prestigious French « Grande École d'Ingénieur »!

A Top Ranking Prestigious French
« Grande Ecole d'Ingénieur » since 1816

Institute of Science and Technology
Graduate and Doctoral School

Education and Research dedicated to
Economic Development

**A wide range of high-level
scientific and technical
programs at graduate and
doctoral level**



MASTER'S DEGREES IN ENGINEERING or « TITRES D'INGÉNIEUR GRANDE ECOLE »

Ingénieur Civil des Mines (ICM) & Ingénieur Spécialité
Microélectronique et Informatique (ISMIN)

« Obtain a Master's Degree in Engineering in 2 years »

The ICM and ISMIN graduate engineering diplomas are obtained after 5 years of higher education of which the last 3 are taken at MINES Saint-Étienne.

International students who have completed a first cycle in Science and Engineering can be admitted (see requirements) for the last 2 years and obtain a Master's Degree in Engineering. After graduation, they have the possibility to continue as PhD students.

The engineering programs are qualified Masters in Engineering taught in French and English, accredited by the « Commission des Titres d'Ingénieurs ». They combine broad theoretical knowledge with hands-on projects, development of management and communication skills through mandatory international experience and practical training in partner companies. Small-group teaching and close educational supervision are essential features of the program.



Substantial Internships in Industry during the Master's in Engineering!

Master's Degree in Microelectronics Engineering « Ingénieur Spécialité Microélectronique et Informatique » (ISMIN)

Since 2003, the ISMIN degree has been educating highly specialized engineers in the sectors of nanotechnology, information systems and new technologies.

After graduating from MINES Saint-Étienne, an « Ingénieur Spécialité Microélectronique et Informatique » is a specialist qualified to **innovate, design, set up, organize and manage** large-scale industrial projects in an international and global environment in this specific domain.

*One year or one semester of academic studies (transferable credits): Access to all French and English-taught graduate courses in applied science and engineering. Several-months lab projects in fields related to the ten Majors covered proposed by the programs. **Compose your program « à la carte » !***

Master's Degree in Engineering « Ingénieur Civil des Mines » (ICM)

This degree was originally created to meet the needs of elite executive staff in the French mining industry. Associated with the "Mines" label, a symbol of excellence for over 120 years, **ICM now offers a broad educational program dedicated to responding to the current and future needs of industry in Material Science, Mechanical Engineering, Process and Energy Engineering, Information Technology, Data Science, Industrial Engineering, Urban and Industrial environments, Corporate finance, Biomedical Engineering...**

ICM engineering students combine two Majors from a choice of ten and build a unique interdisciplinary profile.

After graduating from MINES Saint-Étienne, an « Ingénieur Civil des Mines » is a high level generalist engineer who is able to:

Innovate in a chosen field of expertise, interact with experts in other fields, **manage** complex organizations and lead teams, operate in a **multicultural** and global context, respond quickly to professional **challenges**.

Syllabus online at :
<http://www.emse.fr/DF/xx274b.php>

MASTER OF SCIENCE DEGREES

*« Obtain a Master of
Science Degree in 1 year »*

A Master of Science degree is obtained after 5 years of higher education of which the final 2 are taken at the MINES Saint-Étienne. The final year is composed by 6 months of courses and 6 months of internship/master thesis, in collaboration with R&D centers of companies.

Degree seeking International students can be admitted* (see requirements) for the final year and obtain the diploma of Master of Science in one year. After graduation, they have the possibility to continue as PhD students.

Masters of Science taught in English:

- Materials Science and Engineering
- Surface Engineering and Tribology
- Biomedical Engineering and Design
- Industrial Engineering and Operations Research
- Process Engineering & Industrial Energy Efficiency
- Cyber-Physical Social Systems
- Mathematical Imaging and Spatial Pattern Analysis

Masters of Science taught in French:

- Prospective Design
- Mechanics and Materials Processing
- Microelectronics and nanoelectronics
- Maths in action
- Data and Connected Systems
- Science for Industrial and Urban Environment
- GEOgraphy SPaces Human Environment RESources (GEOSPHERE)

*Requirements for applicants for Masters in Engineering and Masters of Science:

Prior successful completion of a first year of a Master's Degree in theoretical and / or applied science, or equivalent diploma (at the home university or Ecole des Mines) / or 240 ECTS validated.

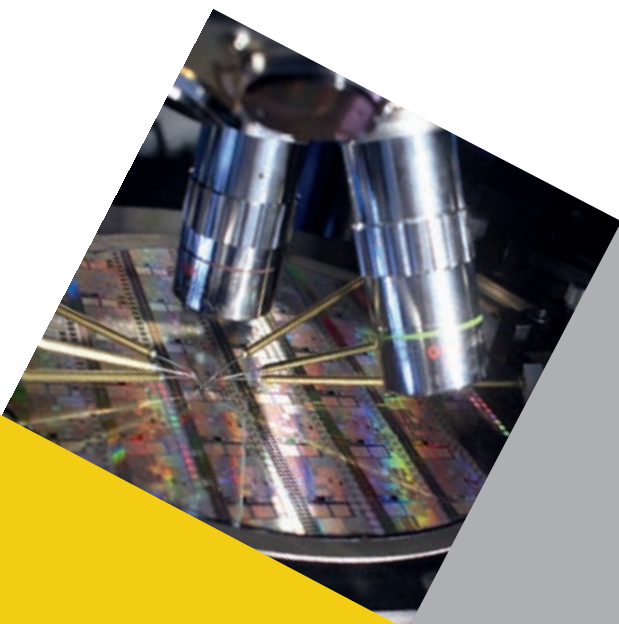
Level B1 (CEFR-Common European Framework of Reference for Languages) in French language is required for students joining graduate engineering programs and Masters of Science taught in French.

A good command of English is mandatory for all programs especially the Masters taught in English.

DOCTORAL STUDIES

and internship opportunities

PhDs available in our 5 research departments, open to students holding a Master of Science or a Master in Engineering.



Microelectronics –CMP

Optimization and operational research in industrial engineering/ Security, Characterization of Circuits and Hardware Protection (smartcard)/ Inkjet Printing on Flexible or Etirable Substrates for Connected Objects/ Interfacing between Life Sciences and Organic Electronics

contact :
lalevee@emse.fr

Materials Science and Mechanical Engineering - SMS

Optimizing materials and structures for Energy production, transport and storage / Designing lighter structures for fuel-efficient transportation / Local Multiphysics Analysis for structural materials and functional surfaces / Human-centered design of materials and surfaces for the creative industries

contact :
wolski@emse.fr

Henri Fayol Institute-IHF

Mathematical technics to Optimize Complex Product and Production Systems / Computer Science for Decentralized, Open and Cooperative Systems / Modeling and Management of Industrial and Territorial Systems, including Risk and Environmental Assessment / Corporate social responsibility, innovation and change management / New Business Models

contact :
leger@emse.fr

Chemical Engineering and Natural Processes–SPIN

Powder Technology / Particle Design / Geometry & Physics of Granular media / Crystallization / Application of Gas Hydrates / Reactivity of solids / Heterogeneous kinetics / Solid Gas interactions / Chemical gas sensors & Instrumentation / Hydrosystems Modeling & GIS / Optimal Allocation of Water resources / Remediation of metallurgical & mining brownfields / Reactive Transport in Geological environments

contact :
grosseau@emse.fr

Health engineering –CIS

Biomechanics: soft tissue experimental characterization and computational modeling in interaction with medical devices, cardiovascular bioengineering / Biomaterials: bioceramics for bone tissue engineering, biodistribution, biopersistence, bioreactivity of inhaled nanoparticles, biotribocorrosion of implants/ Healthcare engineering: modeling and optimization of healthcare systems, hospital logistics and planning

contact :
avril@emse.fr

STUDENT LIFE

2 campuses

- Historical campus in **Saint-Etienne**, one hour from Lyon
- Campus Georges Charpak Provence in **Gardanne**, 15 min. from Aix-en-Provence and 30 min. from Marseille

Accommodation

Rooms and studios at MINES Saint-Étienne student residence on both campuses, depending on vacancies.

- Student residence in **Saint-Etienne**, Information and contacts:
<http://www.mines-stetienne.fr/fr/content/966-la-maison-des-eleves>
- Student residence in **Gardanne**, information and contacts:
<http://www.mines-stetienne.fr/fr/content/968-la-residence-des-eleves>

French Summer School and integration programs for international students

Social activities

culture, sport, student life

Student association

<http://www.mines-stetienne.fr/fr/content/1619-le-bureau-des-eleves-bde>

Alumni association

<http://www.mines-saint-etienne.org/gene/main.php?base=1386>

Financial aspects

Living expenses

€600 to €700/month

Tuition fees and grants

Students are exempt from tuition fees in case of exchange agreements.

Masters students are eligible for grant programs, subject to academic achievement and financial support for accommodation expenses.

Internship periods are generally covered by allowances.

PhD students are all granted € 1400/month.

STUDENT TESTIMONIES

« Experience the french way of life »

« Multi culturalism and thorough professionalism, alongside excellent professors and **excellent academics are top experiences** for really succeeding in my career for the future. »

« An internship in France is the **most valuable thing.** »



« I think it **offers the ability to be an engineer who can work everywhere in the world;** This type of 'worldwide engineer' is great. »

« We have an **alumni association that is big and efficient** and we can go to the website to keep in contact with all the other alumni in the network. So this is what I will do when I go back to my home country. »

YOU WANT TO STUDY...

- Material Science and Design
- Mechanical Engineering
- Process and Energy Engineering, Energy Transition
- Microelectronics, Embedded Systems, Data Integrity
- Nanotechnologies
- Information Technology
- Data Science, Big Data
- Industrial Engineering, Levers of industrial Renewal
- Biomedical Engineering, Biomechanics, Biomaterials, Healthcare Engineering
- Urban and Industrial Engineering
- Corporate Finance



how to apply?

Build your mobility project with the International office of your University in case of exchange agreements.

Or contact:

international@emse.fr

to apply to MINES Saint-Étienne

WHY CHOOSE MINES Saint-ETIENNE?

- Excellence in Teaching and Research
- Close links with Industry and high employability
- Obtain a Master's in Engineering in 2 years or a Master of Science in 1 year
- Master Programs in English and/or French / Masters of Science 100% in English
- PhD opportunities
- An International Engineering School with 100+ partnerships in 35 countries
- An international and influential alumni network
- Member of a leading higher education and research group of Top French 'Grandes Ecoles d'ingénieur': 'Mines-Télécom Institute'

MINES Saint-Étienne, a school of

Mines-Télécom Institute

Mines-Télécom
Institute

- > A network of **12 schools of engineering and 1 business school in France**, under the Ministry of Economy, Industry and Digital Technology
- > Missioned to serve economic and societal development through higher education, research, innovation and technology transfer
- > Engaged in the 3 main issues transforming today's society :
Digital economy / Energy transition / Industrial transition
- **Over €125 million** research-generated income per year
- **13 200 graduate** and postgraduate students,
- **33% international students**
- **Professor/Students ratio: 1/8**
- **60 000** alumni



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