RÉPUBLIQUE FRANÇAISE
Liberté Égalité Fraternité

MINES Saint-Étienne

Institut Mines-Télécom

Programmes 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 »

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 programmes at graduate and doctoral level.

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

Ingénieur Civil des Mines (ICM) & Ingénieur Systèmes 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 programmes 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 programme.



Substantial Internships in Industry during the Master's in Engineering

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 programmes.
Compose your program « à la carte » !

Master's Degree in Science and Executive 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...**

"Global executive engineers for global industry and services"

The aim of the 'Ingénieur Civil des Mines' is to train engineers for top-level management and technical positions in industrial and service companies in a globalized context.

Syllabus online at:
https://portail.emse.fr/syllabus/ICM/en

Master's Degree in Microelectronics Engineering and Computer Science "Ingénieur Systèmes Microélectronique et Informatique" (ISMIN)

Top-level engineers specialized in innovative and scientific solutions for the high-tech engineering challenges of the global economy

The aim of the "Ingénieur Systèmes Microélectronique et Informatique" is to train engineers in microelectronics and computer science systems, mastering innovation for global industry and services at all stages from conception to operation.

Syllabus online at:
https://portail.emse.fr/syllabus/ISMIN/en

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 last years (1 or 2 years) are taken at Mines Saint-Étienne. It is composed by courses and 6 months of internship/master thesis, in collaboration with R&D centres of companies.

Degree seeking International students can be admitted* (see requirements) at Master 1 or Master 2 level and obtain the diploma of Master of Science in one or two years. After graduation, they have the possibility to continue as PhD students.

Masters of Science taught in English:

- **Materials:** Material Science and Engineering
- **Biomedical:** Biomedical Engineering and Design
- **Industrial:** Industrial Engineering and Operations Research
- **Chemical:** Process Engineering & Artificial Intelligence
- **Computer science:** Cyber-Physical Social Systems - AI and IoT
- **Mathematics:** Mathematical Imaging and Spatial Pattern Analysis
- **Microelectronics:** Hybrid electronics

Masters of Science taught in French:

- **Design:** Prospective Design
- **Mechanics:** Computational Solid Mechanics
- **Mathematics:** Maths in action
- **Computer science:** Data and Connected Systems
- **Environment:** Science for Industrial and Urban Environment
- **Environment:** GEOgraphy SPaces Human Environment REsources (GEOSPHERE)

2 Joint Masters Erasmus Mundus

- **Chemical engineering:** Multiphase
- **Material science engineering:** Meta 4.0

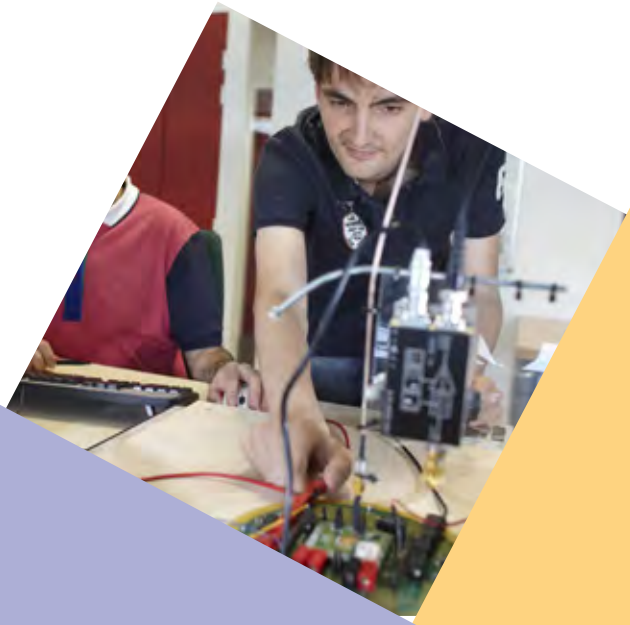
Syllabus online at:
https://portail.emse.fr/syllabus/MASTER/en

***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 (CEFRL-Common European Framework of Reference for Languages) in French language is required for students joining graduate engineering programmes and Masters of Science taught in French.
A good command of English is mandatory for all programmes especially the Masters taught in English.

DOCTORAL STUDIES

and lab placement opportunities

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



Centre for Microelectronics in Provence – 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: Dominique Feillet
dominique.feillet@mines-stetienne.fr

Centre for Materials 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: Christophe Desrayaud
christophe.desrayaud@mines-stetienne.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: Olivier Boissier
olivier.boissier@mines-stetienne.fr

Centre for Science of Industrial 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: Ana Cameirao
cameirao@mines-stetienne.fr

Centre for Biomedical and Healthcare 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: Vincent Augusto
vincent.augusto@mines-stetienne.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-Étienne**, Information and contacts:

www.me-mines-saint-etienne.org

- Student residence in **Gardanne**, information and contacts:

www.mines-stetienne.fr/formation/ismin/

French Summer School and integration programmes for international students

Social activities
culture, sport, student life

"Bureau des internationaux" - BDI

Financial aspects
Living expenses
€750/month

Tuition fees and grants
- Students are exempt from tuition fees in case of exchange agreements.
- PhD students are all granted arround € 1900/month.

Alumni association

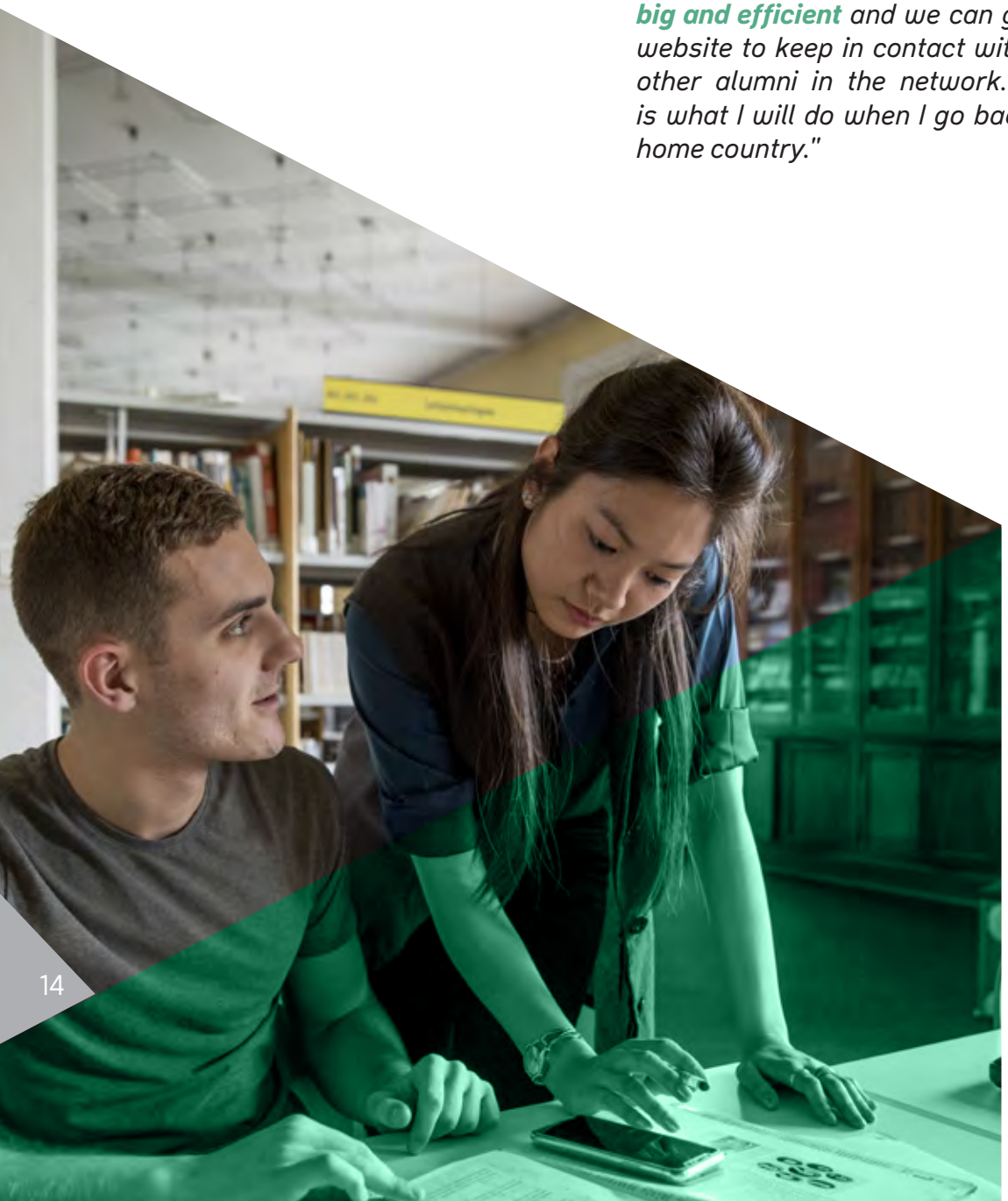
www.mines-saint-etienne.org

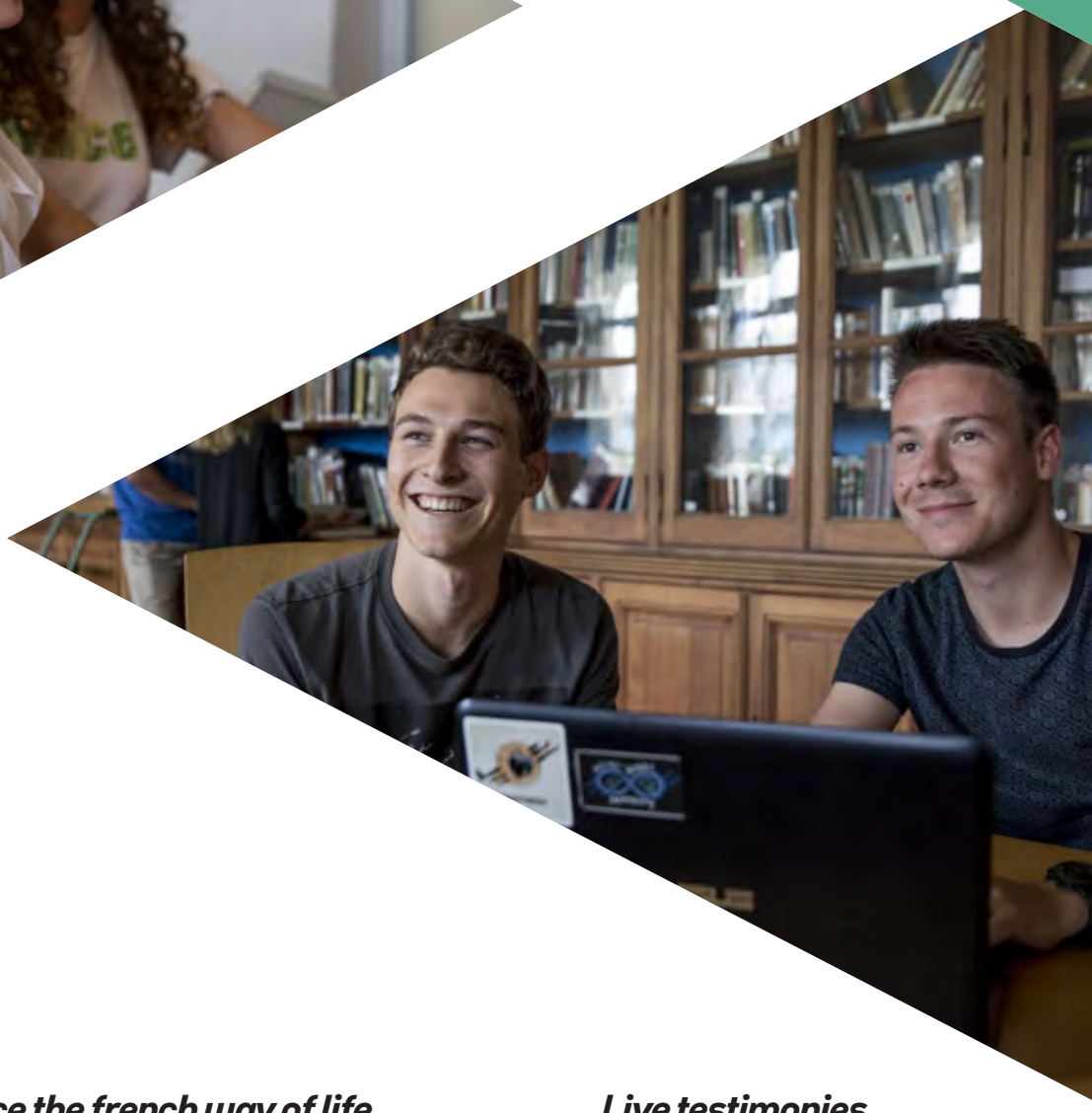
INTERNATIONAL STUDENT TESTIMONIES

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

"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."*





Experience the french way of life

Live testimonies

Films made by international students

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

Download brochures

WHY CHOOSE MINES SAINT-ÉTIENNE?

- 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 Programmes in English and/or French / 8 Masters of Science 100% in English
- PhD opportunities
- An International Engineering School with 200 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

> A network of **10 schools of engineering and business school in France**, under the Ministry of Economy

> 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 : **Responsible industry of the future; Digital sovereignty and sobriety; Energy, the circular economy and society; Health and well-being engineering.**

> **Over € 70 million** research-generated income per year

> **13 600 graduate** and postgraduate students,

> **30% international students**

> **Professor/Students ratio: 1/8**

> **60 000** alumni

Août 2024 - Mines Saint-Étienne, direction de la communication

Mines Saint-Étienne

Campus Saint-Étienne
158, cours Fauriel
42023 Saint-Étienne

Campus Lyon
Campus Région du Numérique
78, route de Paris
69260 Charbonnières-les-Bains

Campus Aix-Marseille-Provence
880, route de Mimet
13541 Gardanne

www.mines-stetienne.fr

MINISTÈRE
DE L'ÉCONOMIE,
DES FINANCES
ET DE LA SOUVERAINETÉ
INDUSTRIELLE ET NUMÉRIQUE
Liberté
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Fraternité