

5 SCHOOLS IN FRANCE – 3 IN OTHER COUNTRIES

- CentraleSupélec (2015)
 - Merge of Centrale Paris (1829) and Supélec (1894)
 - 3 Campus (ParisSaclay, Rennes and Metz)
- Ecole Centrale Lyon (1857)
 - Campus is based in Écully since 1967
- Ecole Centrale Lille (1872)
 - Founded under the name of "Institut Industriel du Nord"
- Ecole Centrale Nantes (1919)
 - Founded under the name of "Institute Polytechnique de l'Ouest"
- Ecole Centrale Marseille (2006)
 - Former "École d'Ingénieurs de Marseille" founded in 1891



THE GROUP ECOLES CENTRALE ELITE INSTITUTES OF SCIENCE AND TECHNOLOGY



Key Figures:

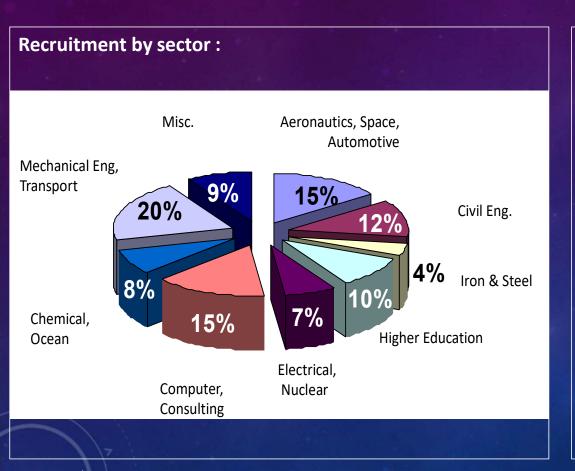
- Nearly 7 000 engineering students
 - 20% recruited through international partnerships
- Nearly 1 300 master students
- More than 1 000 PhD candidates
- 33 Research Laboratories
 - Nearly 1 000 full-time academic staff
 - 12 International Laboratories
 - 35 Industrial Chairs
- 134 International Partners
- 100 000 engineers in activity on the GEC's Alumni Network

GEC's Vision of Engineering:

- Multi-disciplinary curricula
 - Broad overview of future challenging complex problems
- Access to social sciences, foreign languages and humanities
- Soft-skills training
 - Leadership, management & innovation courses
 - Team-work and project-work
- Corporate Networking (internships, job fairs, conferences)
- Global vision & open-minded approach
- Industrial problem-solving education

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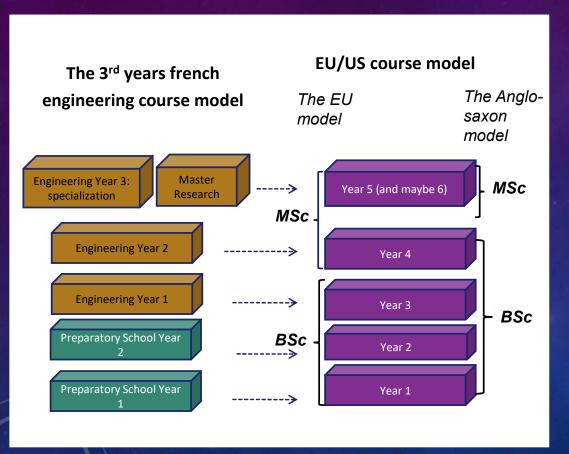


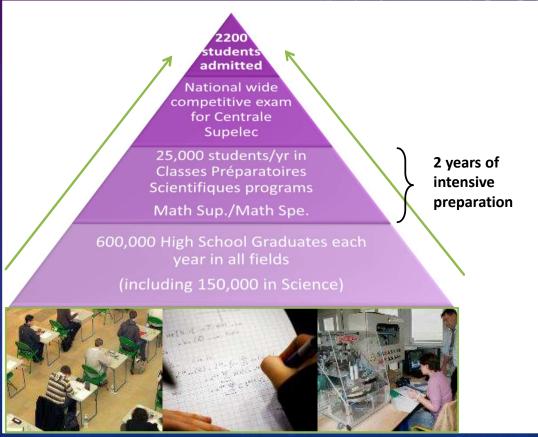
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THE GROUP ECOLES CENTRALE ELITE INSTITUTES OF SCIENCE AND TECHNOLOGY







CORPORATE PARTNERSHIPS & NETWORKING





2 or 3 mandatory internships

at least 28 weeks in companies and/or research laboratories

Hundreds of conferences and projects in team

1 jobfair organized every year in Brazil around 15 companies and 100 students and alumni



SOME WELL-KNOWN ALUMNI



Raphaël Gorgé Centrale Marseille CEO Groupe Gorgé



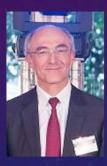
Marie Holive Centrale Lyon Executive Director of NBC Universal International Networks



Jean-Loïc Galle CentraleSupélec CEO Thales Alenia Space



Jacques Maigné Centrale Lyon CEO Hutchinson



Benoit Potier CentraleSupélec CEO Air liquide



André & Edouard Michelin



Marcel Schlumberger



Delphine Ernotte CentraleSupélec President France Télévisions



Cédric Gautier Centrale Nantes CEO Stellia Aerospace



Carlos Tavares
CentraleSupélec
CEO PSA



Hubert Sagnières Centrale Lille CEO Essilor



Michèle Bellon CentraleSupélec Former CEO of ERDF



Armand Peugeot

THE GROUP ECOLES CENTRALE MANY STUDENTS CLUBS AND ASSOCIATIONS

- Students' Union
- Junior enterprise, Job Fair organisation
- Sport clubs : Sailing, Rugby, Football, Basketball, Martial Arts,...
- Arts clubs : Jazz, Chess, Theatre, Cinema, Dance,...
- Science & Technology clubs : Computers, Fablabs, Robotics,...
- Social responsibility: tutoring students from disadvantaged backgrounds
- International students' clubs
- and many more...













ACADEMIC EXCHANGE TRACKS

Incoming (GEC schools as Host Institutions):

- Double Degree Programs (DD)
 - Engineering (2 years mobility, courses and internship)
 - DD 1A + 2A
 - DD 2A + 3A

- Conventional Exchange Program
 - 1 semester
 - 1 year



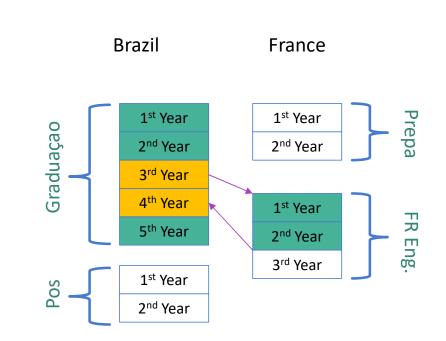
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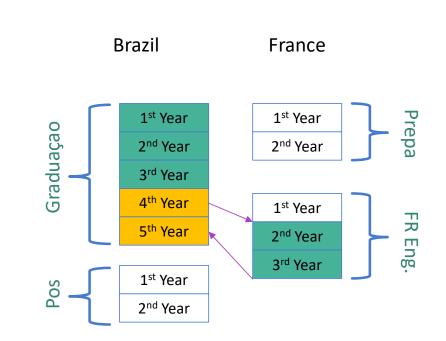


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 - DD 2A + 3A

- Conventional Exchange Program
 - 1 semester
 - 1 year

1 semester or 1 year

(in the 2^{nd} or the 3^{rd} year at Ecoles Centrale)

- Courses,
- Projects in team
- Internship in a lab or in a company

These mobilities don't deliver the French degree!

BRAZILIAN PARTNERSHIPS - RECRUITMENT

Recruitment Agenda Calendar for Double Degree:

- July-September : Call for double degree
- October : Interview of candidates by the GEC committee
- November : Announcement of Selected Candidates
- December : Deadline for Eiffel scholarships
- April: Announcement of Eiffel scholarships
- May: Announcement of BRAFITEC scholarships
- August-September : Beginning of Mobility exchange

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Double Degree Objectives with Brazil: ~ 130 mobilités (for September 2021)

- CentraleSupélec
 - DD 1A + 2A (30)
 - DD 2A + 3A (15)
- Centrale Lille
 - DD 1A + 2A (18)
- Centrale Lyon
 - DD 1A + 2A (12)
 - DD 2A + 3A (12)

- Centrale Marseille
 - DD 1A + 2A (15)
 - DD 2A + 3A (8)
- Centrale Nantes
 - DD 1A + 2A (18)
 - DD 2A + 3A (9)





CENTRALESUPELEC

CENTRALESUPÉLEC

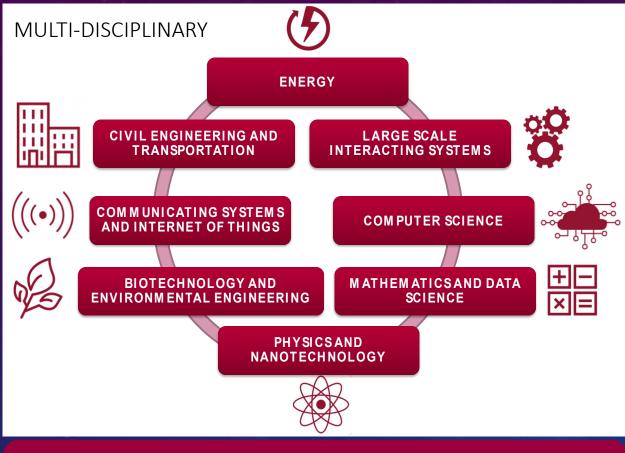
A GLOBAL LEADING ENGINEERING SCHOOL IN SCIENCE & TECHNOLOGY

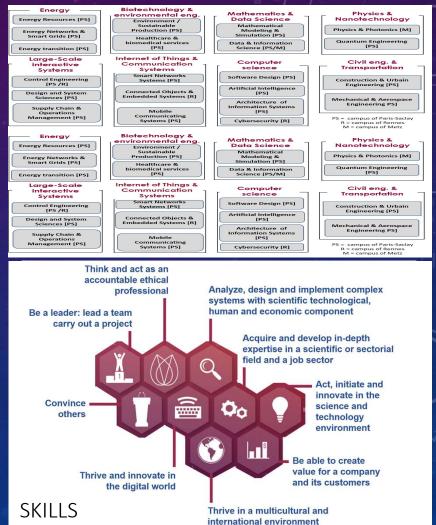
- Top tier French « Grandes Ecoles »
- Ecole Centrale Paris (1829)
- Supélec (Ecole Supérieure d'Electricité 1894)
- merged in Jan 1st 2015 to jointly create CentraleSupélec covering all the fields of engineering
- Sharing values of scientific excellence, innovation, entrepreneurship, internationalization and leadership
- Founding members of Université Paris-Saclay



CENTRALESUPÉLEC







Pedagogy modalities: interdisciplinarity and meaning, skill's evaluation and new pedagogies with active learning, concrete situations, , associative activities, companies at the heart of the trainings, project and professional training student as an actor of his curriculum and his professional project



CENTRALE LYON

CENTRALE LYON

A LONG CULTURE IN ENGINEERING EDUCATION

A public school founded in 1857

1550 Engineering Students in Training (1/4 Female)



- 200 PhD Students, 235 Master Students
- 400 Staff,
- 120 Academics,
 - **50** Full Researchers





- 24% Foreign Students from more than 50Different Nationalities on the campus
 - **12000** Alumni throughout the World









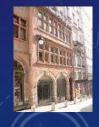












Rhône-Alpes is France's Second most Important Region, economically

Lyon is just **2 hours from Paris** by the TGV High Speed Train,

90mn from the Mediterranean coast, and

90mn from the Alp Mountains (The Rhône-Alpes Region has no less than **216 ski resorts**)

CENTRALE LYON

6









A LONG CULTURE IN ENGINEERING EDUCATION

Research: One of Centrale Lyon's strongest point

160 Researchers , 85 Research Engineers,200 PhD students, 50 Post docs

- **6 CNRS laboratories** (National Scientific Research Center)
- Laboratory of Fluid Mechanics and Acoustics (LMFA)
- Laboratory of Tribology and Systems Dynamics (LTDS)
- Lyon Nanotechnology Institute (INL)
- Ampère Laboratory (Electrical Engineering)
- Camille Jordan Institute (ICJ : Mathematics)
- Lyon Research Center for Images and Intelligent Information Systems (LIRIS)













Main partners: AIRBUS, ALSTOM, CEA, CNES, DASSAULT AVIATION, DASSAULT SYSTEMS, DCN, EADS, EUROCOPTER, EDF, LAFARGE, MICHELIN, PSA, RENAULT, SAINT-GOBAIN, SNCF, SAFRAN, SNECMA, ST MICROELECTRONICS, ANDRITZ, IHI, THALES, THOMSON MULTIMEDIA, TOTAL, NAVAL Group.....





CENTRALE NANTES

CENTRALE NANTES

FOCUSED ON INTERNATIONAL DEVELOPEMENT





Tradition dating back to 1919



Among the best "French Engineering Schools" / 350+



2 150 graduate students



37,000+ Centrale Groupe alumni



550 Researchers and teaching staff



270 PhD students



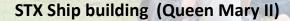
40-acre campus in Nantes



Industrial environment



Nantes & Saint-Nazaire Airbus factories





6 Laboratories associated to CNRS (A or A+) for a cutting edge research





- Fluid Mechanics Laboratory (LHEEA): Hydrodynamics & Ocean Eng., Energetics, Atmosphere Dynamics, Internal combustion engines
- Laboratory of Digital Sciences of Nantes (LS2N): Cybernetics (Robotics, Signal & Automatics, Electronic Systems, Telecom & Radar) and Computer Science
- Research Institute of Civil Engineering & Mechanics: Metallic & composites assemblies, computational mechanics, polymers...
- Laboratory for Mathematics "Jean Leray": non-linear PDE, scientific calculus, approximation, probability statistic
- Urban Environment and Architecture (CERMA): modeling & simulation of natural phenomena, design and characterization of ambiance
- High Performance Computing Institute (ICI): a mid-sized computing center of 6000 cores, one of the most powerful French regional centers.



CENTRALE NANTES

FOCUSED ON INTERNATIONAL DEVELOPEMENT







Centrale Nantes specialisations and masters (in english)

- Control, embedded systems, image processing
- Robotics
- Virtual reality, computer science
- Atmosphere, water and urban environment
- Ocean engineering
- Civil and environmental engineering

- Aeronautics
- Materials and Composites
- Energetics and propulsion
- Industrial engineering
- Manufacturing
- Health











^{*} Offering scholarships for students covering tuition fees + insurance/travel, monthly allowance



CENTRALE LILLE KEY FIGURES



Centrale Lille

Lille Beffroi













✓ 270 People

- 31 Professors
- 49 Associate Professors
- > 10 CNRS
- 120 PhD Students
- 27 Postdocs / Research engineers / ATER
- 35 Invited Profs / PAST (7 FTE)
- > 17 Teaching Assistants



First automated metro in the world

London

Apssterdamy

Destroy

Leonard de Vinci

1500 Students

- > 1273 Engineering Diplôme d'Ingénieur
- 69 Master Sciences M2R (Research)
- > 120 Doctoral Ph.D programs
- ✓ **25 M€** Total budget
- ✓ 88 International partnerships
- ✓ **200** Company partnerchips



Lauvra Lanc naar Lilla

24

CENTRALE LILLE

4 AXES OF SPECIALIZATION IN 8 TRACKS



Fundamental informatics Computer Engineering Automatic Control Signals



SUSTAINABLE CONSTRUCTIONS & ENERGY

- Constructions and sustainable materials
- Energy and smart grids

SMART SYSTEMS AND ENVIRONMENTS

- Smart systems and advanced networks
- •Future networks and smart environments

INDUSTRY FOR THE FUTURE

- Smart industries
- Sustainable conception and productions

FROM STRATEGY TO DATA MANAGEMENT

- •Data science and Artifitial intelligence
- •Modelisation and industrial architecture (IT)



Micro-Nano-Technologies Functional Electronics Acoustics & Optoel. Microfluidics



Electrotechnics Power Electronics



Catalytic Process Engineering Solid chemistry



Civil Engineering Material Sciences Mechanics



Fluid Mechanics







CENTRALE MARSEILLE

CENTRALE MARSEILLE

INNOVATION SPIRIT AND SENSE OF RESPONSIBILITY

Marseille, the 2nd biggest city in France

- 860 000 people
- 3000 researchers
- 2nd pole of public research in France
- 100 000 students





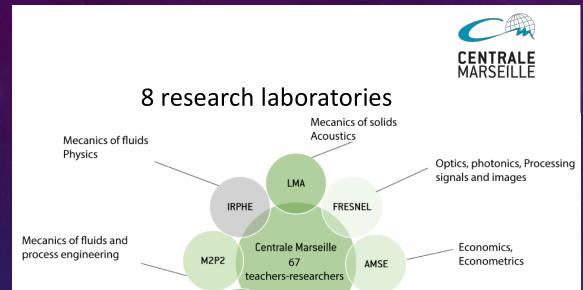
Centrale Marseille facts and figures

- 1000 Students registered in the engineering program
- 11 Masters with 39 specialities
- 80 PhD students supervised by Centrale Marseille researchers
- 15 000 Alumni throughout the world
- **Staff**: **70** administratives, **85** teachers and researchers and more than **200** instructors
- 8 research laboratories in co-supervision

CENTRALE MARSEILLE

INNOVATION SPIRIT AND SENSE OF RESPONSIBILITY





ISM2

Chimistry

LIS

Data processing, Date

engineering: electronic,

sciences, Artificial intelligences, Systems

automatism

I2M

Engineering Specializations:

- DIGITAL-e → Consulting, Computer Science & Data Science
- GREEN → Chemistry, process engineering and sustainable processes
- MECA → Mechanics
 - Modelization of Structural and Material Mechanics,
 - Fluids: energy, transport, environment, health,
 - Marine Engineering
- MMEFI → Mathematics, Management, Economics & Finance
- PICSEL → Photonics, Image, Signal and Communication
- Complex System Engineering (Master in English)
 - Environmental Engineering
 - Biomedical Engineering

Mathematics, scientific,

calculations, Statistical

probabilities





http://www.centralesupelec.fr/

http://www.ec-lyon.fr/

https://www.ec-nantes.fr/

http://centralelille.fr/

https://www.centrale-marseille.fr/