



# Sciences, Engineering and Management in Paris

## Why studying abroad?

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- To be able to work in an International environment
  - ❖ Development of various communication skills exchange, negotiation, work and making business in an international environment, in a multicultural context
- Through an international academic experience and/or internship in a new cultural context
  - ❖ This experience will change your point of view over the cultures and behaviours of people from other countries. This experience will also change your point of view over your own culture.
  - ❖ This experience will help you develop your ability to take initiatives and to be more autonomous in your work.

## WHY CHOOSING FRANCE ?

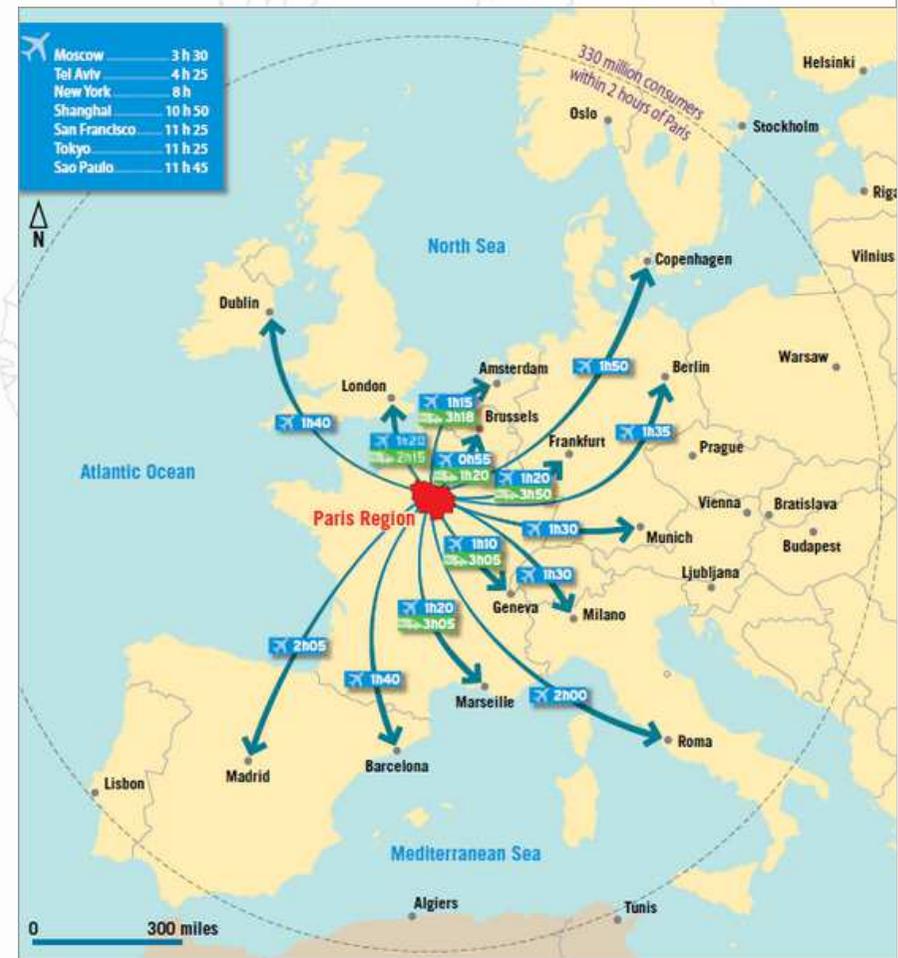
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- Economic power: Europe = 1st GDP, France = 6th GDP
- Situated in the heart of Europe
- Alliance between high tech / innovation and tradition / history and art / quality of life
- Excellence of the high education system
  - ❖ Long tradition of international mobility
  - ❖ 3<sup>rd</sup> destination for international students
  - ❖ Financial support and scholarship programs
- French language
  - ❖ 5th in the world (number of speakers)
  - ❖ 2nd language for the importance (scientific and diplomatic influence)

# PARISTECH: THE OPEN GATE TO ONE OF THE MOST IMPORTANT ECONOMIC CENTER

## ■ Paris Area

- ❖ > 816 000 companies
- ❖ 1/3 of the foreign companies in France
- ❖ 1<sup>st</sup> European center for the 500 biggest multinational companies
- ❖ 1<sup>st</sup> European center for professional meetings
- ❖ 30% of French GDP
  
- ❖ Ranked 1<sup>st</sup> student city in the World
- ❖ 17 Universities, 40 Engineering schools
- ❖ > 70 000 foreign students (20% of the students of the area)
  
- ❖ 40% of national investment in research and development (1<sup>st</sup> European region)
- ❖ 95 500 researchers (1<sup>st</sup> European region)



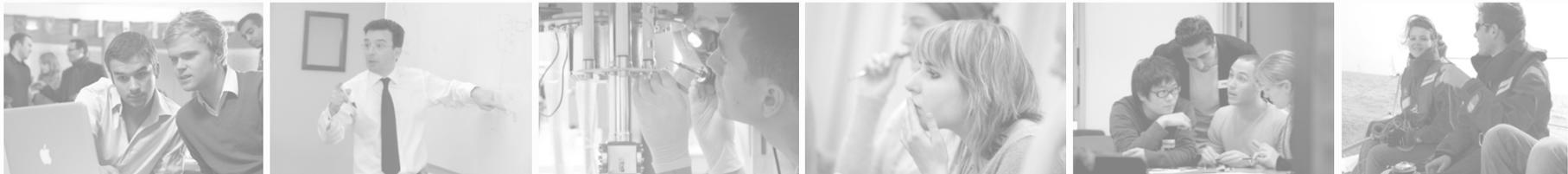
## FRENCH COMPANIES IN CHINA

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- Most of the French multinational are operating in China
- Multinational, SME, start-up
- More than 1500 companies in the Sino-French Chamber of Commerce
- More than 50 companies have a R&D center in China
- Development towards the central and western part of the country

# A CLUSTER OF EXCELLENCE IN RESEARCH AND HIGHER EDUCATION

- ParisTech is a cluster of 12 most prestigious French Grandes Ecoles
  - ❖ 11 Engineering schools and 1 Business School
  - ❖ 7 out of 12 schools are in the top 10 of French rankings among 250 eng. schools
  - ❖ Each one is the best in its specific domain.
  
- Shared-values
  - ❖ High level education based on a highly selective system
  - ❖ Scientific Excellence
  - ❖ Strong interaction with companies, at international scale, in a multidisciplinary context



## FRENCH GRANDES ÉCOLES

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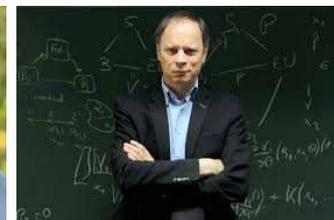
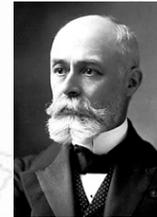
- Grandes Écoles: Graduate Engineering Schools, Graduate Business Schools ...
  - ❖ ≠ Universities
- Created in the 18th century, as a response to the needs of the industrial world
- Specificities of French Engineering schools:
  - ❖ Degrees based on fundamental scientific, engineering and social and economical sciences courses
  - ❖ Individually tutored students (small groups, 1/5 professor/student ratio)
  - ❖ Highly selective system based on academic results and motivation
  - ❖ Many group projects and several industrial and research internships in the curricula
  - ❖ Strong links with companies in research labs and teaching
  - Very high employment possibilities in high responsibility job positions in all economical sectors

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- 1741 – ENSTA ParisTech
  - 1747 – Ecole des Ponts ParisTech
  - 1780 – Arts et Métiers ParisTech
  - 1783 – MINES ParisTech
  - 1794 – Ecole Polytechnique
  - 1824 – AgroParisTech
  - 1882 – ESPCI ParisTech
  - 1878 – Télécom ParisTech
  - 1881 – HEC Paris
  - 1896 – Chimie ParisTech
  - 1920 – Institut Optique Graduate School
  - 1942 – ENSAE ParisTech

# A LONG TRADITION OF SCIENTIFIC EXCELLENCE

*Ampère, Carnot, Cauchy, Coriolis, Fourier, Fresnel, Gay-Lussac, Lagrange, Laplace, Poincaré, Poisson, ...*

- **Pierre & Marie Curie**, *Physics (Nobel)* - 1903
- **Henri Becquerel**, *Physics (Nobel)* - 1903
- **Henri Moissan**, *Chemistry (Nobel)* - 1906
- **Marie Curie**, *Chemistry (Nobel)* - 1911
- **Frédéric & Irène Joliot-Curie**, *Physics (Nobel)* - 1935
- **Laurent Schwartz**, *Mathematics (Fields Medal)* - 1950
- **Maurice Allais**, *Economics (Nobel)* - 1988
- **Pierre-Gilles de Gennes**, *Physics (Nobel)* - 1991
- **Georges Charpak**, *Physics (Nobel)* - 1992
- **Pierre-Louis Lions**, *Mathematics (Fields Medal)* - 1994
- **Alain Aspect**, *Physics (Wolf Prize)* - 2010
- **Jean Tirole**, *Economics (Nobel)* - 2014



- **12** Grandes Ecoles in Engineering and Management
- **20 000** students / **2 900** professors / **130** Research labs
- **200 000** alumni



# GRANDES ECOLES AND SPECIALTIES

												
<b>Mathematics &amp; applications</b>				●	●	●		●			●	●
<b>Information and communication sciences and technologies</b>						●		●		●	●	●
<b>Life sciences and engineering</b>	●							●				
<b>Earth sciences and environmental engineering</b>	●			●							●	
<b>Physics, optics</b>						●	●	●		●	●	●
<b>Chemistry</b>			●				●					
<b>Energy</b>		●				●					●	
<b>Material science, mechanics and mechanical engineering</b>		●	●	●		●	●	●			●	
<b>Economics and social sciences, management, statistics</b>	●				●			●	●		●	●
<b>Industrial engineering</b>		●		●		●					●	

# AGROPARISTECH

- Life Science, Biology, Animal Science, Food Science & Technology, Agronomy, Crop Science, Plant Protection, Forestry, Environmental Science & Engineering, Management of Environment, Mathematics & Modelling for Life Sciences



# ARTS ET MÉTIERS PARISTECH

- Mechanics, Materials, Manufacturing Processes, Fluids and Energy Systems, Design Industrialization, Decision Making, Risk



## CHIMIE PARISTECH

- Organic and Bioorganic Chemistry, Solid State Chemistry and Materials Science, Theoretical Chemistry, Nuclear Chemistry, Chemical and Process Engineering, Risk Management



ParisTech



# ÉCOLE DES PONTS PARISTECH

- Transportation, Civil & Environmental Engineering, Mathematics & Finance, Engineering mechanics & Materials Science, Industrial Engineering & Logistics, Town & country planning



## ENSAE PARISTECH

- Economics & Econometrics, Quantitative Economics & Finance, Statistics, Actuarial Science



## ENSTA PARISTECH

- **Transport** (Automotive & Railway, Maritime) / **Energy & Environment** (Nuclear, Offshore, Energetic Systems & Environment, Ocean & Climate) / **Engineering Mathematics & Engineering Physics** (Optimization, OR, Quantitative Finance, Modeling & Simulations) / **Industrial & Systems Engineering** (Robotics and Embedded Systems, Information Systems, Industrial Eng., Cyber-Physics)



## ESPCI PARISTECH

- Environmental chemistry, Organic synthesis Bioengineering and Biophysics, Optics, Acoustics and Imaging, Microfluidics and Soft Nanotechnology, Soft Matter and Complex Materials Engineering, Chemical Engineering, Fluid Mechanics, Microfluidics and Soft Nanotechnology



# ÉCOLE POLYTECHNIQUE

- Physics & Applied Physics, Engineering Mechanics, Computer Science, Mathematics & Applied Mathematics, Economics & Finance, Life Sciences



## INSTITUT D'OPTIQUE GRADUATE SCHOOL

- Physics of light and its interaction with matter, Mathematics, Electronics and computer science for signal and image processing, Ray optics and aberrations, Advanced wave optics, Instrumentation Optical system design, Imaging, Photometry, Detection, Lasers and electro-optics, non-linear optics, optical fibres, Detectors, Biophotonics, Nanophotonics, Space optics, Energy, Telecommunications with minors in technology and management of innovation



## MINES PARISTECH

- Major: Science and executive engineering, Minors: Applied mathematics, information technology, Control engineering and computer science, Computational Biology, Earth and environmental sciences, Materials sciences and engineering, Energy and chemical engineering, Economics and social sciences



# TELECOM PARISTECH

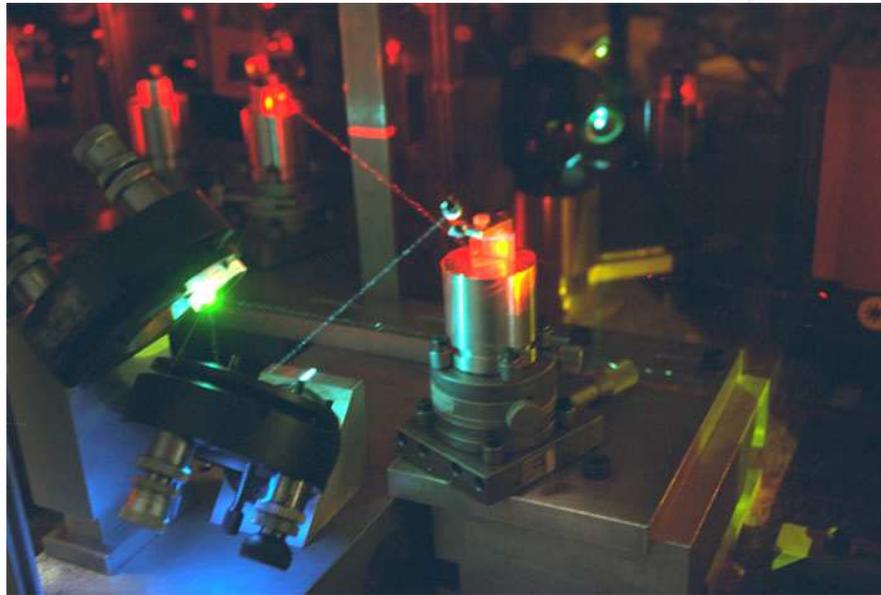
- Information Technology, Telecommunications, Digital & Mobile Communications, Optical Communications, Electronics Computer Science, Networks, Signal & Image Processing, Security, Economics, Digital Society



- HEC MIM Grande Ecole - Major: Alternative Management, Managerial and Financial Economics, Entrepreneurship, Finance, Financial Information, Auditing, Consulting, International Business, Managing New Technologies, Marketing, Media, Arts and Creation, Project Management, Public Management, Quantitative Economics and Finance, Research track, Strategic Management, Sustainable Development, Tax Strategy and International Double Degree, Law



## SCIENTIFIC EXCELLENCE



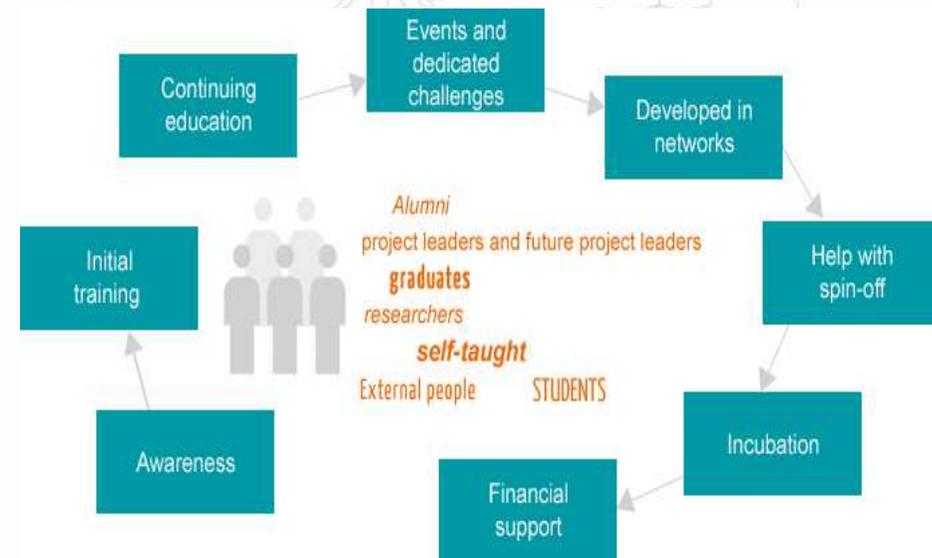
- 130 laboratories
  - 5000 research staff
  - More than 500 PhD theses defended every year
  - 18,000 publications along the last 5 years
  - 350 M€ budget for Research
    - ❖ More than 100 M€ in research contracts with industry
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- Research is the cornerstone of ParisTech and occupies a prominent place. It is characterized by a wide multi-disciplinary approach in Science and Technology, international quality and close relationships with industry, services and the socio-economic world.

# STRONG INTERACTION OF PARISTECH WITH COMPANIES

- Education
  - ❖ Lectures given by 2 900 engineers, researchers and managers
- Research
  - ❖ 71 chairs of teaching and research
  - ❖ 100 partner businesses
  - ❖ 1/3 of doctoral projects financed by companies
  - ❖ 2900 contracts with companies
- Entrepreneurship
- Executive Education
  - ❖ Nearly 25,000 participants of more than 80 nationalities per year
- Governance
  - ❖ Representatives of companies in the executive boards
- Examples of partnerships
  - ❖ VeDeCom – Institute of Excellence in Zero Carbon Energy
  - ❖ IMD – Sustainable Mobility Institute
  - ❖ Program of Nuclear Energy
  - ❖ Program Bioengineering

# ENTREPRENEURSHIP AND INNOVATION

- More than 700 innovative projects already incubated
- More than 80% of the incubated innovative companies reach the milestone of the first five years of existence, or will either have been bought or merged with another group.
- The entrepreneurship network
  - ❖ [Agoranov](#)
  - ❖ [ParisTech Entrepreneurs](#)
  - ❖ [Telecom ParisTech Eurécom Entrepreneurs](#)
  - ❖ [Incubateur du Centre Arts et Métiers ParisTech](#)
  - ❖ [Incubateur HEC](#)
  - ❖ [Pépinière X-Technologies](#)
  - ❖ [Pollen](#)
  - ❖ [Le 503](#), entrepreneurship center of Institut d'Optique Graduate School
  - ❖ [Incubateur Descartes](#)
  - ❖ [Incuballiance](#) (in partnership with the schools of Paris-Saclay)



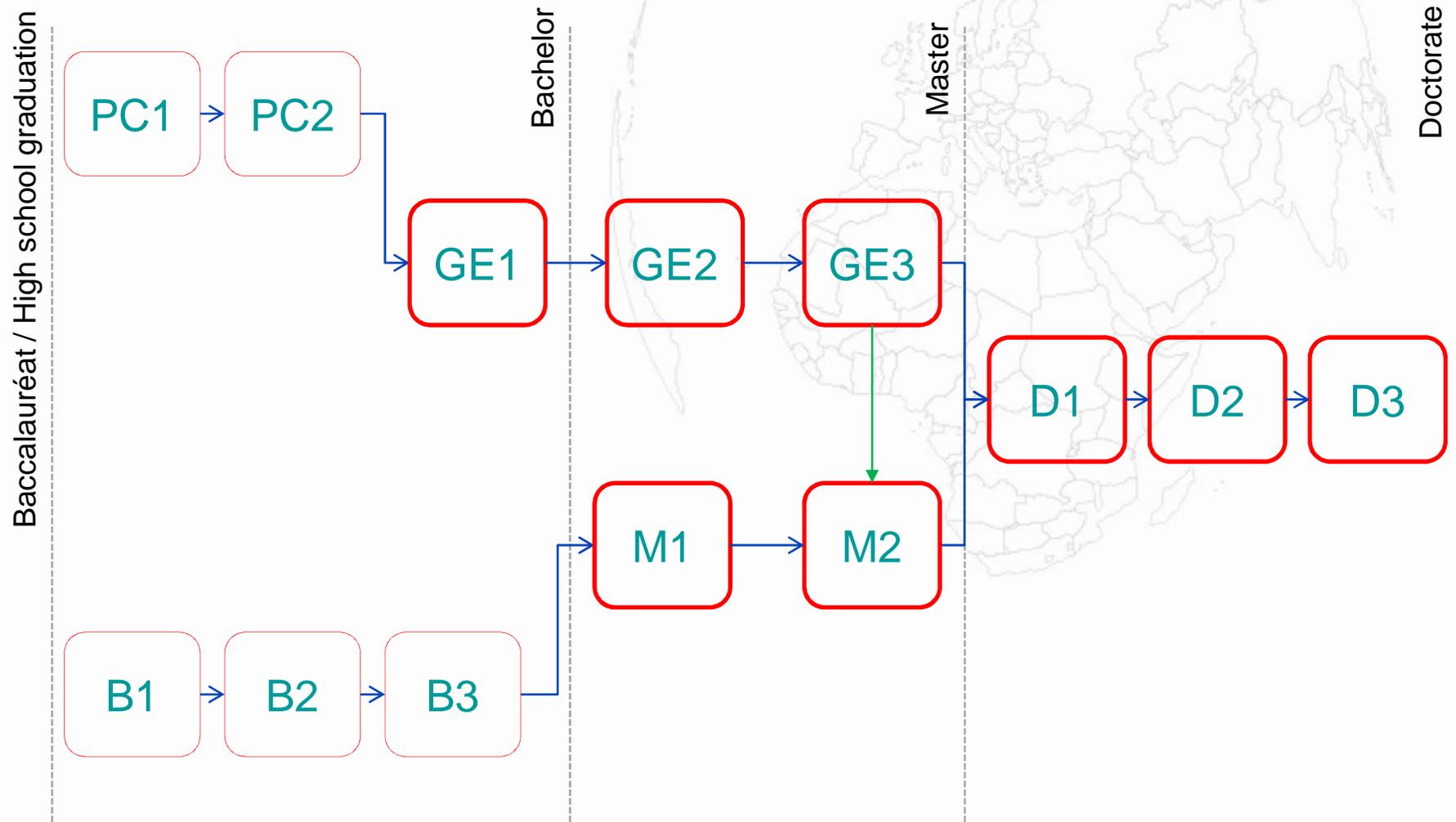
## PARISTECH DEGREES

- MSc in Engineering (Diplôme d'Ingénieur)  
MSc in Management (Diplôme Grande École)
- Master of Science
- Doctoral programs (PhD)
- MBA
- Advanced executive post-Master
- Professional training



During their studies in Grandes Écoles, the students follow courses in humanities, social sciences and management. With this large background, the graduates acquire the skills to become managers in companies or to become researchers.

# ORGANISATION OF STUDIES AT PARISTECH IN FRANCE



# PARISTECH AN INTERNATIONAL INSTITUTE

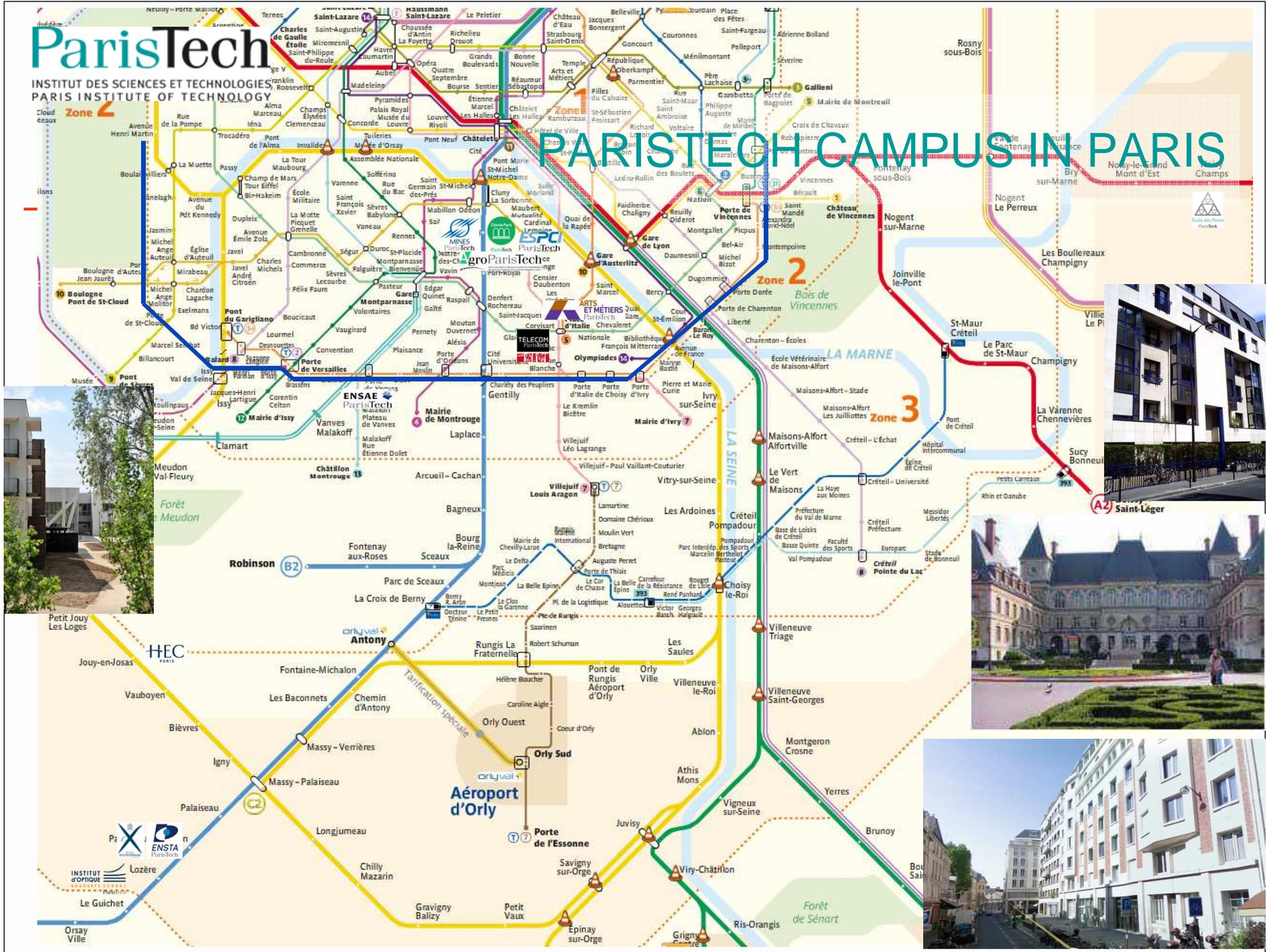
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- More than 30% of international students, from more than 100 countries
- Foreign language courses (French, English, Arabic, Chinese, German, Hebrew, Italian, Japanese, Portuguese, Russian, Spanish, etc...)
- International exposure: internships, projects, exchanges & double degrees
- More than 85 agreements with international universities and institutes
- International and European exchange programs (ATHENS)
- Major involvement in European and international research projects
- Offices in China and Brazil
- Overseas campuses in China :
  - ❖ Sino-French Institute of Engineering and Management (IFCIM)
  - ❖ China-EU Institute for Clean and Renewable Energy (ICARE)
  - ❖ SJTU-ParisTech Elite Institute of Technology

# ParisTech

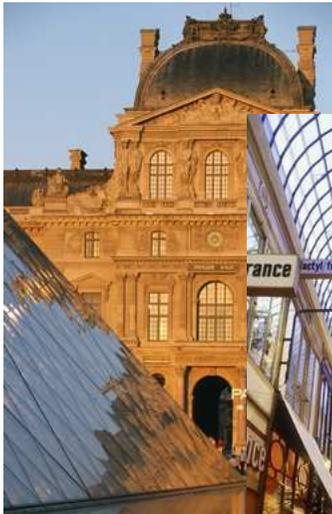
INSTITUT DES SCIENCES ET TECHNOLOGIES  
PARIS INSTITUTE OF TECHNOLOGY

# PARISTECH CAMPUS IN PARIS



# BESIDES THE QUALITY OF EDUCATION... A TOURISTIC DESTINATION!

- 1st touristic destination in the world !



- **Union ParisTech**, Student association of the 12 schools;
- **Association Sportive ParisTech**, Sport association
- **ParisTech Alumni**, network of alumni of the 12 schools : 200 000 alumni
- **Les Arts en Scène**
- **La Nuit ParisTech**
- **Défi Voile ParisTech**



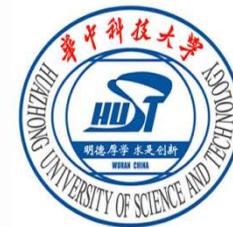
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# « 9 + 9 » PROGRAMME



Number of students admitted since 2000: 1077

北京大学 112	南京大学 159	复旦大学 198	浙江大学 36
清华大学 86	东南大学 68	上海交通大学 194	武汉大学 21
中国农业大学 20	南京农业大学 36	同济大学 145	华中科技大学 7



Living cost in Paris: **about 800 € / month**

In 2012-2013, 90% of admitted students needing financial assistance have been awarded a scholarship

## ■ Government Scholarships

### ➤ Eiffel Scholarships

Offered by French Ministry of Foreign Affairs Ministry **(1200 € / month)**

Applied by ParisTech for its admitted students

**19 students in 2012-2013**

### ➤ CSC - Chinese Scholarship Council

Offered by Chinese Ministry of Education **(1200 € / month)**

Applied by the students themselves in the website

**25 students in 2012-2013**

### ➤ France Excellence – French Embassy **(750 € / month)**

**8 students in 2012-2013**

## ■ Company or Alumni Scholarships

Applied by ParisTech, benefiting from its good relations with French Companies.

Several Schools of ParisTech will offer the Scholarships for all the admitted students,

**(about 900 € / month).**

## CHINA SCHOLARSHIP COUNCIL (CSC)

- Agreement signed in 2011 between ParisTech and CSC to create a doctoral program in France funded by CSC
- Agreement signed in 2015 between ParisTech and CSC for the « 9 + 9 » program, including the 18 double degree programs



May 15, 2015

Signature of the agreement ParisTech-CSC for the « 9 + 9 » program during the 2nd session of the high-level dialogue on human exchanges between France and China chaired by **Laurent Fabius**, Minister of Foreign Affairs & International Development, and **LIU Yandong**, Vice Premier

# General Admission Process



## Preparation of arrival

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**November 2015:** Admission Result

**December 2015 to June 2016:**

- Complete Chinese Bachelor degree
- Learn French
- Apply for Scholarships
- Apply for French visa

**July 2016 :** Arrival in France

**July 2016 to August 2016 :** Intensive French training in France

**September 2016 :** Enter French « Grandes Ecoles »  
for 2 (or 3) years' studies



***More information :***

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