

Partnerships for Excellence in China

**ARTS
ET
MÉTIERES**

IMAGINE THE FUTURE

*The Engineers
for the Industry of the Future*



ARTS ET METIERS PARISTECH

One of the oldest Engineering Schools in France

Major strengths in :

- MECHANICAL ENGINEERING
- INDUSTRIAL ENGINEERING
- ENERGY ENGINEERING



Founded in 1780 by the Duke of La Rochefoucauld Liancourt

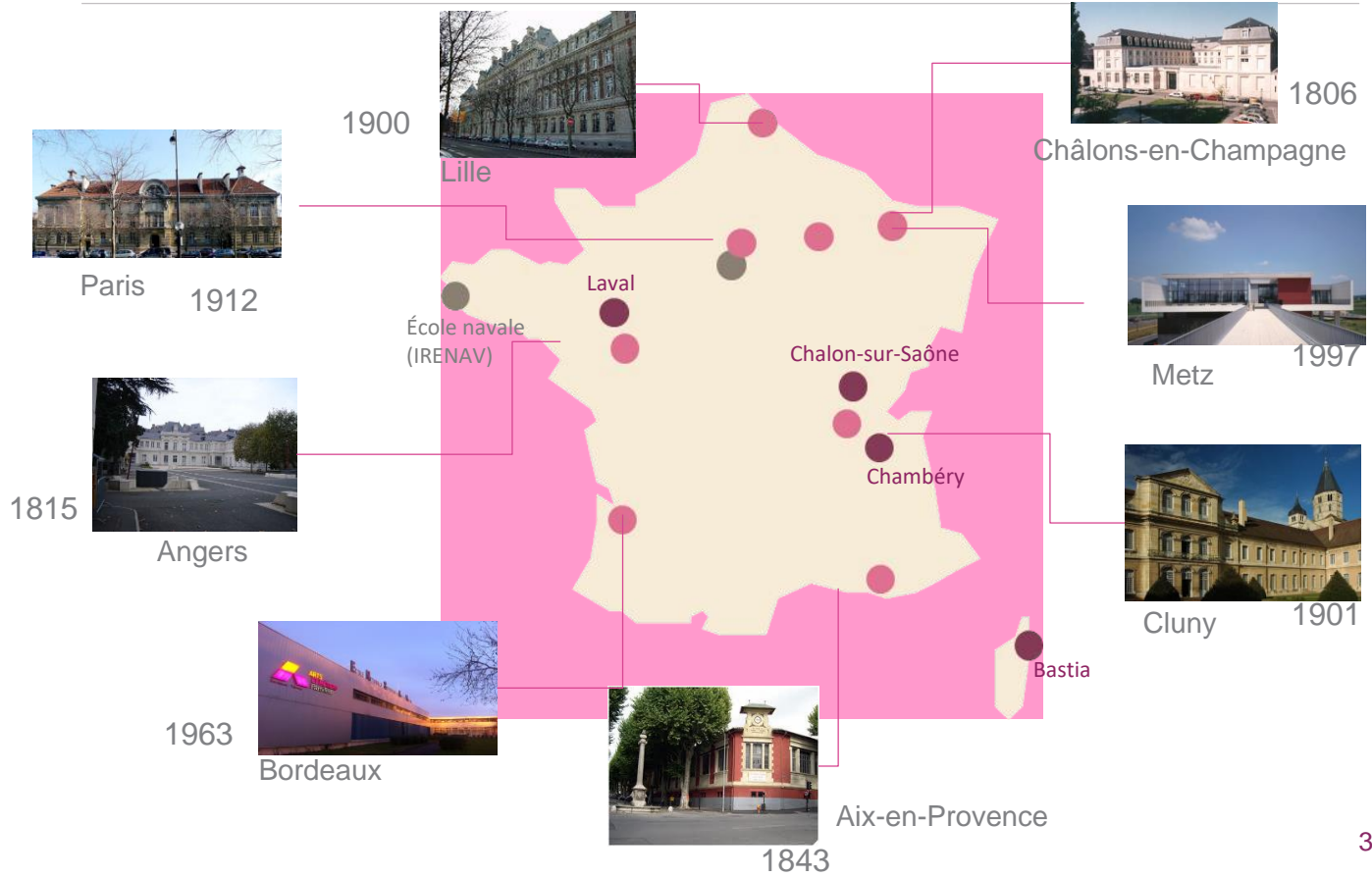
- ❖ 1100 staff (380 Full-time teaching and research staff)
- ❖ 300 : Lecturers from industry
- ❖ 15 research laboratories
- ❖ Renowned for its close industry links
- ❖ Ranked 1st in mechanical engineering
- ❖ Ranked 2nd for the number of start-ups
- ❖ Ranked 4th best Engineering School
- ❖ Biggest Engineering Alumni Association in Europe



12 locations around France: 8 campuses & 4 Research Institutes



**STRONG NATIONAL
PRESENCE IN
EDUCATION
RESEARCH &
INNOVATION**



1780

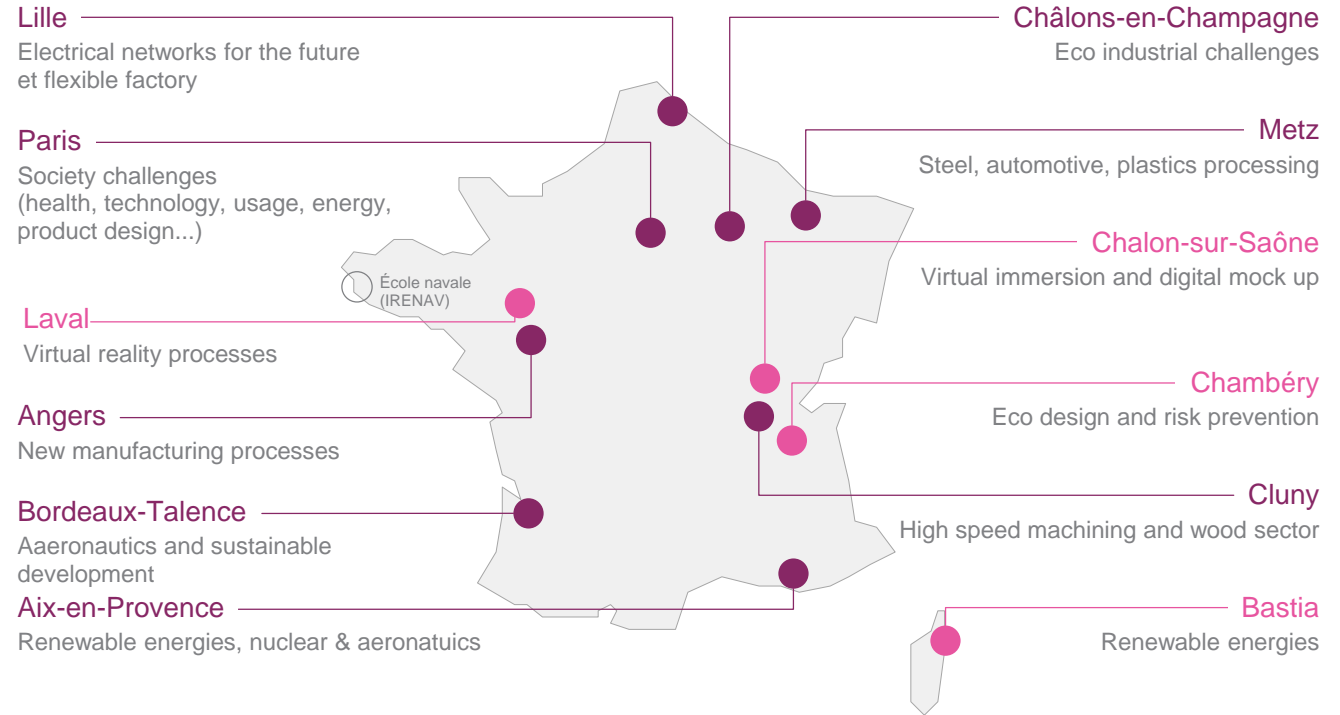
Creation of the School by the Duke De la Rochefoucauld-Liancourt

With **12 sites**, Arts et Métiers is close to the the economic players



**WIDE RANGE OF
SKILLS
THROUGHOUT
THE FRENCH
REGIONS**

- **CAMPUS & RESEARCH
INSTITUTES ARTS ET
MÉTIERIS PARISTECH**

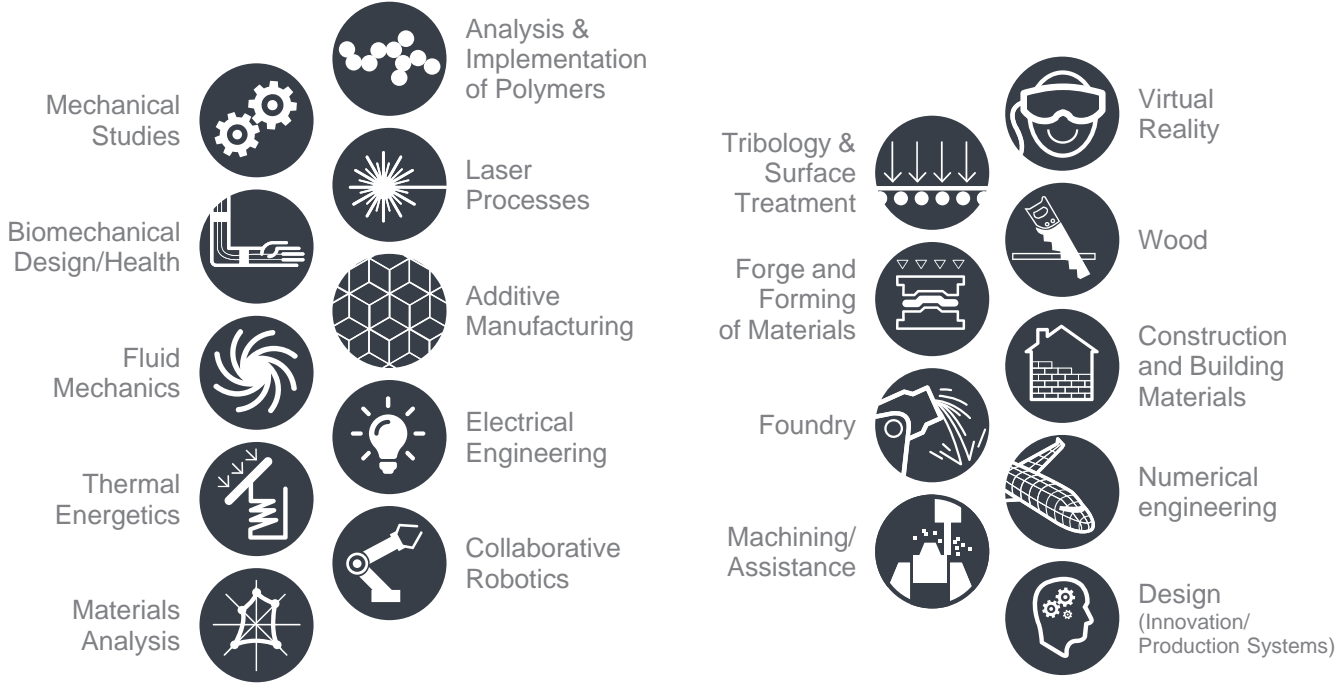


École navale
(IRENAV)

Activities of 15 laboratories gathered around 20 skills



MAIN SKILLS



15

laboratories

Arts et Métiers is a **unique School**



KEY FIGURES

1780

Creation of the School by the Duke
De la Rochefoucauld-Liancourt

5800 

STUDENTS
all Trainings included

1,100 

Faculty
Lecturers, Technicians &
Administrative Staff

15M€
OF EUROS
of revenues generated
by contracts with industry

220 

PHD STUDENTS
managed by the doctoral School
"Sciences des métiers
de l'ingénieur"

15 

LABORATORIES
and Research teams

EXECUTIVE EDUCATION

6 M€ **EUROS**

of revenues in 2013

480 **EXECUTIVE GRADUATES**

1 

BACHELOR OF TECHNOLOGY

10 

ENGINEERS TRAINING

1 Generalist et **9** Specialized

more than

20 

MASTERS OF RESEARCH

17 

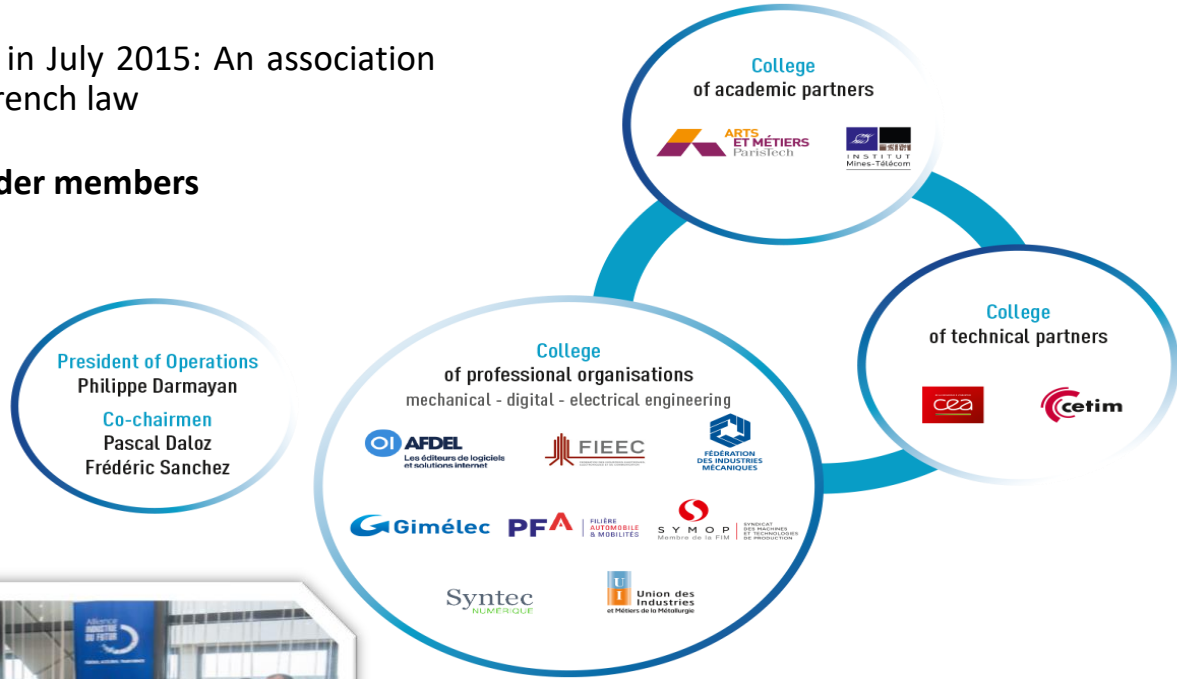
MBA & Executive masters programs



INDUSTRY OF THE FUTURE ALLIANCE

ENSAM IS ONE OF THE 2 ENGINEERING INSTITUTES FOUNDER MEMBERS OF THE ALLIANCE OF THE INDUSTRY OF THE FUTURE (FRENCH PLAN SIMILAR TO “MADE IN CHINA 2025”)

- ◆ Created in July 2015: An association under French law
- ◆ 11 founder members



President of Operations
Philippe Darmayan

Co-chairmen
Pascal Daloz
Frédéric Sanchez



23 partners, rallying around a common ambition



**THE DOUBLE DEGREE
PROGRAM BETWEEN
ENSAM AND
CHINESE UNIVERSITIES**

IS LISTED BY

**CHINESE MINISTRY OF
INDUSTRY AND
INFORMATION
TECHNOLOGY (MIIT)**

**AS ONE OF THE
KEY-PROJECTS OF
COOPERATION
BETWEEN
FRANCE AND CHINA**

FOR

**“INDUSTRY OF THE
FUTURE” / “MADE IN
CHINA 2025”**



France Industry of the Future / Made in China 2025

**Signature of cooperation agreement
between France and China in Beijing on March 2017**



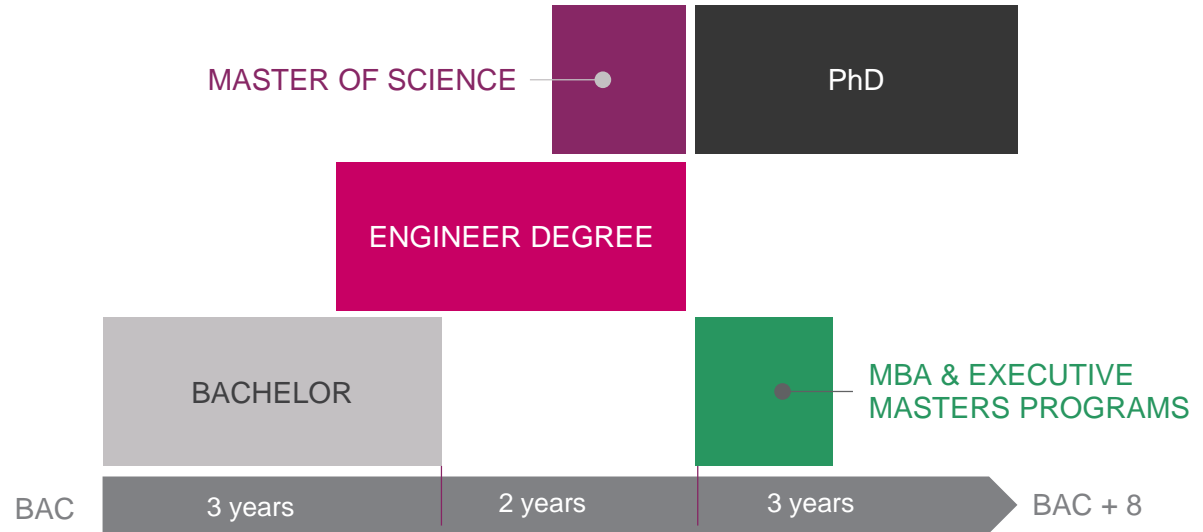
EDUCATION

5,800

students
at Arts et Métiers

The School offers training for all :
undergraduate, graduate and executive education

Arts et Métiers ambitions:
to address the needs of industrial companies in all economic sectors



MSc Programs

1st year core courses*

Mechanical Engineering

Material & Engng Sc
Mechanics & Energetics
Adv Syst & Robotics
Mech & Material Engng
Surfaces & Material Engng
Plasma & Fusion

Industrial Engineering

Innovation, design and engng
Virtual Engng & Innovation
Decision Sc & Risk Managnt
Information & System Sc. Knowledge
Integration in Mech. & Prod.

Energy Engineering

Energetics & Environment
Fluid Mechanics
Electrical Energy & Sustainable Dev.
Naval Engineering
Mech. Sc & Engineering

Health Engineering

Bio Material
Molec & Cell. Biotherapies
Bio-engineering & Innov. In Neurosciences
Bio Imaging
Bio Mechanics

* mechanics, energetic systems, mathematics, computer science, communication, management and organization, Research project in laboratory Internship in industry, Intensive French language & culture courses



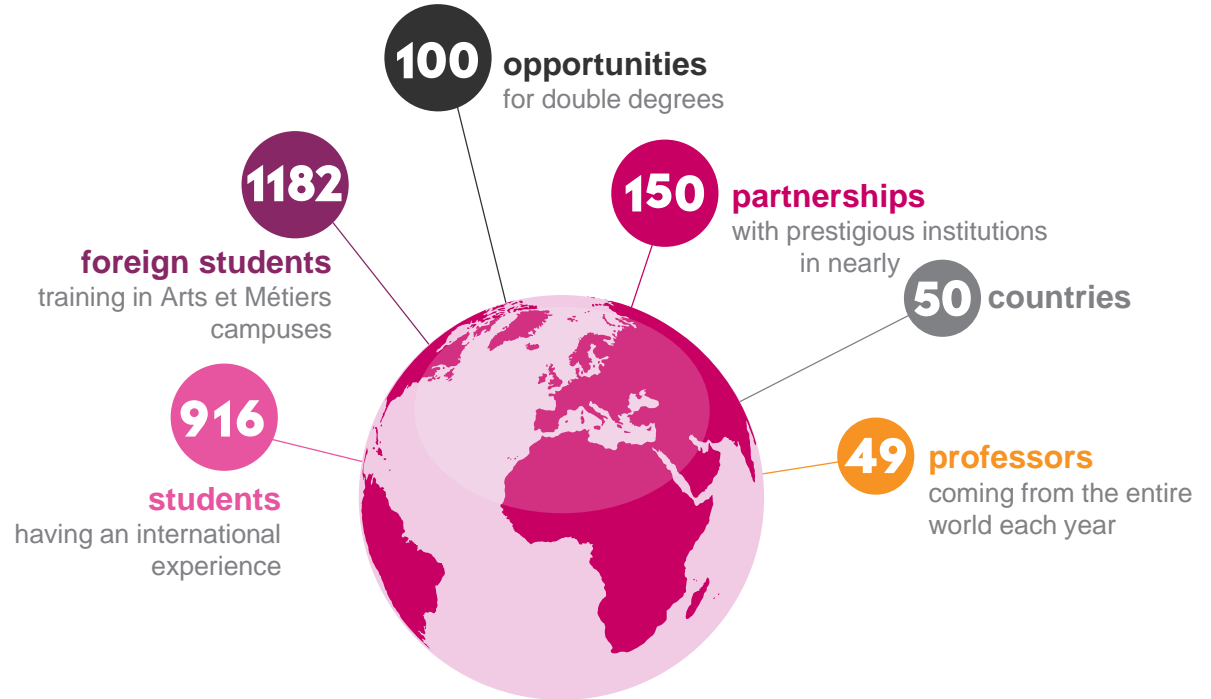
INTERNATIONAL



490

students graduate
with a dual degree from Arts et
Métiers & Partner university

Our international partnerships are targeting **Education, Research, Innovation** and **Technology transfer**



Partnerships in China



Arts et Metiers in China

• OUR OBJECTIVES

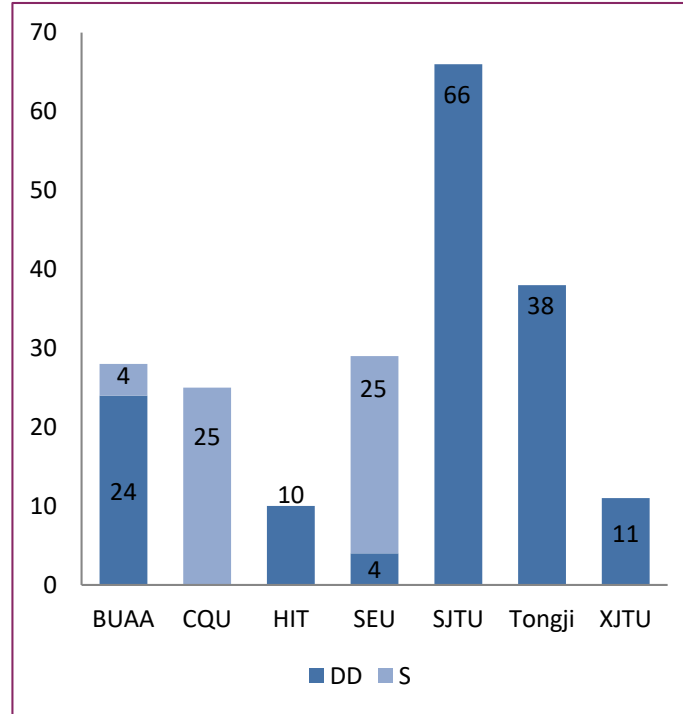
We aim to :

- **Train tomorrow's global engineers in technological, scientific, entrepreneurial and intercultural skills**
 - Increase students exchanges in both directions
 - Attractivity of programmes in partnership with companies
- **Reinforce partnerships with strategic university partners in education and research**
 - Encourage the development of joint research projects
 - Organise joint workshops/seminars
 - Develop funding programmes to facilitate the exchange of researchers
- **Accompany French and Chinese industry within the framework of "Industry of the Future" / "Made in China 2025"**
 - Identify common projects in research & education in collaboration with industry

**PARTNERSHIPS
IN CHINA
SINCE 2009**
(BEGINNING OF THE
DOUBLE DEGREE
PROGRAM)

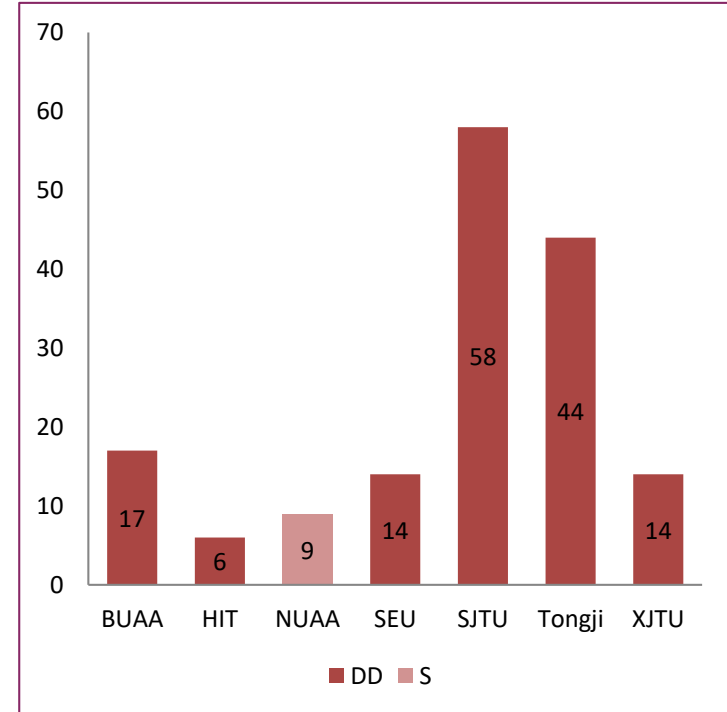
Exchange Flows (2009-2017)

France to China:
207 Students



- 153 DD students
- 54 Exchange semesters

China to France
162 Students



- 153 DD students
- 9 Exchange semesters

CHINESE PHD STUDENTS

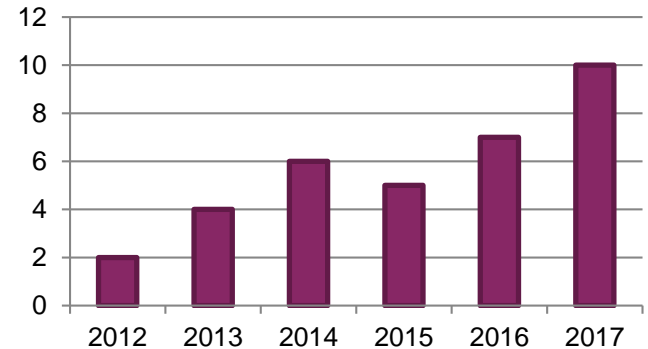
CSC PROGRAM

PhD Program

34 PhD Students in 6 years

University	N. Of PhD
TONGJI	5
SJTU	2
BEIHANG	6
TSINGHUA	1
SEU	3
NUAA	4
XJTU	2
Others	11

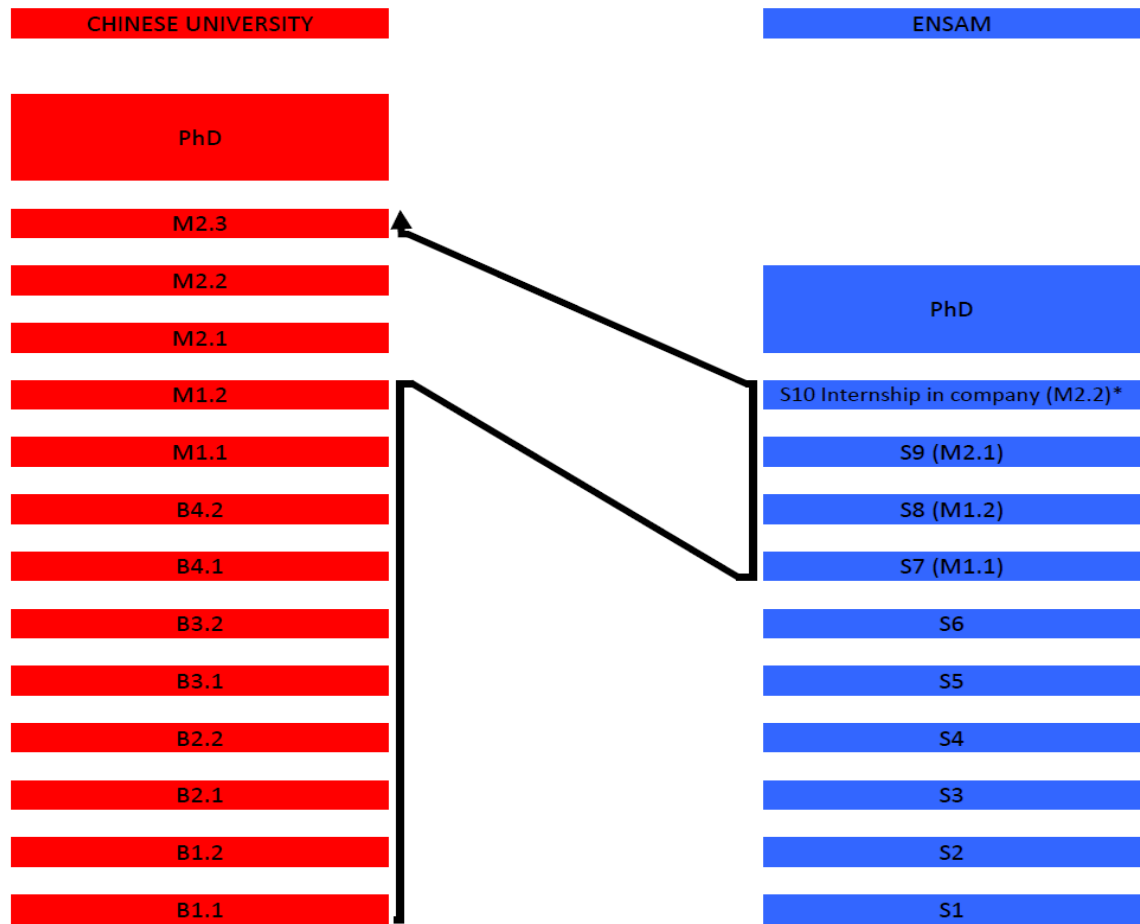
Number of PhD Student admission for CSC program



2 Co-supervisions PhD Thesis with Tongji

12 other Chinese PhD students with French Scholarship (2012-2016)

**DOUBLE-DEGREE
PROGRAM
with
Chinese Universities**
“Industry oriented”



* 6 months in France, in China or in another country

**DOUBLE-DEGREE
PROGRAM**
with
Chinese Universities

“Industry oriented”

**Study program
at ENSAM**

1st year courses

Mechanical Engineering

Industrial Engineering

Energy Engineering

Mathematics
Computer Science

Communication
Management & Organization

Intensive French Language &
Culture

Research Projects in
Laboratory

2nd year

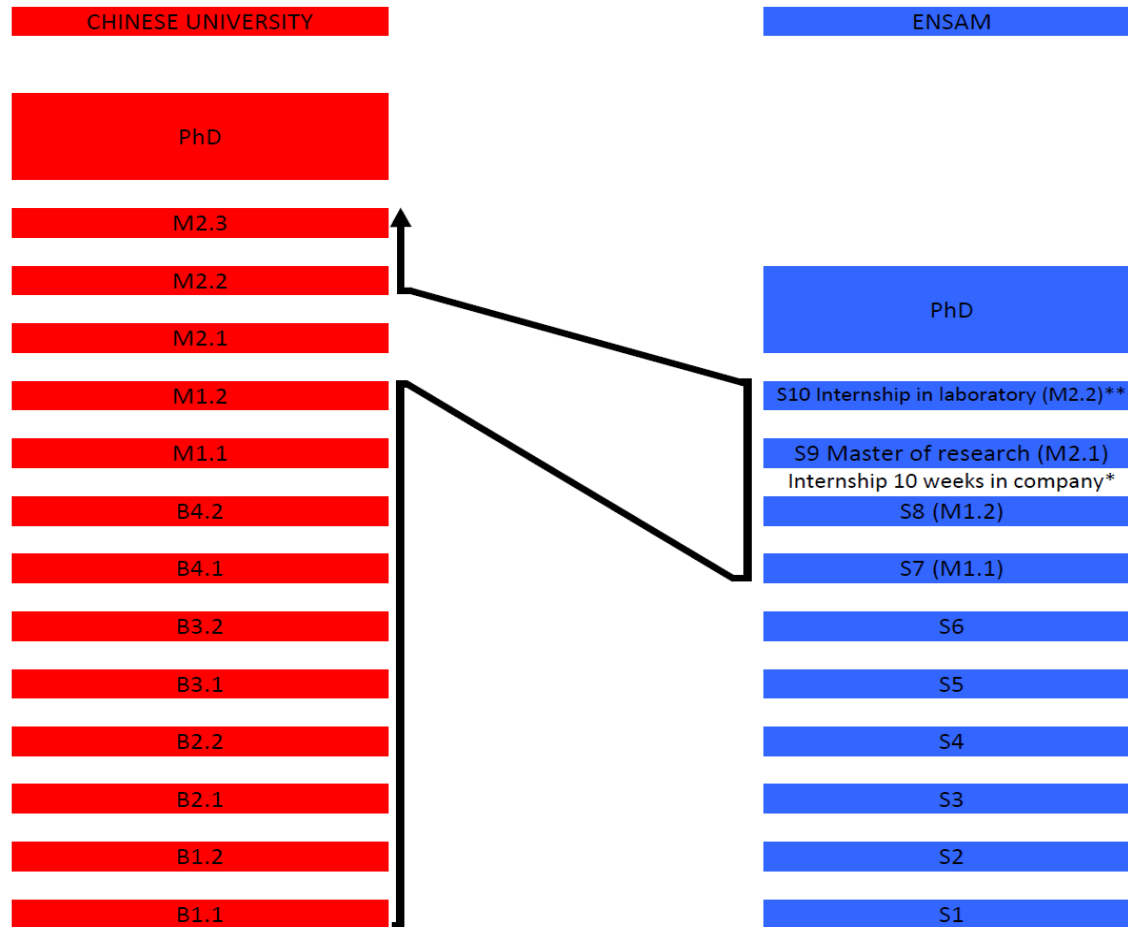
1st semester

Expertise courses
Logistics
Strategic Management
The Engineer and the World
Research Project in Lab

2nd semester

Internship in company
(in France or in China or in
another country)
supervised by ENSAM
(report and oral defense)

**DOUBLE-DEGREE
PROGRAM
with
Chinese Universities**
“Research oriented”



* 10 weeks in France

** One semester in France or in China

**DOUBLE-DEGREE
PROGRAM**
with
Chinese Universities

“Research oriented”

**Study program
at ENSAM**

1st year courses

Mechanical Engineering

Industrial Engineering

Energy Engineering

Mathematics
Computer Science

Communication
Management & Organization

Intensive French Language &
Culture

Research Projects in
Laboratory

2nd year

1st semester

Master of Science courses
Research Project in Lab

Internship in Company
in France
(10 weeks minimum)

2nd semester

Internship in Laboratory
(in France or in China or in
another country)

**DOUBLE-DEGREE
PROGRAM**
with
Chinese Universities
Application process

Beginning of Bachelor 4:

- Selection of candidates by Chinese universities among their students selected for master's studies without national examination.
- Pre-selection process by ENSAM through pre-application form to fulfill before the end of October followed by an interview by ENSAM professors in November.

Beginning of Master 1:

- Selection of candidates by Chinese universities among their Master 1 students (those pre-selected in Bachelor 4 and also other Master 1 students interested in the program).
- Selection process by ENSAM through application form to fulfill before the end of October followed by an interview by ENSAM professors in November.

January (Master 1 year): confirmation of selection by ENSAM jury

February: sending of pre-invitation letter by ENSAM for CSC scholarship application process

Languages minimum requirements before going to France*:

English B2 (TOEFL, IELTS...) + French B1 (TEF, TCF, DELF)

Or

French B2 (TCF, TEF, DELF)

May-June: sending of invitation letter by ENSAM for visa application

End of August: departure for France

* Languages minimum requirements for ENSAM degree: English B2 + French B2

Welcoming Dinner by Arts et Métiers Alumni in Shanghai for the Chinese Students before their Departure for France



Arrival in France: Welcome by Arts et Métiers Alumni at Paris Airport



Arrival at ENSAM: Welcome by Arts et Métiers Staff, Students and Alumni



Alliance
INDUSTRIE
DU FUTUR



INSTITUT
CARNOT
ARTS



hautes études
Sorbonne
arts et métiers

héSam

établissement
public
de coopération
scientifique



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