ARTS ET METIERS PARISTECH Graduate School of Engineering

Partnerships for Excellence in China



Arts et Métiers ParisTech: 1st ranked French Graduate School in Mechanical Engineering



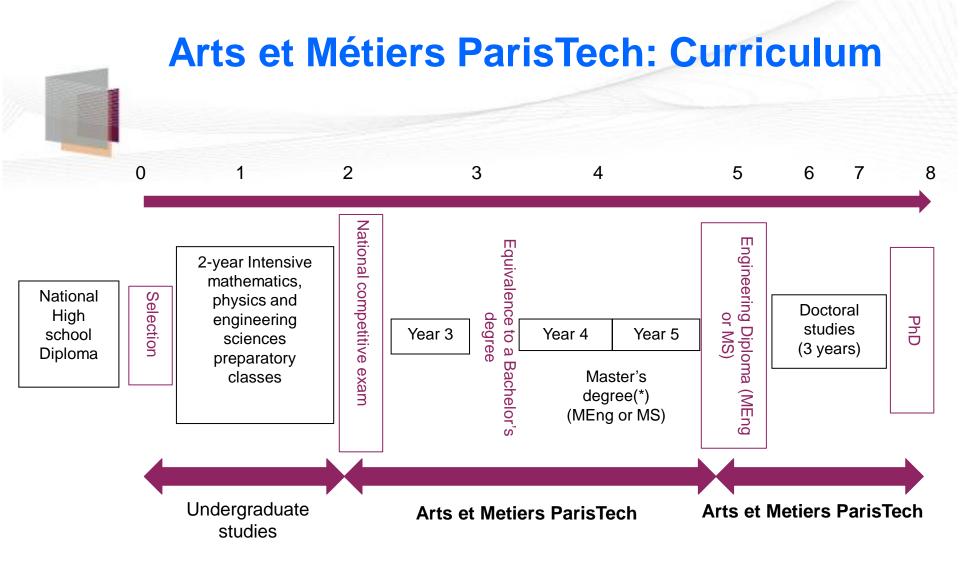
Key figures

- 5,700 students
- 1,000 graduate engineers per year
- 500 other degrees (including 250 PhD's)
- 380 full-time faculty
- 300 industrial lecturers
- 30,000 alumni
- 8 campuses all over France (research and education) and 3 research institutes

Background

- 1780: founded by the Duke La Rochefoucauld Liancourt
- 2008: ENSAM becomes "Arts et Métiers ParisTech"





(*) About 60% of total enrolled students graduate with an MEng



Arts et Métiers ParisTech: Research

Design, Innovation, Risk, Decision Department

85 Faculty members and 80 PhD students

Research topics:

- Process design and innovation, new concepts and trends, ecodesign
- Preliminary design: product concept record, reduced models, architectures of specific products
- Industrial engineering methods and tools
- Virtual Immersion: geometric modeling, human-machine interface for digital mockup
- Mechanics and Design
- Intelligent Products
- Management of production systems, Lean manufacturing
- Risk management

Fluids and Energy Systems Department

75 Faculty members and 50 PhD students

Research topics:

- Characterization of physical phenomena with the development of dedicated instrumentation devices and associated methodologies
- Development of fluids mechanics
 models
- Development of controlled law of components (energy conversion systems) and supervision of large power systems (power grids).
- Design of energy conversion systems (turbomachineries, electrical machines...)

Mechanics, Materials and Processing Technologies Department

140 Faculty members and 120 PhD students

Research topics:

- Manufacturing and Industrial Processes (squeezecasting, hot isostatics compression, thixoforming, rheocasting, laser manufacturing)
- Experimental studies on Materials
- Mechanical experimental studies on specific tooling (titane machining, belt grinding, high speed drilling, wood machining)
- Characterization of Material and Surfaces/ Sub-Surfaces (strain and deformation in a grain, analysis by X diffraction, strains analysis by X rays diffraction, topological characterization of surfaces)
- Thermo-mechanical characterization
- Biomechanics (musculoskeletal modeling, impact mechanics, nervous system modeling and movement restoration)



Arts et Métiers ParisTech: China Project

Balanced exchanges: As many French students and professors in China as Chinese students and professors in France each year

Double degree program Master's projects (one semester exchange) Co-guided PhDs Visiting professors Joint masters programs Joint laboratories Research projects in common Workshops Strong links with companies Arts et Métiers ParisTech

Talented and multicultural human resources for a sustainable future

Best Chinese Universities

> Research projects Joint laboratories Internships Workshops Human resources recruitment Continuing education Financial support

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Companies



Arts et Métiers ParisTech: Partnerships in China

Partner Universities

BEIHANG, CQU, HIT, NUAA, NWPU, SDU, SEU, SJTU, TONGJI, TSINGHUA, UESTC, XJTU and in the next future: HUST, ZJU...

Balanced exchanges of students at Master and PhD level (short and long term) aimed to develop strong research links

between Arts et Métiers ParisTech and its Chinese Partner Universities

Short term (1 semester)

Exchange of students for research projects co-guided between French and Chinese key-labs

Long term: double degree

(3 semesters (courses + research project) + internship in company)

Since 2008: 6 double degree agreements with SJTU, TONGJI, BEIHANG, HIT, XJTU and SEU

Long term: co-guided PhDs

Since 2012: co-guided PhD subjects proposed to all Chinese Partner Universities

Visiting professors

In 2011: 8 visiting professors from Chinese Partner Universities invited for a one-month stay at Arts et Métiers ParisTech for courses and research

Worshops

April 2012: 1st workshop on Materials Sciences with SJTU organized in Paris

Arts et Métiers ParisTech: Double Master Degree in China

Excellence exchange program at master level

- 2 degrees

Arts et Métiers ParisTech Engineer Diploma + Chinese University Master Degree

- Scheme

M1 at home institution

M2 abroad: 3 semesters (including master's thesis) + internship in company

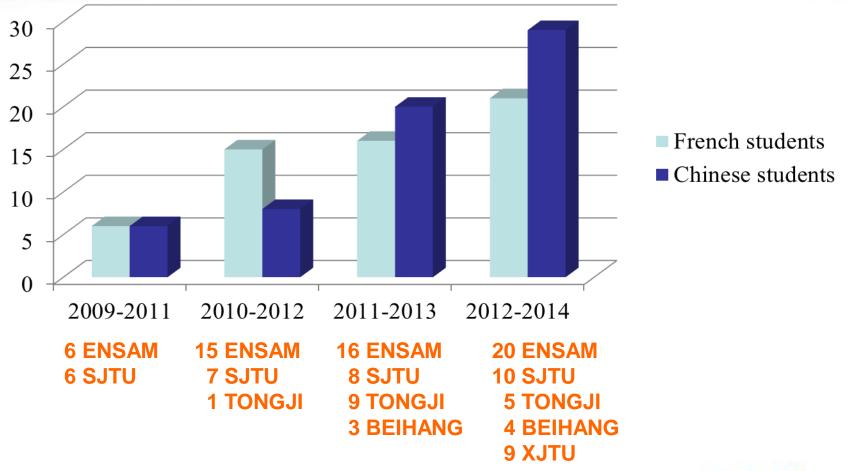


Cursus for the Chinese students





Since 2008: 6 double degree agreements (Arts et Métiers ParisTech Engineer Diploma – Chinese University Master Degree) signed in China with SJTU, TONGJI, BEIHANG, HIT, XJTU and SEU











Yvon VELOT – 20121104

Succeed in France Package in Kunming for the Chinese Students just before their courses at Arts et Métiers ParisTech



Yvon VELOT - 20121104

Welcoming Dinner by Arts et Métiers ParisTech Alumni in Shanghai for the Chinese Students before their Departure for France (June 2011)





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













Angers Campus: 3-week cultural and pedagogical internship before the beginning of the courses









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Application process for the double degree

September-October:

Preselection by home university: At the beginning of Bachelor 4 among the students selected directly for the master studies without taking the Master's national examination

At the end of October:

List of candidates and application forms with relevant documents for Bachelor 4 students and updated application forms with relevant documents for Master 1 students (preselected the year before) send by home university to ENSAM

At the end of November:

Interview of the students (Bachelor 4 and Master 1) by ENSAM professors

French language requirements: TEF 450 or TCF 400 in May of Master 1

Fees:

Tuition fees paid at home university (no tuition fees abroad) Living expenses in France: around 600 € per month

Scholarships:

December: Eiffel scholarships (application by ENSAM for the best candidates) March: CSC scholarships (application by Chinese students at home university) April: « Pays de la Loire » scholarships (application by ENSAM) May: Arts et Métiers ParisTech Foundation scholarships (application by ENSAM) Other scholarships: Companies, French Embassy...



Welcome at Arts et Métiers ParisTech!



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