

ParisTech



PARISTECH – CSC PHD PROGRAM

NOVEMBER 14, 2024

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3. Research in ParisTech's schools	Excellence in research
	Research domains
	Arts et Métiers Sciences et Technologies
	Chimie ParisTech – PSL
	ESPCI – PSL
	Discussion in separate rooms



Webinar GUESTS



Arts et Métiers Sciences et Technologies – **Mohamed BEN BETTAIEB**, scientific advisor.

Arts et Métiers Sciences et Technologies points of contact (topics) - Marie BEDEL, Meriem BEN SAADA, Mohamed EL MANSOURI, Alaa HASSAN, Kenza AMZIL, Nicolas MARANZANA, José HIDALGO, Tommaso CAPURSO, Samir GARBAYA, Mohamed JEBAH, Jean Camille.



Chimie ParisTech – PSL – Ilaria CIOFINI, VP Research –

Note: Her presentation will start at 1pm in room 5.

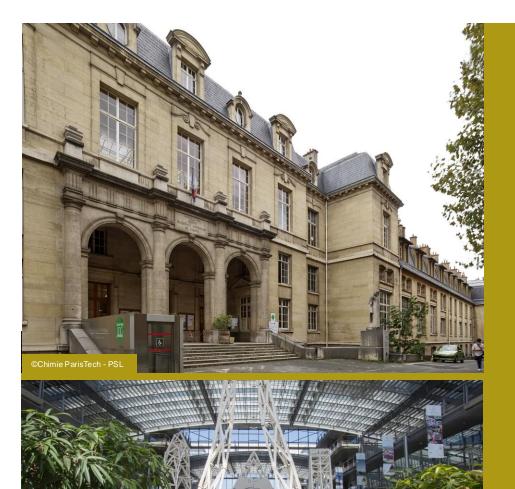
Chimie ParisTech- PSL point of contact (topics) Anne Varenne, Fanny d'Orlye, BT Doan, Cyrine Slim, Davide Avagliano



ESPCI Paris – PSL – Institut Langevin : Xiaoping JIA

ESPCI Paris – PSL – point of contact (topics) Sylvain Patinet



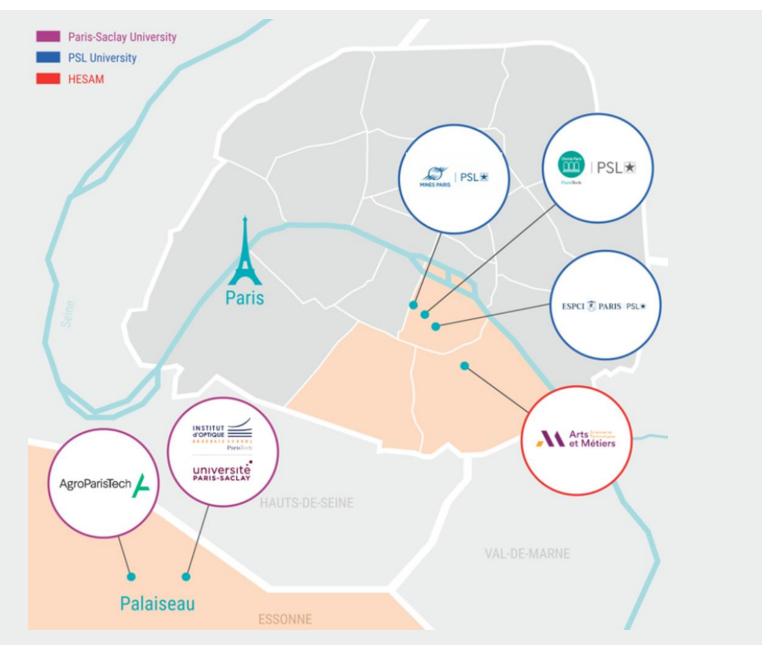


1. ParisTech introduction



GRADUATE SCHOOLS IN PARIS

CAMPUSES IN PARIS AREA





ParisTech's network key figures





80 research laboratories



70 international agreements



1 550 PhD candidates



39 % of women



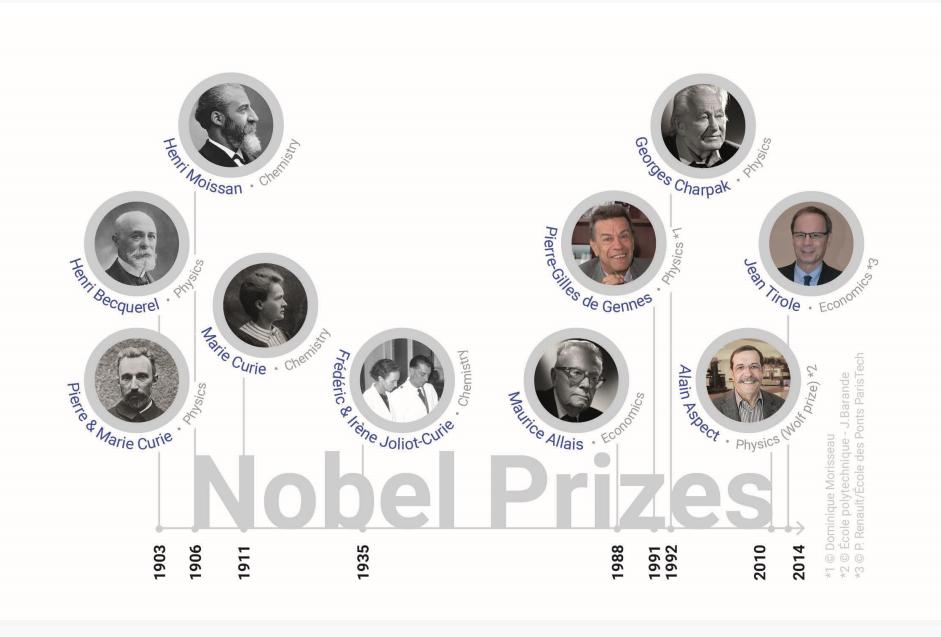


100
entrepreneurs
in the last 3 years











Why choose France?



Excellence in S&T and business





7th economic power in the world

- R&D spending = 2.35% of GDP
- International company leaders in their sector (materials, building, cosmetics, energy, transport...)
- Paris area: a dynamic region (a lot of companies, high employability rate, numerous R&D centers)
- A nation of entrepreneurs: 3.5 days to create a business in France

Excellence of the Higher Education system

- 45th destination in the world for international students
- Scholarships and support for international mobility
- A lot of international academic partners
- Tuition fees lower than in most of the Western countries

A S&T leader worldwide

- The country of mathematicians (Viète, Laplace, Cauchy, Poincaré, Louis Bachelier...)
- Excellence in a lot of domains, e.g. chemistry, civil engineering, physics (Marie & Pierre Curie, Ampère, Laplace, Freyssinet, Coriolis, Fourier...)
- 75 Nobel prizes and 13 Fields Medals
- World famous research organizations (CNRS, INRAE, INSERM, CEA...)



A country of culture







Tradition / Art & History / Quality of Life

- Arts (museums, movies, literature, philosophy...)
- Romantism, impressionism, surrealism...
- Food

Values

- Freedom, equality, brotherhood
- Inclusion
- Cosmopolitanism
- Critical thinking, strong attachment to sciences and innovation
- A key role in ecological transition and climate change

French language

- Official language of more than 300 million people (5th in the world)
- 3th most important language for business in the world after English and Mandarin Chinese

What international students are saying

- 9 out of 10 international students recommend France as first study destination
- 93 % believe that studying in France has been a self-enrichment
- 86 % believe that studying in France have highlighted their university curriculum





2. ParisTech – CSC PhD program



Applicant's Profile



Prerequisites

Find all relevant information on:



Applicants must be citizens of the People's Republic of China at the time of application.

Applicants should not hold a foreign permanent residence permit. Applicants should be at least 18 years old at the time of application.

STUDYING IN CHINA

- At final year of Master degree
- In the 1st PhD year, recommended by your home university (for cosupervised PhD)

STUDYING IN FRANCE (OR IN ONE OF THE 42 PARTNER COUNTRIES OF THE CSC)

- Second/Last year Master's (M2) students or students graduated within less than a year at the time of application for the CSC scholarship.
- Applicants who have studied for a "Diplôme d'ingénieur" in France, and especially those who have received funding from the <u>CSC - ParisTech</u> <u>"9+9" Program</u> project are also encouraged to apply to this PhD program.

WORKING

You are a master holder and you work in a company that agrees with your PhD project



Prerequisites:

Excellence, for a highly-selective competition

- You have excellent academic records, especially in the relevant discipline.
- You should have **good command of written and spoken English.**
- You should have a coherent personal and professional plan.
- You are willing to learn minimal French for basic communication.



Tips

- Learn as much as you can about the labs, the PhD advisors, their past and present work.
- Carefully select PhD proposals that are relevant with your personal profile.
- Then build a coherent, clear professional plan around the information you gather.



The CSC scholarship – funding scheme

• 1350€ / month (for the duration specified on your admission letter, starting when you arrive in France) + one-time round-trip international travel expenses by the most economical route

- Duration :
 - 36-48 months for full PhD
 - 6-24 months for co-supervised PhD
- You are committed to go back to China at then end of your PhD (exceptions to be found on the CSC website).



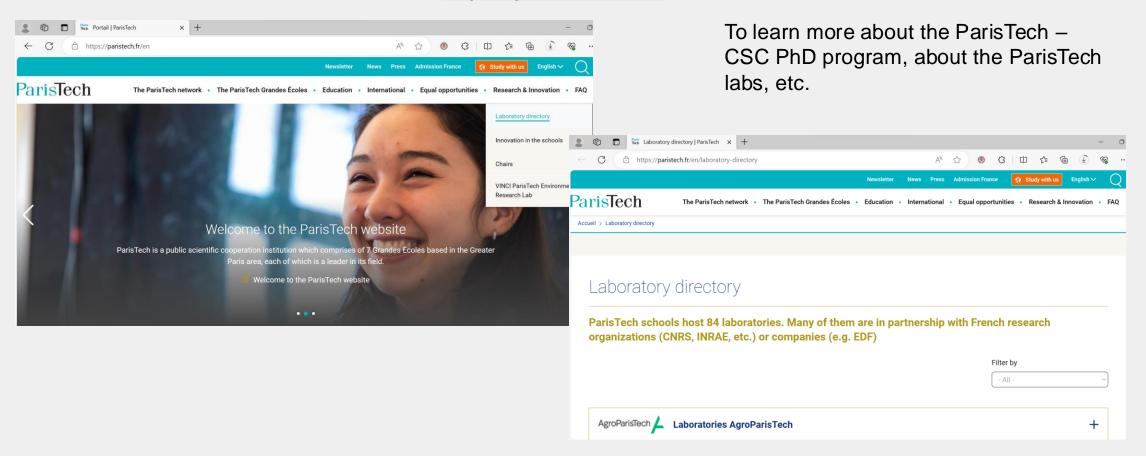
Calendar & Steps



Where to find relevant information?

PARISTECH WEBSITES

https://paristech.fr/en





2024-2025 Campaign

16 RESEARCH LABS

55 PHD PROPOSALS

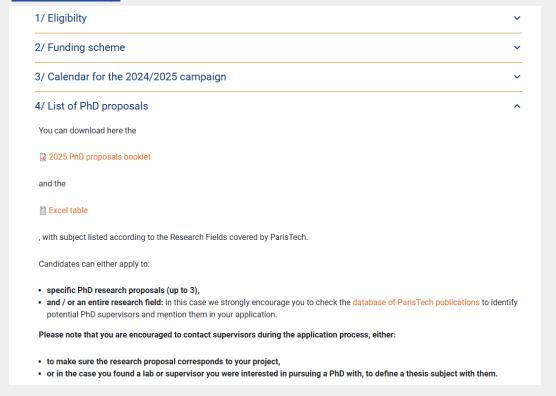


FIELDS OF ENGINEERING

10 CITIES IN FRANCE

You can check them on the excel table, or download them all here:

https://paristech.fr/fr/paristech-csc-phd-program-how-apply





Where to get relevant information?

PARISTECH SOCIAL MEDIA ACCOUNTS

For videos, information on research and innovation in ParisTech schools...

A C C C O O B U A N L T S

C C C C O U N T S E

LinkedIn



Instagram



Twitter



Facebook



YouTube



LinkedIn



Wechat



Twitter



Weibo



Bilibili





International admission process

October 28, 2024	(Publication of the Research proposals on Oct 16) Start of online application process	
November 14, 2024	ParisTech-CSC PhD Program Webinar. Registration here	
Midnight, December 8, 2024 (Paris time)	Application deadline	
December 20, 2024	Successful applicants will receive a notification to attend an interview.	
January 8-24, 2025	Online Interviews with the ParisTech Admission Board	
Late January to late February 2025	Online interviews with potential PhD advisors	
March 2025	Admitted students will receive a provisional admission letter to apply for the CSC scholarship.	
End of May / Early June 2025	Announcement of CSC scholarship results	
June to September 2025	Awarded students will receive the official admission letter, and will be informed by the CSC about all the administrative procedures to follow before departure for France	
September / October 2025	Arrival in France and beginning of the PhD	



Key points

In your application file

- The file you submit should be complete
- Excellence of academic transcripts
- Ranking: personal ranking and ranking of your university at national and international level
- Referrals

During the interview

- Your capacity to communicate in English, and even in French if you are able to
- Your capacity to present and explain clearly your personal and professional project

During the interview with the potential PhD supervisor

- The relevance of your profile with the lab's requirements and the thesis
- Your scientific level in relevant fields
- ParisTech will guide through out the entire process, including the CSC application



Tuition Fees

The doctoral training program total cost in France is between 100k & 150k Euros per year.

PhD candidates are only asked for tuition fees:

Admitted students may benefit from a partial or full tuition fee waiver for the duration of their studies at their host ParisTech Grande École.

ParisTech Schools	Tuition fees
AgroParisTech	380€ + 100€ CVEC* each year
Arts et Métiers Institute of Technology	
Chimie ParisTech - PSL	
ESPCI Paris - PSL	
Institut d'Optique Graduate School	
Mines Paris - PSL	



Results

By the end of May 2025 – June 2025, the CSC will announce the list of successful candidates.

Each year, over 100 candidates apply to this program, half get a proposal from a ParisTech school lab.

In 2024, 24 scholarships were granted by the CSC in our program.

Successful applicants will then receive their official admission letters, and be informed by the CSC about all the administrative procedures to follow before departure for France.

Once all administrative procedures over, and their visas obtained, PhD candidates will be expected to arrive in France in September – October 2025.





3. Research in ParisTech's Higher Education Institutions



Excellence in Research



Rankings



University Paris-Saclay: 12th (1st) University PSL: 33rd (2rd)

Arts et Métiers: 201-300 in Mechanical Engineering

2024











2025

PSL: 24th

University Paris-Saclay: 73rd **Engineering & Technology**

#35 UPSaclay #55 PSL

#401-450 Arts et Métiers

Natural sciences #15 PSL #18 UPSaclay



2025

PSL: 42nd

Paris-Saclay University: 64th Arts et Métiers : 801-1000th Engineering

#72 PSL #101-125 UPSaclay #601-800 Arts et Métiers

Physical Sciences

#20 PSL #32 UPSaclay

Computer Science

#35 PSL #48 UPSaclay



Partner national research institutes



Géosciences pour une Terre durable





IFSTTAR







Paris Tech J







Research Domains



Research Domains



environment

Mathematics and applications

Material sciences, mechanics and fluids

Physics, optics

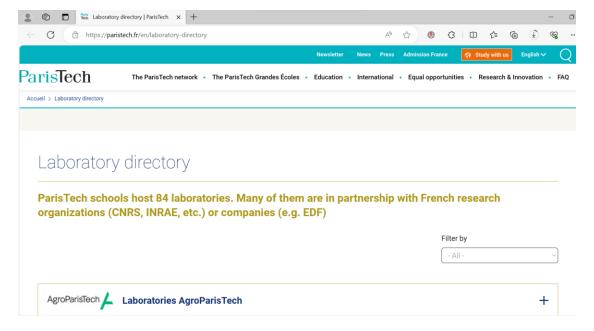
Urban planning, transport



ParisTech's Labs

Learn more about the labs in each school:









RESEARCH AT ARTS ET MÉTIERS INSTITUTE OF TECHNOLOGY

MOHAMED BENTTAIEB





ParisTech – CSC PhD Program

Arts Institute of Technology et Métiers

25 PhD proposals

Fields of research

9 Labs

























DynFluid Laboratory

ARTS ET METIERS INSTITUTE OF TECHNOLOGY



The school was founded by

8 campuses

3 satellite locations

15 research laboratories

1 campus Rabat, Morrocco

6300 students

1100 faculty & staff

130 M € annual budget

34 000 alumni

(the biggest engineering alumni association in Europe)



3 strategic themes



Lifecycle digitilization



Sustainable Engineering at low carbon impact



Cyberphysical systems

RESEARCH & INNOVATION

Shaping tomorrow's technology







INDUSTRY

7 INDUSTRIAL RESEARCH CHAIRS

17
PATENTS FILED 2019



INCOME THROUGH INDUSTRY CONTRACTS







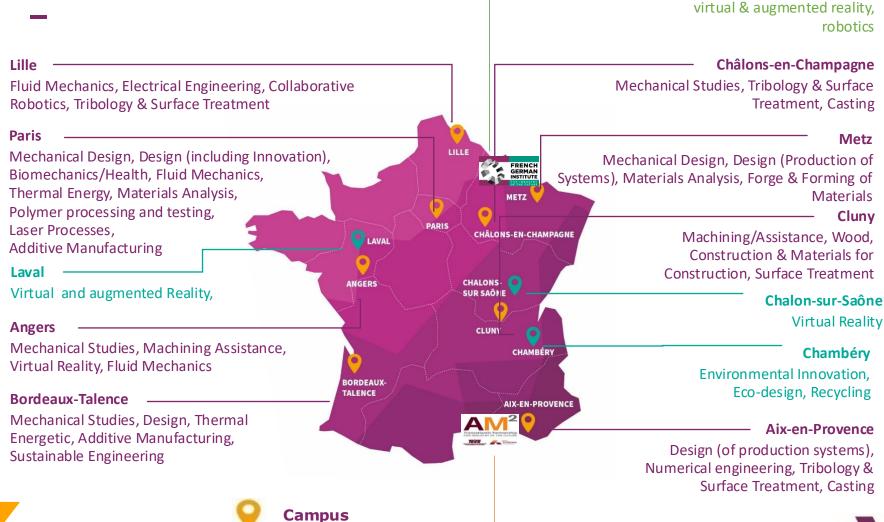




RESEARCH & INNOVATION

DIFFERENT AREAS OF EXPERTISE PER SITE

Advanced manufacturing processes, production systems, virtual & augmented reality,



Satellite location







RESEARCH AT ARTS ET MÉTIERS

RESEARCH INFRASTRUCTURES







Gait analysis, Paris









GLOBAL STRATEGIC PARTNERSHIPS























Campus of Rabat







Center of Excellence for a Sustainable Industry









RESEARCH AT ARTS ET MÉTIERS

KEY FACTS / FIGURES

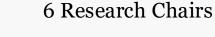


380 teacher-researchers 220 PhD candidates



532 publications in 2019 including 187 international co-publications







Prestigious partnerships and with:























17 current EU H2020 projects including 1 MSCA ITN (European Training Network) and 1 MSCA RISE 1 CNRS silver medal

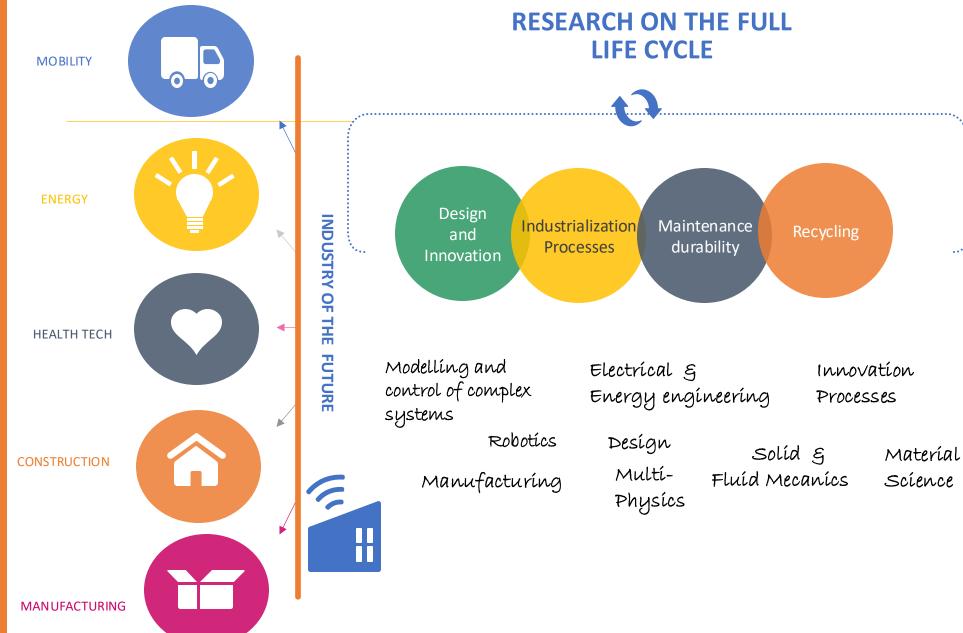


RESEARCH AND INNOVATION

5 STRATEGIC FIELDS



Excellence Label for research transfer to industry



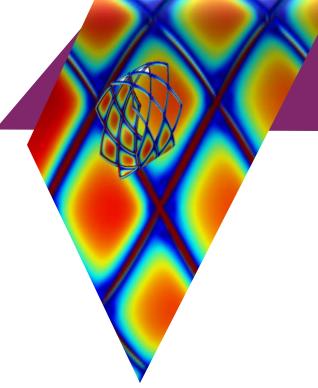
7 INDUSTRIAL CHAIRS

Long term research partnership (>5 years)











Agile, Safe and Efficient Manufacturing system





Product Life Managment



Physical Informed IA * and Hybrid Twin



9 INNOVATION LABS

Joint industry-Academic lab





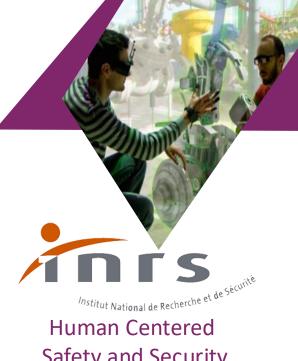


Marerials and **Processes**



Thermal System for **Ground Mobility**





Safety and Security



Metrology 4.0



Stamping 4.0



High T° material behavior Under O₂ environment.



Arts et Metiers Partnership s in China

IN BEIJING

Beihang University Tsinghua University

IN SHANGHAI

Tongji University Shanghai Jiao Tong University

IN NANJING

Nanjing University of Aeronautics and Astronautics Southeast University

IN HARBIN

Harbin Institute of Technology

IN XI'AN

Xi'an Jiaotong University

In Chongqing

Chongqing University

In 2018, Arts et Métiers and Beihang University celebrated 30 years of collaboration



RESEARCH AT ESPCI PARIS - PSL

XIAOPING JIA COSTANTINO CRETON





ParisTech – CSC PhD Program



9 PhD proposals

4 Fields of research

5 Research units







Physique et Mécanique des Milieux Hétérogènes UMR 7636







ESPCI PARIS PSL



Find the video on ParisTech China Bilibili account!









RESEARCH UNITS / INSTITUTES

Research domains at ESPCI Paris – PSL:

Biology

Brain Plasticity Lab – neurosciences + proteomics
Physics for Medicine – wave physics for medicine

Chemistry

Chemistry of Molecules and Materials – chemistry of molecules and materials

Soft Matter Science and Engineering, Institute of Porous Materials (IPM) - Soft Matter, Materials Science & Complex Fluids

CBI – microfluidics for physical chemistry and pharmaceutics

Physics



Institut Langevin – wave physics and applications Physics & Materials Lab – solid state physics, nanosciences **PMMH** – hydrodynamics and solid mechanics **Gulliver** – Soft Matter Physics





RESEARCH UNITS / INSTITUTES

RESEARCH INFRASTRUCTURES









MATHIAS FINK
ULTRASOUNDS (ERC)



ANKE LINDNER
COMPLEX FLUIDS
CNRS SILVER MEDAL

SOME KEY RESEARCHERS ESPCI PARIS - PSL



MICKAEL TANTER IMAGERY FOR MEDICINE (ERC)



ANDREW GRIFFITHS MICROFLUIDICS FOR PHARMA (ERC)



CHRISTIAN SERRE
METAL ORGANIC
FRAMEWORKS



SANDRINE ITHURRIA QUANTUM DOTS (ERC)







RESEARCH UNITS / INSTITUTES

KEY FACTS / FIGURES



ca. 500 researchers / teacher-researchers ca. 300 PhD candidates



Prestigious partnerships with academic laboratories and companies











About 500 publications per year including 10-15% in journals with impact factor > 10



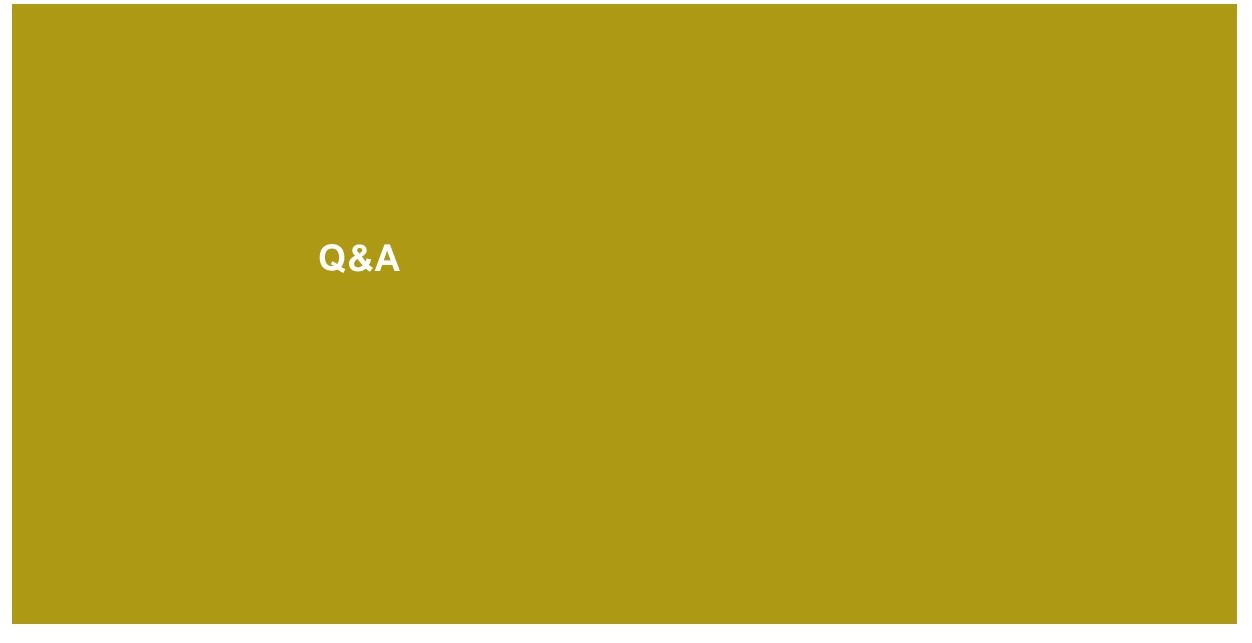








6 Nobel Prizes, 17 ERC grants, CNRS Silver Medals, UNESCO-L'Oréal For Women in Science awardees Young Researchers





Q&A

- Question: Is there a specific English certificate I need to prepare to prove the English ability?
- Answer: No, we accept all recognized English certificate (TOEIC, TOEFL, CET 4 or 6...)
- Question: I am in PhD 3rd years, can I apply this project?
- Answer :Yes, it's possible for co-supervised students.
- Question: Should I provide all my transcripts of bachelor and master?
- Answer: Yes.
- Question: How can I get the PPT and the video today?
- Answer: We will send the slides to all participants and you can watch the video on bilibili or our website.
- Question: Do the applicants need to use PPT to introduce ourselves at the beginning?
- Answer: You can prepare it if you want, but it is not necessary.
- Question: I am currently working now, can I apply this program if the company agrees?
- Answer: Yes.
- Question: Is the project just for students who apply for the CSC scholarship or it's also for the funding-supported study?
- Answer: This program is just for students with CSC scholarship.



Q&A

- Question: Do we need to contact professors before the application?
- Answer: We highly recommend you to contact the supervisors as soon as possible.
- Question: Can Visiting/Joint PhD students obtain the PhD degree from the French university they study?
- Answer :Yes.







Information & Contact



ParisTech Office in Asia



Contacts in China:

YANG Minhua Program Officer minhua.yang@paristech.fr

Tel: +86 21 65 98 23 36

WECHAT



WEIBO

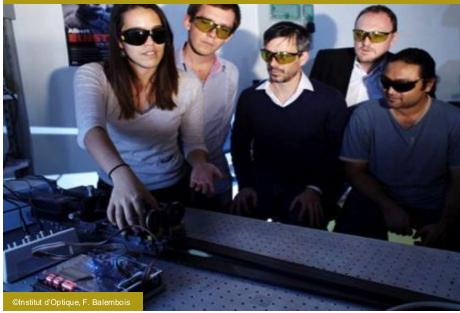


BILIBILI









4. Labs and PhD proposals



ROOMS / THEMES Chemistry, Physical chemistry and Chemical Engineering and ROOM 1 Physics, Optics Life and Health science + Environmental Science and ROOM 2 Technology, Sustainable Development, Geosciences Information and Communication Science and Technology + ROOM 3 Mathematics and their applications + Energy, Processes + Design, Industrialization ROOM 4 Material science, Mechanics and Fluids ROOM 5 Dr. Ilaria CIOFINI, Chimie ParisTech-PSL presentation

