

# CHIMIE PARISTECH



**FOSTERING  
TALENTS FOR  
TOMORROW'S  
CHEMISTRY**



Chimie Paris

ParisTech







# INTERNATIONAL

International exchanges are a significant part of Chimie ParisTech strategy. Our institution is at the heart of a large network of partner universities around the world.

## SOME EXAMPLES OF PARTNERSHIPS

### EUROPE

ETH Zürich / Politecnico Milano /  
KTH Stockholm / Ludwig Maximilians  
Universität München / University of  
Strathclyde / Novosibirsk State  
University / Tomsk State University /  
Sapienza (Rome) / SNS (Pisa) /  
University of Bologna /  
Universidad Autónoma de Madrid

### NORTH AMERICA

**Canada :** Polytechnic School of University  
of Montreal / University of Sherbrooke

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**15 DOUBLE DEGREES**

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**80 PARTNER INSTITUTIONS  
COVERING 23 DIFFERENT  
COUNTRIES**

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**40 ERASMUS AGREEMENTS**

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### SOUTH AMERICA

**Brazil :** USP-EP / UFRJ / UNICAMP

**Argentina :** Buenos Aires University /  
Universidad Nacional del Litoral

**Colombia :** Universidad Nacional Bogota

### ASIA

**China :** Tsinghua University /  
Beijing University / Tongji University /  
Jiaotong University / Fudan University /  
Nanjing University / SJTU (Shanghai) /  
Beijing University of Chemistry  
Technology

### AFRICA

**Tunisia :** Institut National des Sciences  
Avancées de Tunis



# CHIMIE PARISTECH

LEADING FRENCH INSTITUTION WHICH COMBINES TOP-LEVEL RESEARCH, ACADEMICS AND INNOVATION



Chimie ParisTech was founded by Charles Friedel in 1896. It has become emblematic of research and education in chemistry in France, delivering MSc Engineering as well as providing doctoral programmes. Chimie ParisTech is a member of PSL Université, world class University and best French institution according to the Times Higher Education.

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## PART OF EDUCATION

The best French institution according to the Times Higher Education. During a unique 3 years programme, Chimie ParisTech educates students in basic and applied chemistry, providing them with a solid scientific knowledge, management training and a good understanding of the business world.

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## OUR UNIVERSITY PSL PARIS SCIENCES ET LETTRES

PSL encompasses every field of knowledge, from the sciences and engineering to the arts, humanities and social sciences. With 4,500 researchers and 17,000 students, PSL's strengths are comparable to those of the world's top universities. PSL provides the ideal environment for interdisciplinarity, and prioritizes high student-faculty ratios.

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## RESEARCH

Chimie ParisTech research activity covers a wide range of areas of chemistry: materials, processes, life science, molecular chemistry, and covers fields like health, energy, environment, mobility.

Our research addresses scientific questions from basic research to applied research and innovations whose economic exploitation is close.



# TRAINING AT THE HIGHEST LEVEL

## CHIMIE PARISTECH TRAINS NEARLY 350 ENGINEERS AND OFFERS COURSES IN VARIOUS INTERNATIONAL SCIENTIFIC MASTERS

Our degree in engineering is unique and covers all fields of chemistry.

Our graduates are greatly sought after by employers thanks to their excellent scientific background and high level skills in management and business.

Our training is provided by experts in their field who are either researchers or managers from businesses.

Our selection process is one of the most competitive in France.

**90**  
PHD'S

**50%**  
OF OUR  
STUDENTS ARE  
WOMEN

**20%**  
INTERNATIONAL  
STUDENTS

**20%**  
IN ECONOMICS  
AND SOCIAL  
SCIENCES

**40%**  
OF TRAINING IS  
EXPERIMENTAL

CHIMIE PARISTECH OFFERS SEVERAL PROFESSIONAL AND INTERNATIONAL PROGRAMMES THAT TRAIN EACH YEAR  
**ENGINEERS, MASTER GRADUATES AND PHD STUDENTS**

### DEGREE IN ENGINEERING

- Chemical Engineering
- Chemical Risk
- Molecular chemistry and biochemistry
- Processes
- Interfaces
- Quantum chemistry
- Analytical chemistry
- Computing and programming
- Applied Mathematics for Engineering
- Organic chemistry
- Chemical bond
- Interaction radiation matter
- Chemistry of Materials
- Spectroscopy
- Numerical Methods
- Metallic materials
- Polymer chemistry
- Radioactivity
- Statistical Thermodynamics and Molecular Modelling
- Electronic structure of solids
- Biotechnology
- Human sciences and management: communication, entrepreneurship, marketing, finances, management control
- Industrial strategy (patent, innovation, economics)

### MASTERS OF SCIENCE

- Master « Chimie Paris Centre » (SU, ENS, ESPCI)
  - > Analytical, Physical & Therotical Chemistry
  - > Molecular Chemistry
  - > Inorganic Materials and Polymers
  - > Chemical Engineering
- Master of Nuclear Energy (Paris-Saclay University)
- Master « Material Science » PSL
- Master « Energy » PSL
- Master « Chemical Frontiers of Living Matter » PSL
- Master « Molecular Pharmacology » (Paris Descartes University)
- Master « Material Science and Nanoobjects » (SU)

### DOCTORATES

- Chemical engineering and advanced technology
- Physical chemistry and analytical chemistry
- Molecular chemistry
- Material physics and chemistry

# DEVELOPING KNOWLEDGE TO TACKLE TOMORROW'S CHALLENGES

Chimie ParisTech develops world class research activities in both basic and applied chemistry to provide solutions to our society and businesses.



## RESEARCH AT CHIMIE PARISTECH

In association with companies or large public research organisations (CNRS / INSERM, universities), the research activity of Chimie ParisTech covers the whole spectrum of chemistry. It addresses scientific questions ranging from basic research to applied research and innovation.

### MATERIALS, PROCESSES, ENERGY

- Metallurgy
- Corrosion
- Materials Aging
- Surfaces
- Thin films
- Materials and Processes for Nuclear Energy
- Glasses
- Electrochemical Storage of Energy
- Solar Cells
- Fuel Cells
- Materials for Optics
- Nanoparticles
- Nanostructured Materials
- Process Engineering
- Theoretical Chemistry and Modelling

### HEALTH

- Medicinal Chemistry
- Pharmacology
- Medical Imaging
- Biomaterials
- Diagnosis
- Microfluidics

### ENVIRONMENT

- Catalysis and sustainable processes
- Wastewater, treatment and soil remediation
- Photovoltaic cells







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