

## Subjects taught & Research conducted at ParisTech

*applied mathematics - computer science - statistics - finance - physics - optical sciences - economics & social sciences - executive engineering - industrial & production engineering - materials science & engineering - mechanical engineering - offshore engineering - naval architecture - civil engineering - town & country planning - transport engineering & systems - electrical, electronic and photonic engineering - information technology & telecommunications - robotics - automatics - energy & nuclear engineering - chemistry - chemical engineering - earth sciences - environmental engineering - life sciences - forest engineering - agricultural engineering - computational biology - bioengineering & biophysics - management*

### With special emphasis on the following subjects at the following Graduate Schools:

#### AgroParisTech

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

#### Chimie ParisTech

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

#### Ecole des Ponts ParisTech

Civil and Structural Engineering, Environmental Engineering, Transportation Engineering, City planning, Mechanical Engineering & Materials Science, Industrial Engineering (production, supply chain, innovation & design thinking, data science management), Economics, Management & Finance, Applied Mathematics and Computer Science (Numerical analysis, Vision and Learning, optimization, quantitative finance)

#### ENSAE ParisTech

Applied Mathematics: Economics & Econometrics, Quantitative Economics, Financial Mathematics, Risk Management, Data Science, Statistics, Actuarial Science

#### ENSTA ParisTech

Automotive and Railway Transport, Maritime Engineering, Electronuclear Energy, Energetic Systems, Offshore Energies Engineering, Optimization, Operational Research and Command, Quantitative Finance, Modelling and Simulation, Robotics and embedded systems, Information systems, Systems Engineering

#### ESPCI Paris

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, Mesostructures and Quantum Structures

#### 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, Automation and Robotics, Computational Biology, Earth and environmental sciences, Materials sciences and mechanical 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, Big Data, Digital Trust, Very Large Networks and Systems, Design-Interaction-Perception, Modeling for a Digital World, Digital Innovation