

## scientific *expertise*

The expertise of the foundation is at the disposal of research laboratories in both the public sector and the private sector in order to provide **appropriate mathematical solutions** to new questions raised by advances in science and technology.

In addition, the foundation, when appropriate, can provide training and advice to its partners in pure and applied mathematics areas, as well as in computer science.

This ties in with one of the main objectives of the foundation, which is to extend its links with industry, and expand its network of **partners and sponsors**.

The «**Concepts, modèles, simulation**», initiative offers the companies involved a forum to debate and discuss topics of common interest at the leading-edge of today's technologies.

### contact

#### Fondation Sciences Mathématiques de Paris

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### founding institutions



## a network *of excellence*

> Created in 2006, the «Mathematical Sciences of Paris» foundation is a **network of excellence** that is unique in its field, both by its dimension and its scientific potential.

> It brings together close to 1000 researchers in **mathematical sciences** belonging to 6 large research institutions in the Paris area: the universities of Pierre-et-Marie-Curie (UPMC) and Paris-Diderot (UPD P7), the Ecole Normale Supérieure (ENS), the National Center for Scientific Research (CNRS), the university of Paris-Dauphine and the Collège de France.

> The foundation covers a wide scientific spectrum which takes in most of the top themes in mathematics and fundamental computer science, ranging from abstract theories to the most varied of applications.

> The foundation has three main missions: **support** fundamental and applied research, **increase** the collaborations with the best international scientific institutions and **develop** the public and private sector research partnerships.

## some initial figures

- 550** research scientists (some full-time, some also with teaching responsibilities), including
- 4** Fields Medallists, **14** Academicians
  - 120** recipients of national and international awards
  - 100** post-docs
  - 360** graduate students
  - 50** support-level personnel
- Organization of **55** weekly seminars  
Management of **27** European research programs and networks
- 650** articles in scientific journals with editorial boards
  - 170** written communications and **75** books published annually
  - 70** engaged in editorial committees of scientific journals
- Participation in **1100** international conferences each year
- 35** contracts with various private-sector industries

## research programs

The foundation's activities are managed by a scientific committee composed of eminent members of universities and the private sector, external to the foundation, drawn from around the world

Among projects and activities funded are:

> **The Mathematical Sciences of Paris distinguished lecture**, endowed with a prize

> **University chairs** of various durations, along with doctoral and post-doctoral support

> **Invitations to eminent scientists**

> **Support for Master, Doctoral and Post-Doctoral** students, both French and non-French

> **Research visits, both within France and abroad** for doctoral students

> **The participation of French researchers** in programs at the Henri Poincaré Institute

## scientific structure

**The 7 laboratories of the Fédération de Recherche en Mathématiques de Paris centre**

[www.federation.math.jussieu.fr](http://www.federation.math.jussieu.fr)

Institut de Mathématiques de Jussieu (UPMC, UPDP7, CNRS)

[www.institut.math.jussieu.fr](http://www.institut.math.jussieu.fr)

Laboratoire Jacques-Louis Lions (UPMC, CNRS)

[www.ann.jussieu.fr](http://www.ann.jussieu.fr)

Laboratoire de Probabilités et Modèles Aléatoires (UPMC, UPDP7, CNRS)

[www.proba.jussieu.fr](http://www.proba.jussieu.fr)

Équipe de Logique Mathématique (UPDP7, CNRS)

[www.logique.jussieu.fr](http://www.logique.jussieu.fr)

Équipe Combinatoire et Optimisation (UPMC, CNRS)

[www.ecp6.jussieu.fr](http://www.ecp6.jussieu.fr)

Laboratoire Preuves, Programmes et Systèmes (UPDP7, CNRS)

[www.pps.jussieu.fr](http://www.pps.jussieu.fr)

Laboratoire d'Informatique Algorithmique: Fondements et Applications (UPDP7, CNRS)

[www.liafa.jussieu.fr](http://www.liafa.jussieu.fr)

**The Département de Mathématiques et Applications of the Ecole Normale Supérieure**

(ENS, CNRS)

[www.dma.ens.fr](http://www.dma.ens.fr)

**The four mathematics chairs of the Collège de France**

(Collège de France)

[www.college-de-france.fr](http://www.college-de-france.fr)

**The Centre de Recherche en Mathématiques de la Décision of the University Paris-Dauphine**

(Dauphine, CNRS)

[www.ceremade.dauphine.fr](http://www.ceremade.dauphine.fr)