



## FRANCE – France



# FRANCE (FR)

## INFORMATION ON BILATERAL AGREEMENTS

- **21st January 1978**

Agreement on scientific and technical cooperation (joint scientific committee)

- **May 1997**

Agreement on cooperation in space (CNES and CNSA)

- **24th September 1998**

Agreement on intellectual property

- **9th October 2004**

Agreement on emerging infectious diseases - MAEE/MOST (meeting every year)

- **1st March 2007**

Cooperation agreement on Traditional Chinese Medicine - MAEE/SATCM (meeting every year)

- **26 November 2007** (visit of President Sarkozy to China)

Agreement (between ministries) on sustainable development

Joint declaration on climate change (between countries, at presidential level)

Agreement between MOST and French Ministry of economy about the French competitiveness clusters and the Chinese High tech Parks

- **23 January 2008**

Agreement between the French funding agency ANR (Agence nationale de la recherche) and the NFSC (one joint call for proposal per year)

- **12 November 2009**

Memorandum of Understanding between ANR and MOST about green technologies and more specifically on water

- **18 November 2009**

Signature of the agreement for the implementation of Cai Yuanpei, a program created by the French ministries of Foreign and European affairs and for Higher education and research and the Chinese ministry for Education (meeting and joint call for proposal every year)

- **8 November 2010**

Agreement between the French funding agency for innovation (Oséo) and the Torch Center to support joint projects

- **27 September 2011**

Agreement between Oséo, the French innovation agency, and the Chinese Ministry of Science and Technology (to support joint call for proposals)

- **26 April 2013**

Joint declaration on innovation between French ministries for Production recovery and for higher education and research and Chinese ministry of Science and Technology (exchanges on the national policies of innovation) |

- **25 March 2014**

Agreement between BPIFrance, the French innovation agency, and the Chinese Ministry of Science and Technology (to support joint call for proposals), replacing the agreement Oséo/MOST signed on 2011.

### **November 2014**

Agreement on high level dialogue on people to people exchange between the Ministry of Europe and foreign affairs of the French Republic and the Ministry of Education the People's Republic of China

### **December 2015**

Agreement on spatial data utilization for the study of climate change between the French spatial agency CNES and the Chinese spatial agency CNSA

### **February 2017**

Agreement on Exchange of Young outstanding researchers in Science and Technology between the Ministry of Europe and foreign affairs, the Ministry of Education, Higher Education and Research of the French Republic and the Ministry of Science and Technology of the People's Republic of China

## **JOINT INSTITUTES AND NETWORKS**

- The Joint Institutes and networks cover more or less all fields. French joint labs are “bottom-up”.
- There are also 61 joint labs gathering several French and Chinese labs in all scientific fields (among them 7 in SSH).

### **Life sciences and medicine (21):**

- Sino-French research center in life science and genomics-RCLSG (Shanghai)
  - Pasteur Institute – IPS (Shanghai)
  - Sino-French oriental center of urology (Shanghai)
  - Christophe Mérieux Laboratory – CML (Beijing)
  - Sino-French research center for biomedical information - CRIBs (Nanjing)
  - Sino-French physiology & pathology laboratory-SFLPP (Shanghai)
  - Biology laboratory of mammals embryonic cells – LABIOCEM (Beijing)
  - Sino-French laboratory of molecular pathology-SFLMP (Shanghai)
  - Post-translational modifications in cancer – LIA PMC (Shanghai)
  - Bio-mineralization and nano-structures laboratory – LIA BioMNSL (Beijing)
  - Laboratory of cell and tissue engineering and applications in regenerative medicine-LICTAMR (Wuhan)
  - Plant Epigenome research laboratory-PER (Shanghai)
  - Medical engineering and theory in image and signal laboratory-METISLAB (Shenyang)
- Analyzing Virus – Host interactions for therapeutic targeting of human viral infections-VIRHOST (Shanghai)
- Franco-Chinese center for virus and tumors Immunology (Kunming)
- Helicase-mediated G-quadruplex DNA unwinding and genome stability-G-QUADRUPLEX-HELI (Beijing)
- Franco-Chinese Laboratory in Nutrition, food safety, and pharmaceutical chemistry (Tianjin)
- Ecosystem Services Provided by Contaminated Land-ECOLAND (Guangzhou)
- Fixing Nitrogen Threes Patchwork-RHIZOGENÈSE (Guangzhou)
- Sino-French Collaborative Laboratory on HIV
- Sino-French Laboratory of Deep-Sea Microbiology- MicroBSea (Xiamen)

### **Chemistry (8):**

- Nanoscience laboratory of organic chemistry XiamENS : NanoBioChem (Xiamen)
- Sino-French joint laboratory functional organophosphorus materials – LIA MOF (Zhangzhou)

- Photoswitchable organic molecular systems & devices group-GDRI PHENICS (Beijing)
  - Eco-efficient products & processes laboratory – UMI E2P2L (Shanghai)
  - Lehn institute of functional materials – LIFM (Guangzhou)
  - French Chinese network in theoretical chemistry group-RFCCT (Beijing)
  - Laboratory of France-China on catalysis-LIA LFCC (Dalian)
- Synthesis of microporous materials-ZEOLITES (Dalian, Jilin)

### **Physics (9):**

- France china particle physics laboratory – LIA FCPPL (Beijing)
  - Quantum manipulation of atoms and photons – GDRI QMAP (Shanghai)
  - Absorption spectroscopy of molecules of interest for atmospheric sciences and planetology – SAMIA (Hefei)
  - Material, mechanics, control and information science laboratory – LIA 2MCIS (Beijing)
  - Laboratory for the applications of superconductors and magnetic materials-LIA LAS2M (Beijing)
  - UTC-NWPU working group on prototyping (Xi'an)
  - Joint laboratory for astrometry, dynamics and space science-JLAD2S (Guangzhou)
  - Origins of matter and life in the universe laboratory-LIA ORIGINS (Beijing)
- Photonics and Optoelectronics research Network-PHOTONET (Beijing, Shanghai, Hangzhou, Wuhan)

### **Mathematics (3):**

- Sun Yat Sen University-Ecole Normale Supérieure – SYSU-ENS (Guangzhou)
- Sino-French laboratory of fundamental mathematics-LIA LSFMF (Guangzhou)
- Sino-French international associated laboratory for applied mathematics- LIASFMA (Shanghai)

### **Information and communication technologies (7):**

- Sino-French laboratory for computer science, automation and applied mathematics – LIAMA (Beijing)
  - Sino-French institute for engineering education and research –SFIEER (Guangzhou)
  - Cooperation platform “Complexcity” in Shanghai (UTSEUS)
  - Sino-French center on innovation-PLM (Beijing)
  - Smart computing for sustainable development franco-chinese laboratory-LIA SCSD-FCLAB (Harbin)
  - Sino-French laboratory of automatic and signals-La FCAS (Shanghai)
- Maritime security and navigation- Galileo/MITS (Shanghai)

### **Environment and Energy (6):**

- Monsoon, ocean and climate laboratory – LIA MONOCL (Beijing)
- Sino-French Laboratory for sustainable energy – LIA LSE (Dalian)
- Sediment transport and landscape dynamics laboratory-SALADYN (Beijing)
- Sino-French program for environment and sustainable development-SEED (Beijing)
- Ecosystem health and environmental disease group-EHEDE (Chengdu)
- New approaches for water control and sustainable energy by electrochemical biosensors and biofuel cells – GDRI CEERBIO (Changchun)

### **Social sciences and humanities (7):**

- Joint Research Institute for Science and Society-JoRISS (Shanghai)
- Sino French Research Center at Tsinghua University –CFC (Beijing)
- French School of Asian Studies-EFEO (Beijing)
- Post-Western Sociologies and field research in China and France Laboratory-POSTWEST SOCIO (Beijing)

- The Globalisation's origins and the Great Divergence: Trading Networks and the Trajectory of Economic Institutions - Europe-Asia (1500-2000)-EurAsiaTrajEco (Guangzhou)
- Sino-French archeological mission in Xinjiang-MAFCX (Urumqi)
- Inequalities in China: Empirical and Experimental Approaches-Chine Q (Beijing)

## INNOVATION-RELATED ACTIVITIES

- Agreement between BPIFrance, the French innovation agency, and the Chinese Ministry of Science and Technology (to support joint call for proposals), replacing the agreement Oséo/MOST signed on 2011 (2014) |
- Joint declaration on innovation between French ministries for Production recovery and for higher education and research and Chinese ministry of Science and Technology (exchanges on the national policies of innovation) in April 2013. The official launch of the dialogue took place in Paris in March 2014
- Agreement between Oséo and the MOST (2011) for funding innovative Sino- French projects (ongoing call for projects)
- Agreement between the French competitive clusters (DGCIS – Ministry of Economy, Finances and Industry) and the Chinese science parks (2007)

The French Embassy organizes regular meetings in Shanghai, Beijing, Guangzhou and Wuhan with French high Tech companies (Clubs R&D).

## PROGRAMMES CARRIED OUT BY FRENCH EMBASSY

- **COOPOL Innovation:** This program has been established in 2008 by the department of science and technology of the French Embassy in China. Its goal is to facilitate the cooperation between French innovative SMEs of the competitiveness clusters and their research partners with their Chinese counterparts. The program support an exploration mission of one week, for two persons (one from the SME, one from the partner research institution), to meet potential collaborators, both academics and industrials/;
- **Cai Yuanpei:** Created by the Chinese Ministry of Education and the French Ministries of Foreign Affairs and of Higher Education and Research, the Cai Yuanpei program aims at fostering the exchanges of PhD students and their supervisors and related post-docs between the 2 countries. Research cooperation projects between French and Chinese research teams are selected and financial supports for the travels and stays in the partner country will be provided for 2 full years. All the disciplinary fields are eligible, (Science and Humanities). About 25 new projects are supported each year (co-financed by French and Chinese sides).
- **Discover China:** Program to allow French researchers to deepen their knowledge on the researches done in their domain in China. It grants French scientists for a short trip in China.
- **Xu Guangqi:** The goal of the Xu Guangqi programme is to develop collaborations between Chinese and French researchers working in laboratories of both countries by supporting them in their initial phase of launching and development. Mobility of young researchers within the collaborations is particularly appreciated. The program lasts 1 full year. All the disciplinary fields are eligible.
- **Youth Talents:** Bilateral program of exchange of young scientific talents for an immersion stay in respective host laboratories.

- **Emergence:** Program to launch scientific cooperation between France and China in emerging infectious diseases around the P4 laboratory in Wuhan (Intergovernmental agreement on emerging infectious diseases signed in 2004)

## **OTHER PROGRAMMES**

- ANR/NSFC: one call for proposal launch per year to support new Sino-French projects. Open international programme but with priorities for 2012 on ICT and Green and Sustainable Chemistry.
- ANR/MOST: ECOTECH, last call for proposal launch in 2011 on Environment technologies.
- CNRS has developed actions to support French-Chinese cooperation. CNRS has also set cooperation programs with NSFC, CAS and CASS.

### **Websites managed by the French Embassy:**

- <http://www.ambafrance-cn.org/sciences-innovation>
- <http://weibo.com/sciencefrance>
- [https://twitter.com/AmbaTech\\_Chine](https://twitter.com/AmbaTech_Chine)
- <http://www.ambafrance-cn.org/le-cnrs-en-chine>

## **TRILATERAL OR MULTILATERAL JOINT INITIATIVES**

- For multilateral, some but they take place in Europe (FAIR, ITER...)
- Regional (Asia) programs between France and Asia, about ICT (ICT Asia) and biological sciences (BIO Asia).