



Liberté • Égalité • Fraternité

RÉPUBLIQUE FRANÇAISE

EMBASSY OF FRANCE
IN THE UNITED STATES

OFFICE FOR SCIENCE
& TECHNOLOGY



Opportunities in the French Higher Education, Research and Innovation System

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France: a country of diverse landscapes and rich cultural heritage



- Hosts the world's 5th largest number of cultural UNESCO World Heritage Sites, drawing around 89 million foreign tourists annually (1st in the world)
- Temperate climate with maritime influence leading to diverse landscapes
- Renowned sites, architectural heritage, museums
- Rich cultural tradition

France: a major contributor to scientific achievement

Famous French scientists

70 Nobel Prizes, 13 Fields Medals



High quality research facilities



Successful technologies



French Research and Innovation : key figures

49.5 B €
2,27% of GDP
dedicated to R&I

604 700 persons
involved in R&I
(285000 researchers)

14 500 PhD degrees
delivered every year

4th position in terms
of EU patents
applications

7th W-W position in
terms of scientific
publications
4th in terms of impact
(H index)

CNRS 1st institution
W-W in terms of
scientific publications

57% of international
copublications

CNRS recruits ~30 %
of its researchers / yr
from abroad
(since 2010)

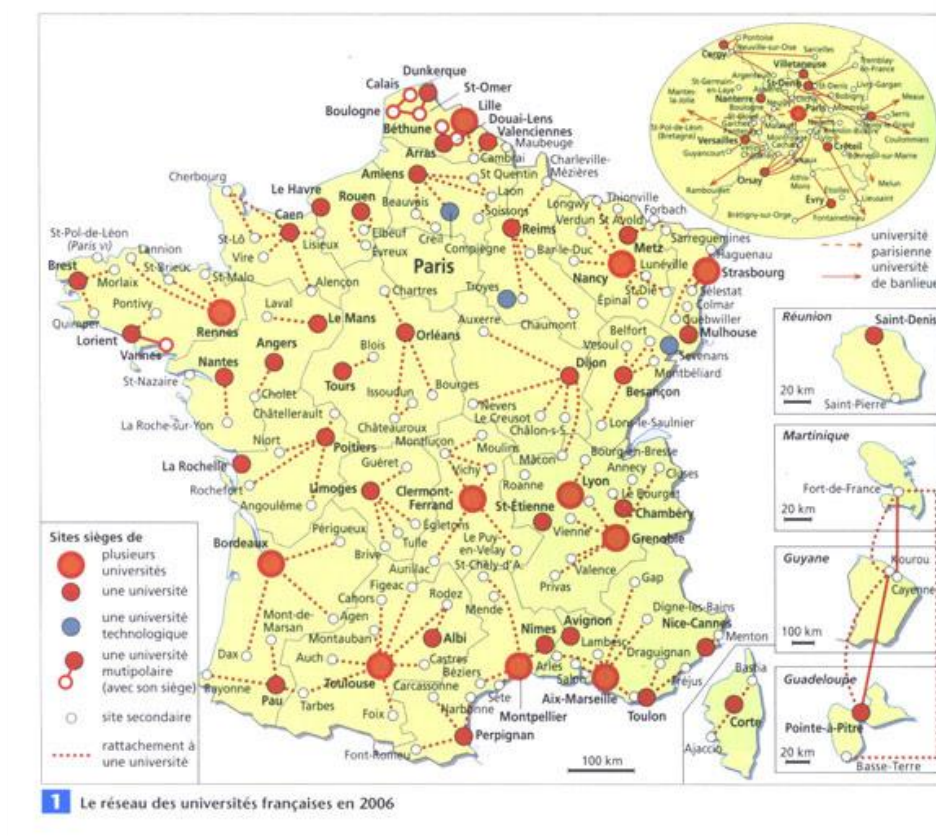
41% foreign PhD
students

20 Research institutions (« organismes de recherche »)

- **CNRS** (all fields)
- **CEA** (nuclear energy/physics/materials)
- **INRIA** (ICT and robotics)
- **INSERM** (health)
- **IRD** (development research)
- **IFSTTAR** (transport)
- **CNES** (space)
- **INRAE** (agronomy)
- **IFREMER** (marine research)
- **IPEV** (polar)
- ...



67 Universities



- Enroll the majority of students :
1 525 000 (2017-2018)
- Award national diplomas, based on uniform standards of quality
- Cover all disciplines
- **All have a research activity**
- Total staff of universities : **154 0600**, among which **94 600** involved in teaching (2016-2017)

Public organizations involved in R&I 3/5

Grandes Ecoles

- A specific feature, inherited from history (set up in parallel with the university system since the 18th century)
86 500 students (2017-2018)
- highly selective / competitive admission
- **Engineering**: + 200 schools - 158 800 students
- **Business & management**: 220 schools - 174 100 students
- **Arts**: 120 schools
- **Architecture**: 20 schools
- ...



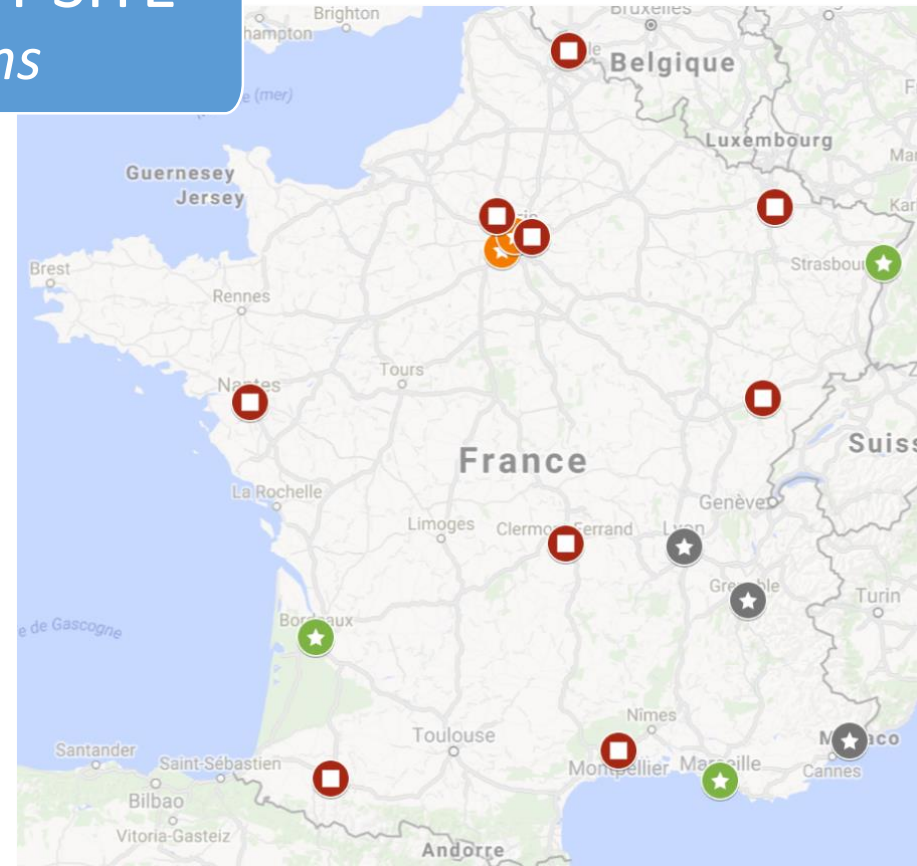
Ecole Polytechnique



Agro Paris Tech

Building Excellence Clusters: IDEX & I-SITE *towards top world ranking institutions*

- Bring together universities, grandes écoles, national research centers, and enhance collaboration with companies
- Integrate Higher Education, Research and Innovation
- Encourage mergers
- Enhance international visibility and attractiveness



IDEX « Initiatives d'Excellence » (comprehensive)



I-SITE Initiatives « Science – Innovation – Territoires – Economie »
(thematically specialised)

Funding bodies

- **MESRI** (core funding of universities and Research Public Organizations + limited operational budget)
- **ANR** - Agence nationale de la recherche (calls for proposals in Research)
- **Interministerial programmes** (e.g. Programme Investissements d'Avenir - PIA)
- **BPI France**
- **MEAE** (specific tools)



MINISTÈRE
DE L'ÉDUCATION NATIONALE,
DE L'ENSEIGNEMENT SUPÉRIEUR
ET DE LA RECHERCHE

ANR AGENCE
NATIONALE
DE LA
RECHERCHE



bpi**france**



MINISTÈRE
DE L'EUROPE ET DES
AFFAIRES ÉTRANGÈRES

Among the current flagship initiatives

Artificial intelligence

- « AI for Humanity » strategy
- Strategic Partnership with Germany, special cooperation with Japan and Canada

Quantum technologies

- Ongoing parliamentary mission based on international benchmarking (incl. US, China, Canada, Japan)
- New national strategy (in synergy with EU flagship initiative)

Environment and climate change

- Follow-up of the UN Framework Convention on Climate Change (active role in the Intergovernmental Panel on Climate Change (IPCC))
- Make our Planet Great Again Initiative



Fostering transatlantic cooperation and mobility in environmental and climate science

1st CALL 2017... ongoing

- All nationalities
- Student courses / doctorates / post-doctorates / long-term research stays
- Funding of scientific projects for 3 to 5 years
- Thematic areas:
 - Earth Science
 - Climate change, Sustainable development
 - Energy Transition Science and Technology
- Up to 30M€ for the 1st call

A STRONG RESONANCE AROUND THE WORLD, PARTICULARLY IN THE US IN 2017

- *> 11 000 registrations, of which 5 600 students and researchers*
- *1 800 formal applications (short or long-term research stays, studies, post-doctorate..)*
- *61% des USA*

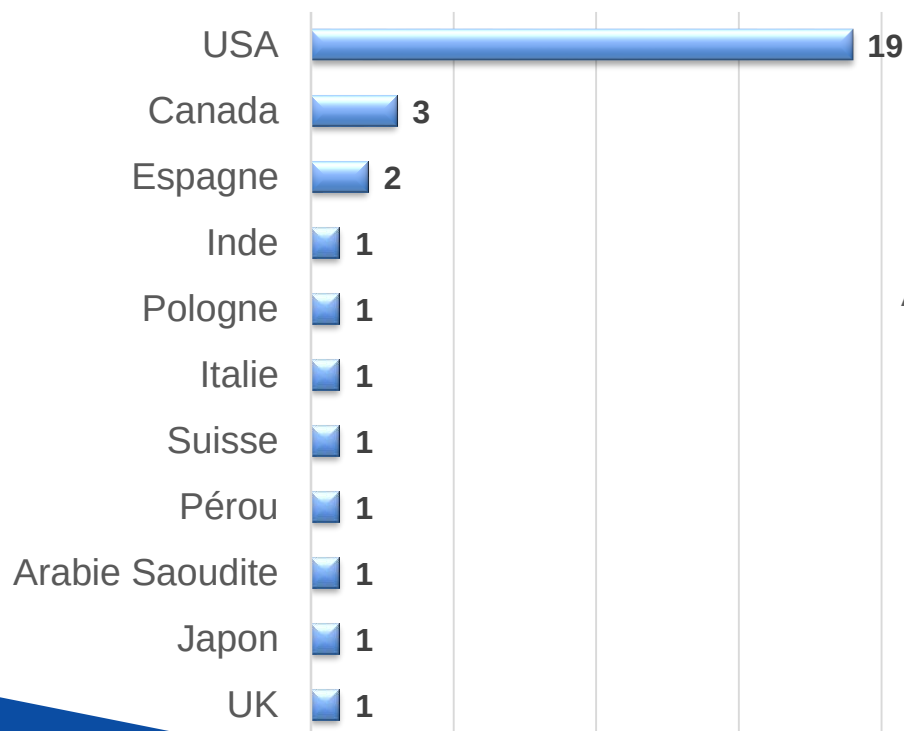
MAKE OUR PLANET GREAT AGAIN



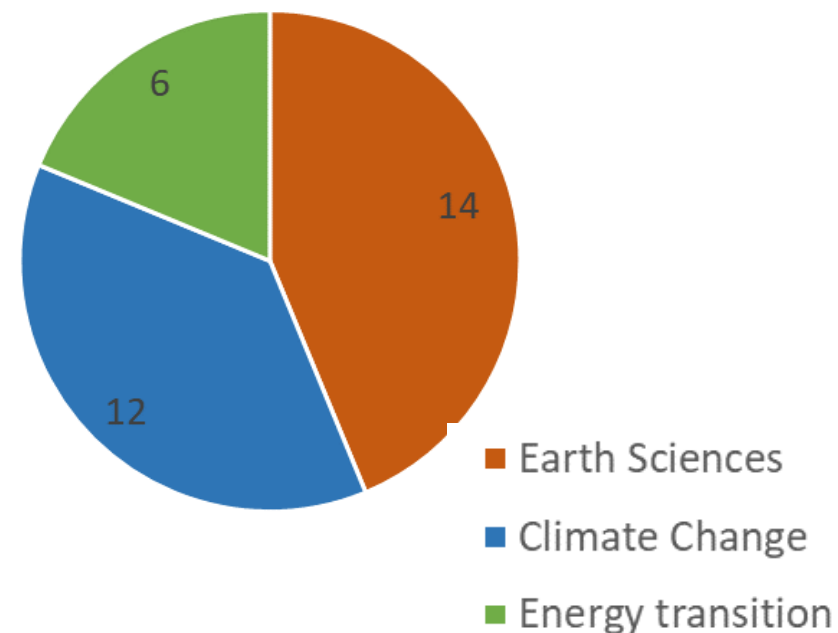
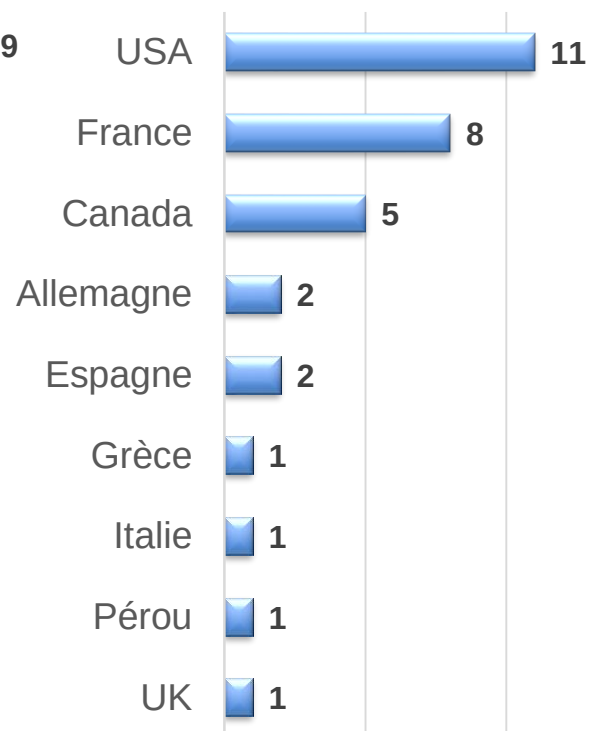
Call 2017: 32 laureates for long-term research stays

Females 9 **Seniors** 16
Males 23 **Juniors** 16

Residence



Nationality





THE FRENCH NATIONAL CENTER FOR SCIENTIFIC RESEARCH (CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE)

FRANCE'S FLAGSHIP RESEARCH
INSTITUTE

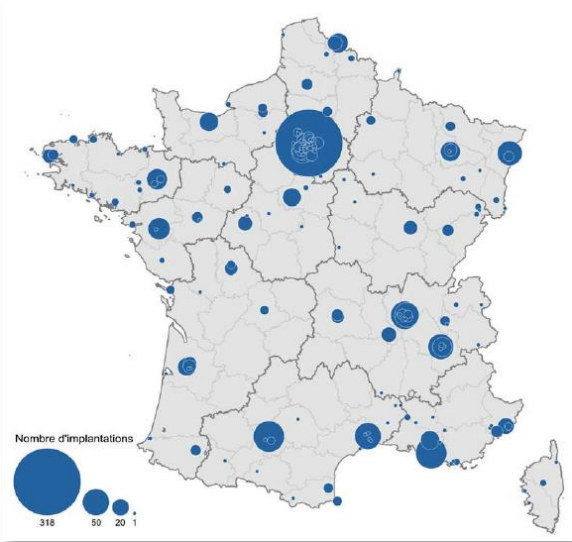
ADVANCING SCIENCE

EXPLORING NEW INTELLECTUAL FRONTIERS ATTACKING
IMPORTANT SOCIETAL ISSUES

CNRS – European Research & International Co-Operation | DERCI

1

LARGEST RESEARCH PERFORMING ORGANIZATION IN EUROPE IN ALL FIELDS OF KNOWLEDGE



- **1,137 units** spread in France and abroad
- **96,9%** units jointly operated with other **academic partners** (universities, research institutes) or **industrial companies**
- A **workforce of 33 000** (including 11 200 tenured researchers)
- **43,000 publications/year** (world leading organization)
- 26 Framework **agreements** with large **industrial groups**
- A portfolio of **4,535 patent families**
- More than **1,000 start-ups** launched since 1999

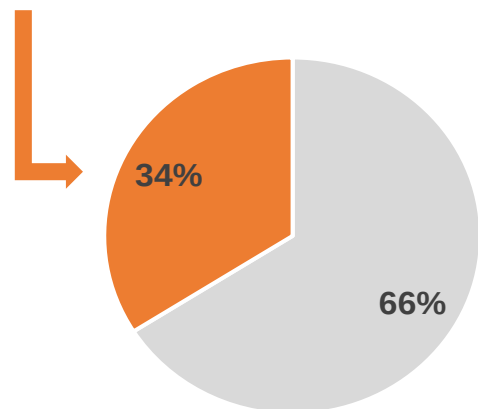
2

MANY CAREER OPPORTUNITIES WITH NO CITIZENSHIP RESTRICTIONS



A total of 3,300
foreign researchers
(permanent & contract)

Annually Recruited Permanent
Researchers of Foreign Citizenship



NON-TENURED POSITIONS

TENURED POSITIONS

. | Researchers

- Annual competitive recruiting process: call for proposals in December, start in October
- CR: 1st class or 2nd class (5 < years)
- DR : 1st class (8 < years) or 2nd class (12 < years)

. | Engineers

- Annual competitive recruiting process: call for proposals in May, start in December

. | Permanent Associate Professor positions

- Qualification deadline: December

. | Researchers and Engineers

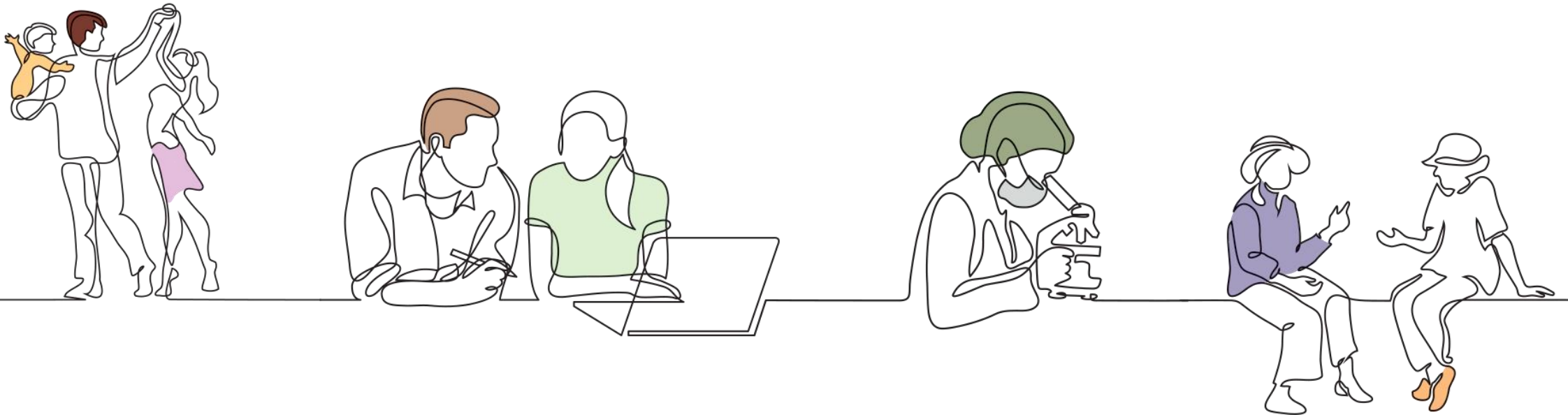
- 1 to 3 years – renewable

. | Post-docs

<http://emploi.cnrs.fr>

La science pour la santé

From science to health



Inserm-USA Office
inserm-usa@ambascience-usa.org



www.inserm.fr/en

The only one French research institution entirely dedicated to biomedical & health research



Inserm's missions for health



Produce and disseminate knowledge nationally and internationally

Provide scientific expertise and **support** for **science-based policy** in health



Create value from **discoveries and their applications**



INITIATE, DEVELOP
AND COORDINATE
**BIOMEDICAL
RESEARCH OF
EXCELLENCE**



Play a major role in the **national coordination of health research**



Support higher education and research training



Inserm at a glance



In Europe and worldwide

+ 6,000 international cooperation



- No. 1 European academic applicant in the biomedical sector and No. 4 in the biotechnology sector worldwide
- 9th most innovative public research organization worldwide
- Major participants in H2020 (230 EU projects; 80 ERC)

13,371 staff



- 5,104 civil servants (2,142 researchers)
- 3,035 contract staff and temporary workers
- 5,232 university-hospital personnel



11,033 original articles (2018)

(> 50% International co-publications)



Patents and licenses

- A portfolio of 1,804 patent families
- 300 R&D partnerships



Working at Inserm

<https://www.inserm.fr/en/jobs-and-careers>



Researchers

Engineers/Technicians

ATIP-Avenir

young researchers

- annual grant of €60,000
- two-year fixed-term contract for the recruitment of a postdoctoral researcher
- salary for three years for non-statutory laureates

Tenure Positions
Annual recruiting campaign

Guide of the International Mobility at Inserm:
https://rh.inserm.fr/Documents/Inserm_MobiliteInternationale_GuideEN.pdf

+ numerous positions available through temporary contracts (project-based)
<https://euraxess.ec.europa.eu/jobs/search?keyword=s=inserm>



EURAXESS

JOBS &
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DEVELOPMENT

PARTNERING

INFORMATION
& ASSISTANCENATIONAL
PORTALSEURAXESS
WORLDWIDELOGIN /
REGISTER

Search for jobs

RESEARCH FIELD

RESEARCHER PROFILE

SECTOR

COUNTRY

EUROPEAN RESEARCH PROGRAMME

<https://euraxess.ec.europa.eu/><http://www.euraxess.fr/>



RESEARCH IN FRANCE

TALENTS

<https://www.campusfrance.org/en/researcher>



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RÉPUBLIQUE FRANÇAISE

EMBASSY OF FRANCE
IN THE UNITED STATES

OFFICE FOR SCIENCE
& TECHNOLOGY

INNOVATION

NETVA

YEI

French-American
Innovation Days

French-American
Climate Talks

Cafés des Sciences
Fête de la Science...

RESEARCH

**Office for Science
and Technology**

<https://www.france-science.org/>

STUDENT MOBILITY

Thomas Jefferson

Bilateral Funds

FADEX

Chateaubriand

Thank you for your attention