



HORIZON 2020

**The EU Framework
Programme for Research and
Innovation**

***Open to the World: Building
resilience through
international cooperation***

Dr. Mary Kavanagh

Minister-Counsellor, Research and Innovation
European Union Delegation to the USA

HORIZON 2020

What is Horizon 2020?



**The EU's programme
for research & innovation
2014-20**

€77 billion over 7 years

- EUROPE's research contribution to resolving global challenges with global partners
- Promotion of global mobility of researchers
- OPEN TO THE WORLD!

<http://ec.europa.eu/research/horizon2020>

Cooperative Research Projects

- **Societal Challenges**

- Health, demographic change and wellbeing
- Food security, sustainable agriculture, marine and maritime research & the bioeconomy
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action, resource efficiency and raw materials
- Inclusive and reflective societies
- Secure societies

- **Enabling and Industrial Technologies**

- ICT, nanotechnologies, materials, biotechnology, manufacturing, space

How International Cooperation Builds Resilience

- It offers economies of scale and scope
- Provides access to expertise, equipment and facilities
- Builds networks and alliances
- Offers opportunities for businesses and commercialization
- Career Development
- Cross disciplinary and Cross border fertilization of ideas

International cooperation is essential to tackle Global Challenges

Human Brain Project

- EU has earmarked 406 million Euro for this initiative, together with national funding it will reach 1 Billion Euro.
- The HBP is funding researchers to collect multi-level and multi-scale brain data, and to produce models and simulations to provide a first understanding of the brain's complex organization and functions.
- It is part of an **alliance of international Brain Research Initiatives** which also includes the US Brain Project as well as the initiatives in Japan, Korea and Australia .
- The objective is to leverage and align the efforts to maximize efficiency and the combined impact – maximizing the return on investment for taxpayers around the globe.

Global Health

Community engagement drives Ebola vaccine trial in Sierra Leone

To ensure the right person takes an Ebola trial vaccine at the right time in Sierra Leone, an EU-industry funded project is employing a combination of low-tech and high-tech community engagement strategies. Today, 450 adults and 96 adolescents are successfully enrolled in a two-stage vaccine trial.



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Project details

Project acronym:
EBODAC

Participants: UK,
Belgium, Ireland,
United States

Total costs:
€ 25 740 856

EU contribution:
€ 20 328 856

Duration:
December 2014 to
November 2017

Atlantic Ocean Observation

An integrated observing system for the Atlantic Ocean

Buoys, floats, moorings and research vessels, to name just a few examples - data about the state of the Atlantic is collected by a number of means. And by a profusion of actors, who could jointly produce even better results if they applied a common strategy. EU-funded researchers are driving the development of an integrated system.



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Project details

Project acronym:
AtlantOS

Participants: Germany (Coordinator), UK, Ireland, Denmark, France, Poland, Norway, Spain, Portugal, Netherlands, Faroe Islands, Belgium, Italy, Croatia, Canada, Brazil, United States, South Africa

Total costs:
€ 20 652 921

EU contribution:
€ 20 652 921

Duration:
April 2015 to June 2019



Examples of areas inviting US cooperation (US Flagships) Work Programme 2018-2020

Marine Arctic

- All Atlantic Ocean Alliance
- Cryosphere and risks

Health

- Mutual Opening for US,
- Multilateral cooperation

Transport

- Road automation,
- Aviation – green and safe

Energy

- Renewable fuels

Nano Safety

- Regulations
- Safe Design



EU - US Flagship cooperation examples

Automated Vehicles:

Call in 2019
30 million € funding

Specifically mentioned
for EU-US project
twinning with US
entities participating in
projects funded by the
US Department of
Transport

Additional countries
invited



Nano-Safety:

Call in 2018
28 million € funding

EU-US Collaboration is
strongly encouraged
and all projects are
expected to collaborate
with similar projects
under the Communities
of Research of the US
National
Nanotechnology
Initiative

Thank you!

#InvestEUresearch

www.ec.europa.eu/research

Participant Portal www



Rules of Participation

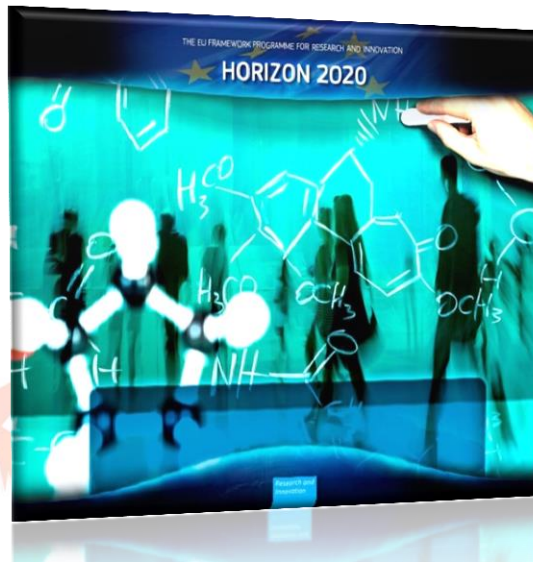
Minimum Conditions

- **For collaborative research projects:**

- 3 participants from different Member States or associated countries
In addition, participants from any other country in the world can also be included

- **For actions aimed at individuals, like European Research Council or Marie Skłodowska-Curie:**

- 1 researcher
- 1 host institution
- 1 project



Become an evaluator

- All research proposals submitted to H2020 are peer reviewed by independent experts.
- The EU is always interested to build up its database of potential expert evaluators, including from outside Europe.
- Much of the evaluation process is done remotely and is paid.
- If interested in applying:

<http://ec.europa.eu/research/participants/portal/desktop/en/experts/index.html>

Participant Portal – your one-stop shop

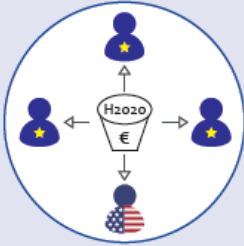
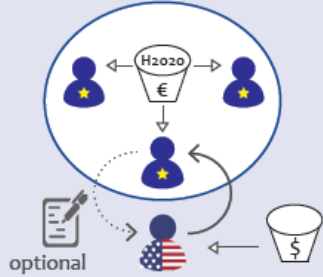
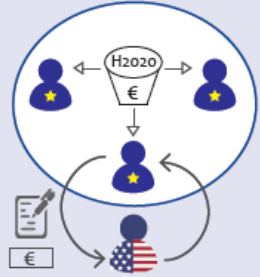
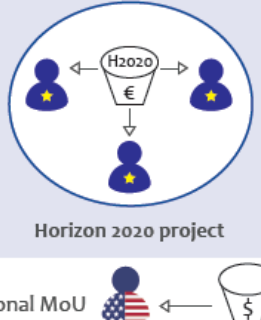
- **Topics**
- **Documents**
- **Rules for participation**
- **Online manual**
- **E-submission**



<http://ec.europa.eu/research/participants/portal>

<http://ec.europa.eu/research/horizon2020>

4 ways for US researchers to participate in Horizon 2020

| | I. Standard Horizon 2020 Terms | II. Article 14a "International Partners" | III. Regular 3 rd party (e.g. subcontract or legal link, EU definition) | IV. EU-U.S. Implementing Arrangement |
|---------------------------------------|---|---|---|---|
| |  <p>Horizon 2020 project</p> |  <p>Horizon 2020 project</p> |  <p>Horizon 2020 project</p> |  <p>Horizon 2020 project</p> <p>optional MoU</p> |
| Considered as: | Beneficiary | U.S. as International Partner - Specific third party linked to one (or more) beneficiaries | Third Party (linked to beneficiary either via sub-contract (Art. 13) or legal link (Art. 14)) | EU as Beneficiary U.S. as "Research Partner" to the project |
| Form of funding: | EU funding from Horizon 2020 in exceptional cases possible and SC1 | EU partner funded via H2020 U.S. partner brings own funding | Payment for service (subcontract) or funding for task possible (legal link) from linked beneficiary | EU Partner: Horizon 2020 U.S. partner: brings U.S. funding |
| Agreement with funding organisations: | H2020 Grant Agreement | No legal obligation to sign an agreement, but U.S. International partner must be named in Grant Agreement | EU Partner: Grant Agreement U.S. Partner: Subcontract or legal link with beneficiary | EU Partner: H2020 Grant Agreement U.S. Partner: signs own agreement with their funding organisation |
| Agreement in consortium: | Consortium Agreement in accordance with H2020 regulations All parties share complete workload | Can sign MoU or alternative agreement U.S. partner has responsibility for specific task | Specific service/task (subcontract) or task (legal link 3 rd party) defined in contract between H2020 partner and U.S. entity; no further information on project data than that regarding assigned service or task is provided | Can sign MoU or alternative agreement |
| Form of Reporting: | In accordance with H2020 regulations (and via Participant Portal) | EU partner in accordance with H2020 regulations and can report about U.S. International Partner U.S.: in accordance with US funding organization but reports to EU partner | Subcontractor is paid via invoice to linked beneficiary. EU beneficiary receives money from H2020 | EU partner: in accordance with H2020 regulations, U.S.: in accordance with U.S. funding organisation |

For further information

- **Participant Portal**

<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>

- **Helpdesk**

<http://ec.europa.eu/research/enquiries>

- **National Contact Points**

http://ec.europa.eu/research/participants/portal/desktop/en/support/national_contact_points.html

- **Expert evaluators needed!**

<http://ec.europa.eu/research/participants/portal/desktop/en/experts/index.html>

- **Learn more about Horizon 2020**

<http://ec.europa.eu/horizon2020>

THANK YOU!



Bilateral Coordination for the Enhancement and
Development of S&T Partnerships between the
European Union and the United States of America

BILAT USA 4.0

Presented by

Claire Chen

NCURA Global

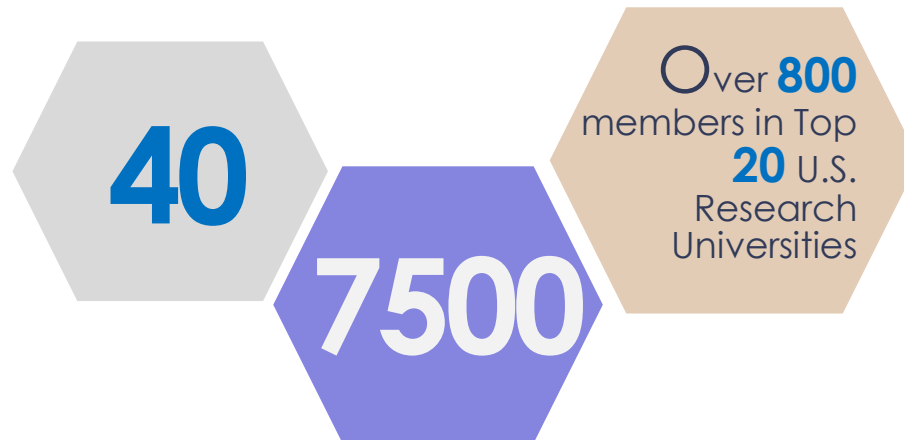
National Council of University Research Administrators

About NCURA



- Our Members – Research Administrators
- 3 Annual Conferences
- Horizon 2020 Pilot National Contact Point

Claire Chen, chen@ncura.edu



Mission

Funded by the European Union, the [BILAT USA 4.0](https://www.bilat-usa.eu/) project aims to:

1. Facilitate the policy dialog
2. Foster transatlantic research partnerships
3. Identify emerging research topics
4. Engage the private sector

<http://www.euussciencetechnology.eu/>

Consortium partners



6 U.S. Partners

- Universities
- Think Tanks
- University Association

10 EU Partners

- Private Companies
- Government Agencies & affiliated organizations
- University
- Research Institutions

How can Bilat USA 4.0 Help?

1. Up-to-date information and news (Website and social media)
2. Informational Webinars and Training Programs
3. Resources
4. Nationwide information system
5. Connecting Researchers, Policy-makers, and Private Sector

<http://www.euussciencetechnology.eu/>

➤ Report on EU Funding Program for U.S. Researchers

- National Level Funding
- Regional Level Funding

➤ Database

<http://www.euussciencetechnology.eu/funding>

➤ **Report on U.S. Funding Opportunities for EU Researchers**

- Federal Agencies
- Non-Federal Agencies/ Private Foundations
- Additional Resources

➤ **Database**

<http://www.euussciencetechnology.eu/funding>

Funding

Type

- ▾

Origin of the Programme

- ▾

-

EU

MS/AC

US Government

US non-government

Thematic Area

- ▾

Target Group

Funding

BILAT USA 4.0 aims to facilitate research and innovation cooperation between researchers and companies with various networking and partnering activities. Additionally, main research and innovation programmes as well as reciprocal funding opportunities between EU and USA will be announced on this portal.

Horizon 2020

- Calls Targeting International Cooperation

ERA Funding Platforms- Transnational Initiatives

S&T Implementing Arrangements between U.S. Government Entities and the European Commission

S&T Agreements between EU and Member States/Associated Countries and U.S.

Guide on H2020 for U.S. Based Researchers

To help US researchers to find opportunities to collaborate with European researchers in H2020

- Database H2020 Structure
- Identify specific opportunities
- Explains specific rules and regulations for participation and Funding in Europe
- How to prepare and application, negotiate grant and consortium agreement
- Manage a project
- Protect project intellectual property rights

<http://www.euussciencetechnology.eu/documents>

➤ Terminology Guide

- Obstacle of research collaboration
- Wiki format

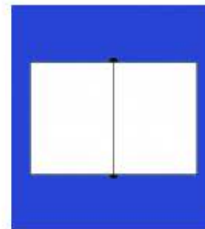
| | |
|---------------|----------------------|
| Cost-Share | In-kind Contribution |
| Sub-recipient | Third Party |
| F&A Rate | Indirect Cost |

➤ Link: https://bilat-wiki.ethz.ch/wiki/Main_Page

Main Page

Welcome to the *Terminology MediaWiki*

The *Terminology MediaWiki* is an online platform that aims to explain and juxtapose EU and US funding terminologies. If you know whether you are looking for a specific EU and/or US term, you can go directly either to the [European Terms](#) or the [US Terms](#) section. Otherwise please consult the [Glossary](#).



Glossary



EU-Terms



US-Terms



Help



How to use



FAQ

| EU | US |
|---|--|
| Accession forms | Subaward |
| Account Administrator | Account Administrator |
| Amendment | Modification |
| Annex | Appendix |
| Annotated Model Grant Agreement | Research Terms and Conditions |
| Applicant | Applicant |
| Award | Award |
| Background | Background Inventions |
| Beneficiary Register | System for Award Management |
| Budget | Budget |
| Call for proposals | Funding Opportunity Announcement |
| Call Identifier | Opportunity Number |

➤ Transnational Researchers Career Program

- Program for postdocs and PhD students
- Pre-award and Post-award training for both EU and US funding
- Career needs for International research administrators
- Spearheaded by ETH Zurich and Harvard University

The logo for ETH zürich, with "ETH" in a bold, italicized sans-serif font and "zürich" in a regular, lowercase sans-serif font.

HARVARD
UNIVERSITY

ENRICH in the USA - Research Connection Symposium August 8th, Washington, D.C.



<https://usa.enrichcentres.eu/>

Thank you!

Claire Chen

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National Council of University Research Administrators

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<http://www.ncura.edu>

More info:

<http://www.euussciencetechnology.eu>



/BilatUs4.0



/groups/4827861



/BILATUSA40



EURAXESS

«Researchers in Motion»

<https://euraxess.ec.europa.eu>

What's in it for you?



Jobs & Funding



Partnering Tool & Hosting



Information & Assistance

EURAXESS Service Centers



EURAXESS Worldwide

(ASEAN, China, India, Japan, LAC, North America)

Marie Skłodowska-Curie Actions (MSCA)



The Actions provide funding for excellent researchers, encourage mobility across borders and sectors and foster collaboration among individuals and institutions.

MSCA: European Union's main programme for researcher training and career development through mobility

Budget 2014-2020: € 6.162 billion



MSCA - Features

- Open to **all** career **stages and nationalities**
- **Bottom-up** approach
- **International**, intersectoral and interdisciplinary
- **Hosting** talented foreign researchers, creating **strategic partnerships**
- Equipping researchers with **necessary skills** and **international careers**
- Attractive **career** and **knowledge-exchange** opportunities through **mobility**
- **Good working conditions** and **social benefits**

Marie Skłodowska-Curie Actions



ITN Innovative Training Networks

What does it offer?

High-quality research training delivered through international and interdisciplinary networks, industrial doctorates or joint doctorates

Who applies?

International networks of research organisations from the academic and non-academic sectors

Who is funded?

Researchers at doctoral level (less than four years of full-time research experience and no doctoral degree)



IF Individual Fellowships

What does it offer?

Opportunities to work on personal research projects by moving between countries and possibly sectors to acquire new skills

Who applies?

Individual researchers together with the host organisation

Who is funded?

Postdoctoral researchers



RISE Research and Innovation Staff Exchange

What does it offer?

The exchange of staff members involved in research and innovation to develop sustainable collaborative projects and the transfer of knowledge

Who applies?

International networks of research organisations from the academic and non-academic sectors

Who is funded?

Researchers, technical, administrative and managerial staff of any nationality and at all career levels



COFUND Co-Funding of Regional, National and International Programmes

What does it offer?

Regional, national or international programmes to foster excellence in researchers' training, mobility and career development

Who applies?

Organisations funding or managing doctoral programmes or fellowship programmes

Who is funded?

Researchers at doctoral and postdoctoral level



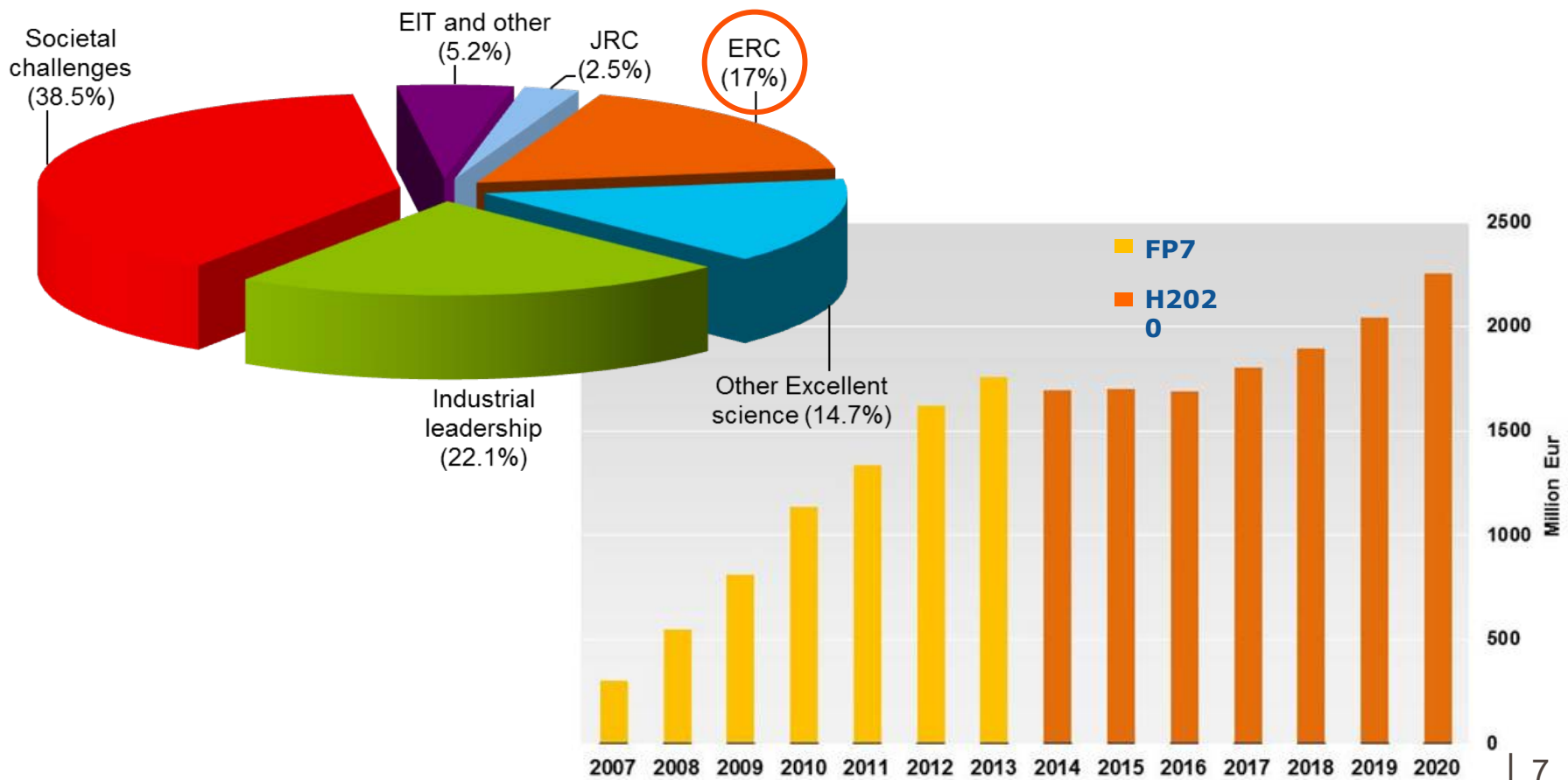
Statistics: IF 2014-2017 Calls

Overall success rate: **13%**
Success rate of US nationals: **18%**

| Year of the Call | Number of applications with US nationals | Funded projects for US nationals | Number of US institutions hosting a fellow |
|------------------|--|----------------------------------|--|
| 2014 | 212 | 37 | |
| 2015 | 247 | 42 | |
| 2016 | 262 | 49 | |
| 2017 | 277 | 53 | x |
| Total | 998 | 181 | 99 |

Horizon 2020 Budget € 77 billion

ERC Budget € 13 billion





What does ERC offer?

ERC offers independence, recognition & visibility

- to work on a research topic of **own choice**, with a team of **own choice**
- to gain true **financial autonomy** for 5/6 years
- to negotiate with the host institution the **best conditions** of work
- to attract **top team members** (EU and non-EU) **and collaborators**
- to move with the grant to any place in Europe if necessary (**portability of grants**)
- **to attract additional funding and gain recognition**; ERC is a quality label

ERC Grant Schemes

Starting Grants

starters
2-7 years after PhD
($\geq 50\%$ commitment)
up to € 2.0 Mio
for 5 years

Consolidator Grants

consolidators
7-12 years after PhD
($\geq 40\%$ commitment)
up to € 2.75 Mio
for 5 years

Advanced Grants

track-record of
significant research
achievements in the
last 10 years
($\geq 30\%$ commitment)
up to € 3.5 Mio
for 5 years

Synergy Grants

2 – 4 Principal Investigators
up to € 14.0 Mio for 6 years

Participation of non-EU/AC nationals: 30 non-EU/AC nationalities

Almost 8% of all ERC grants to principal investigators of non-EU/AC nationality

| Non-EU/AC Principal Investigators | Starting and Consolidator grants | Advanced grants | Total grants |
|-----------------------------------|----------------------------------|-----------------|--------------|
| USA | 162 | 93 | 255 |
| Canada | 60 | 10 | 70 |
| Russia | 40 | 9 | 49 |
| India | 43 | 2 | 45 |
| Australia | 37 | 6 | 43 |
| Japan | 23 | 6 | 29 |
| China | 27 | 0 | 27 |
| New Zealand | 10 | 6 | 16 |
| Argentina | 15 | 0 | 15 |
| Other | 64 | 8 | 72 |
| Total | 481 | 140 | 621 |

EURAXESS North America: WHAT we do and HOW



Linking researchers in
North America to Europe



Information on European
funding opportunities



Research career
development



Thank you!

Viktoria Bodnarova
EURAXESS North America
Regional Representative

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EURAXESS North America



@euraxess_na



Join our North America [Community](#)



EURAXESS Links – Internationally
Mobile Researchers