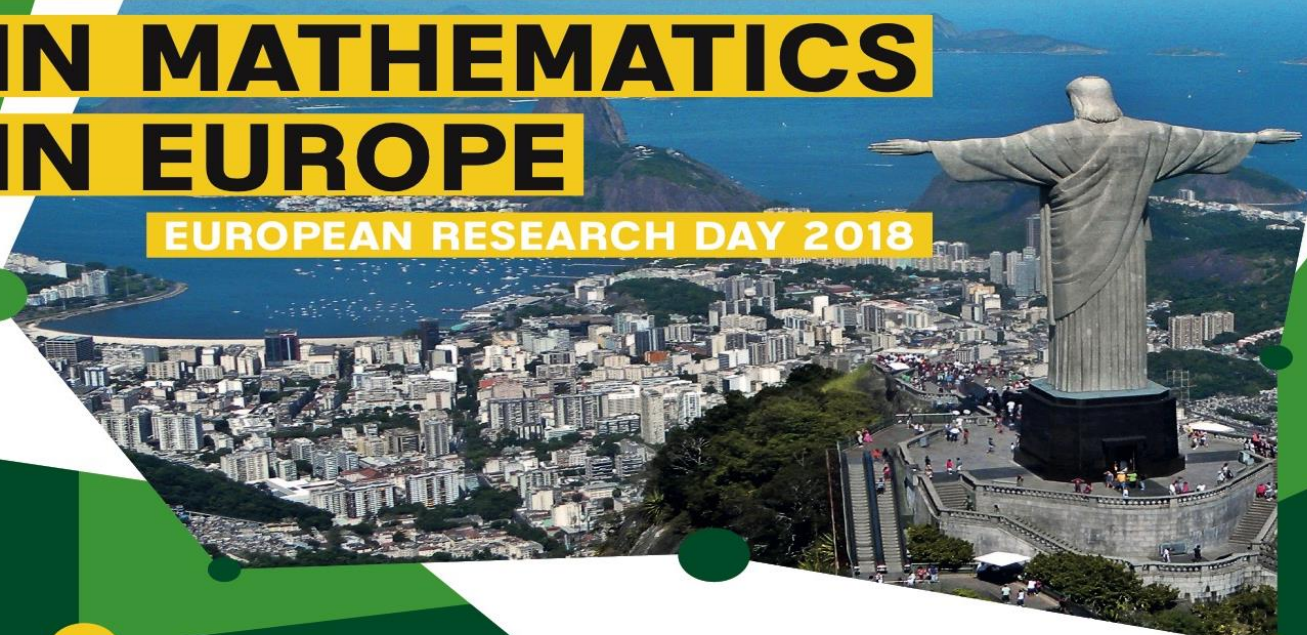


EU FUNDING AND TOOLS TO CARRY OUT MATHEMATICAL RESEARCH IN EUROPE

**ADVANCE
YOUR RESEARCH
IN MATHEMATICS
IN EUROPE**

EUROPEAN RESEARCH DAY 2018



Fomentos e ferramentas europeus para realizar pesquisa matemática na Europa

Conteúdo

01.

Marie Skłodowska Curie Actions (MSCA)

02.

European Research Council (ERC)

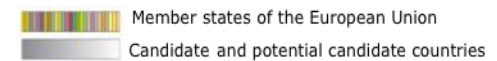
03.

EURAXESS

A União Europeia



- 28 países
- 500 milhões de pessoas
- 7% da população mundial
- 24% dos investimentos em pesquisa mundiais
- 32 Universidades Europeias no Top 100 mundial
- Um único mercado*

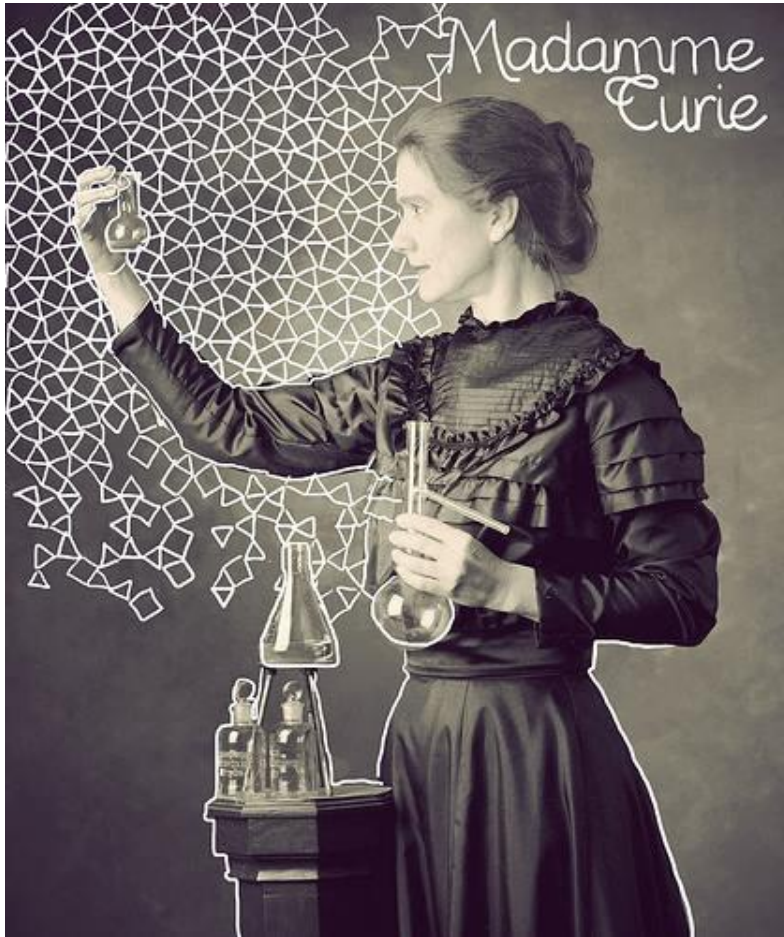


*Livre circulação de pessoas, mercadorias, serviços e capitais

Fomentos da pesquisa pela Comissão Europeia

Marie Sklodowska Curie Actions (MSCA)

Marie Skłodowska Curie Actions (MSCA)



- ❖ **Formação de excelência** em Pesquisa e Inovação
- ❖ Oportunidades de **carreira**
- ❖ **Troca de conhecimentos** por meio da **mobilidade** internacional e intersetorial

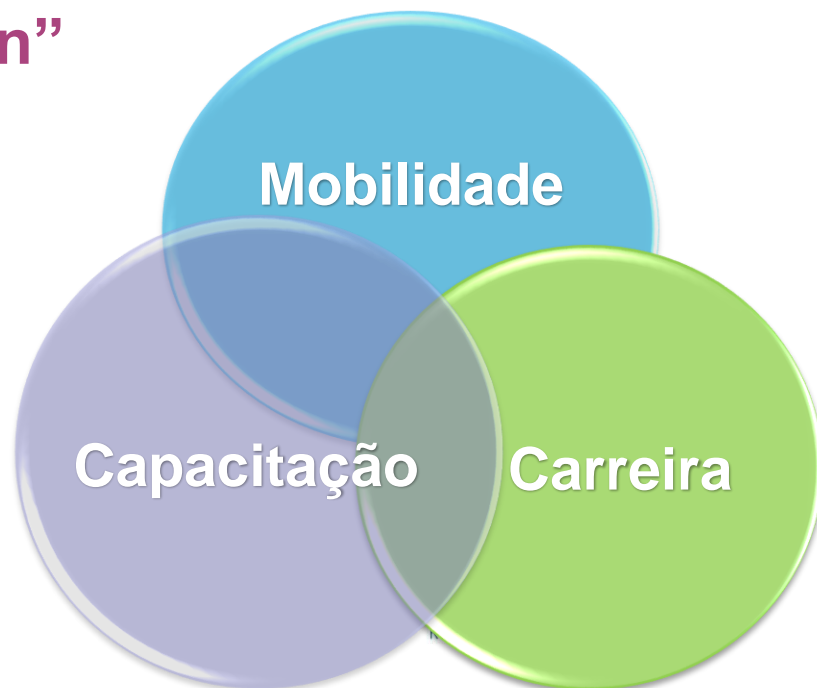


Ações Marie Skłodowska-Curie - MSCA

Objetivos

“Assegurar o melhor desenvolvimento do capital intelectual da Europa e usa-lo de maneira a criar novas habilidades, conhecimento e inovação”

”Brain gain and brain circulation”



MSCA - Características principais

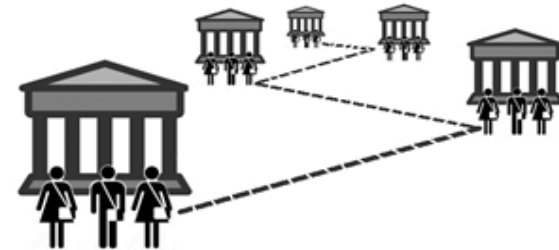
Orçamento 2014-2020: 6,162 bilhões €

- **Bottom-up**
- **Mobilidade** é um requisito obrigatório
- **Global:** aberto aos pesquisadores/staff de
 - todas as **nacionalidades**,
 - todos os **níveis de experiência**,
 - todas as **áreas do conhecimento e inovação**.
- **Inovação:** participação de organizações não acadêmicas encorajado

MSCA – Tipos de ações



IF
Individual Fellowships



RISE
Research and Innovation
Staff Exchange



ITN
Innovative Training Networks



COFUND
Co-funding of regional, national
and international programmes

MSCA para os **pesquisadores** sediados no Brasil

Pesquisadores Brasileiros ou sediados no Brasil são elegíveis às MSCA para:

Realizar um DOUTORAMENTO na Europa (ITN & Cofund)

Doutoramento na Europa (ITN/Cofund) => anunciados no portal EURAXESS Jobs

jobs.euraxess.org

EURAXESS - Researchers in Motion

European Commission

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Search for jobs

Enter keywords

RESEARCH FIELD

RESEARCHER PROFILE

SECTOR

COUNTRY

EUROPEAN RESEARCH PROGRAMME 1 selected

- FP7 / People-Marie Curie Actions (11)
- FP7 / People-Marie Curie Actions COFUND (7)
- H2020 (103)
- H2020 / ERC (47)
- H2020 / Marie Skłodowska-Curie Actions (176)
- H2020 / Marie Skłodowska-Curie Actions COFUND (5)
- Not funded by an EU programme (4240)

SEARCH NEED HELP?

MSCA para os **pesquisadores** sediados no Brasil

Pesquisadores Brasileiros ou sediados no Brasil são elegíveis às MSCA para:

Realizar um DOUTORAMENTO na Europa (ITN & Cofund)

Realizar um pós-doc (IF)

Chamadas anuais (abril-setembro 2018)

Candidatura com uma instituição de acolhimento, do setor acadêmico ou não

Bolsas generosas, prestigiosas e competitivas

MSCA para **instituições** brasileiras

Instituições brasileiras (públicas, privadas, do setor acadêmico ou não) podem participar de:

- **rede inovadora de formação com parceiros europeus (ITN)**
 - **projetos conjuntos de pesquisa e inovação implementados graças à mobilidade curta do seu staff (RISE)**
- => ITN&RISE: parte brasileira traz co-fomento
- **receber gratuitamente um pesquisador sediado na Europa, para até 2 anos (IF)**

Chamadas MSCA 2018

ITN	13/09/2018 – 15/01/2019	€ 470 million
RISE	22/11/2017 – 21/03/2018	€ 80 million
IF	12/04/2018 – 12/09/2018	€ 273 million
COFUND	12/04/2018 – 27/09/2018	€ 80 million



MSCA para os Brasileiros – Recursos adicionais

Ponto focal no Brasil (MSCA NCP) :

Elisa Natola, CONFAP: elisa.confap@gmail.com

Pontos focais MSCA na Europa: bit.ly/Horizon_NCP

Associação de alumni brasileiros:

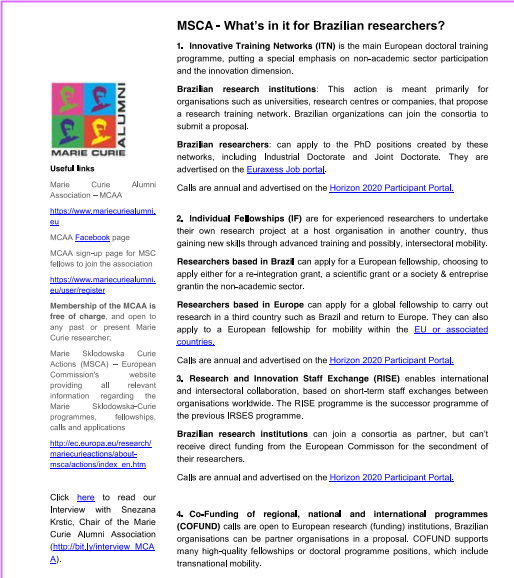
<https://www.mariecuriealumni.eu>

Video [MSCA in a nutshell](#)

Focus MSCA - What's in it for Brazil?

<http://bit.ly/FocusMSCA>

MSCA IF Guide for applicants
[aqui](#) (2018)



MSCA - What's in it for Brazilian researchers?

1. Innovative Training Networks (ITN) is the main European doctoral training programme, putting a special emphasis on non-academic sector participation and the innovation dimension.

Brazilian research institutions: This action is meant primarily for organisations such as universities, research centres or companies, that propose a research training network. Brazilian organizations can join the consortia to submit a proposal.

Brazilian researchers: can apply to the PhD positions created by these networks, including Industrial Doctorate and Joint Doctorate. They are advertised on the [Euraxess Job portal](#).

Calls are annual and advertised on the [Horizon 2020 Participant Portal](#).

2. Individual Fellowships (IF) are for experienced researchers to undertake their own research project at a host organisation in another country, thus gaining new skills through advanced training and possibly, intersectoral mobility.

Researchers based in Brazil can apply for a European fellowship, choosing to apply either for a re-integration grant, a scientific grant or a society & enterprise grant in the non-academic sector.

Researchers based in Europe can apply for a global fellowship to carry out research in a third country such as Brazil and return to Europe. They can also apply to a European fellowship for mobility within the [EU or associated countries](#).

Calls are annual and advertised on the [Horizon 2020 Participant Portal](#).

3. Research and Innovation Staff Exchange (RISE) enables international and intersectoral collaboration, based on short-term staff exchanges between organisations worldwide. The RISE programme is the successor programme of the previous IRSES programme.

Brazilian research institutions can join a consortia as partner, but can't receive direct funding from the European Commission for the secondment of their researchers.

Calls are annual and advertised on the [Horizon 2020 Participant Portal](#).

4. Co-Funding of regional, national and international programmes (COFUND) calls are open to European research (funding) institutions, Brazilian organisations can be partner organisations in a proposal. COFUND supports many high-quality fellowships or doctoral programme positions, which include transnational mobility.

Brazilian researchers can apply directly to COFUND positions advertised on

Useful links

Marie Curie Alumni Association - MCAA
<https://www.mariecuriealumni.eu>
MCAA Facebook page
MCAA sign-up page for MSC fellows to join the association
<https://www.mariecuriealumni.eu/subscribe>

Membership of the MCAA is free of charge, and open to any past or present Marie Curie researcher.

Marie Skłodowska Curie Actions (MSCA) – European Commission's website providing all relevant information regarding the Marie Skłodowska-Curie programmes – fellowships, calls and applications
http://ec.europa.eu/research/mariefund/en/about/mariefund/index_en.htm

Click [here](#) to read our Interview with Snezana Krstic, Chair of the Marie Curie Alumni Association (http://bit.ly/interview_MCAA).

The European Research Council



erc

**European research day
EURAXESS Brazil
Italian Institute in Rio de Janeiro
Rio, 4 August 2018**

What does ERC offer?

ERC Grant Schemes



European Research Council
Established by the European Commission

Starting Grants

2-7 years after PhD
(≥ 50% commitment)
up to €1.5 Million
for 5 years

Consolidator Grants

7-12 years after PhD
(≥ 40% commitment)
up to €2 Million
for 5 years

Advanced Grants

track-record of
significant research
achievements in the
last 10 years
(≥ 30% commitment)
up to €2.5 Million
for 5 years

Proof-of-Concept

bridging gap between research - earliest stage
of marketable innovation
up to €150,000 for ERC grant holders only

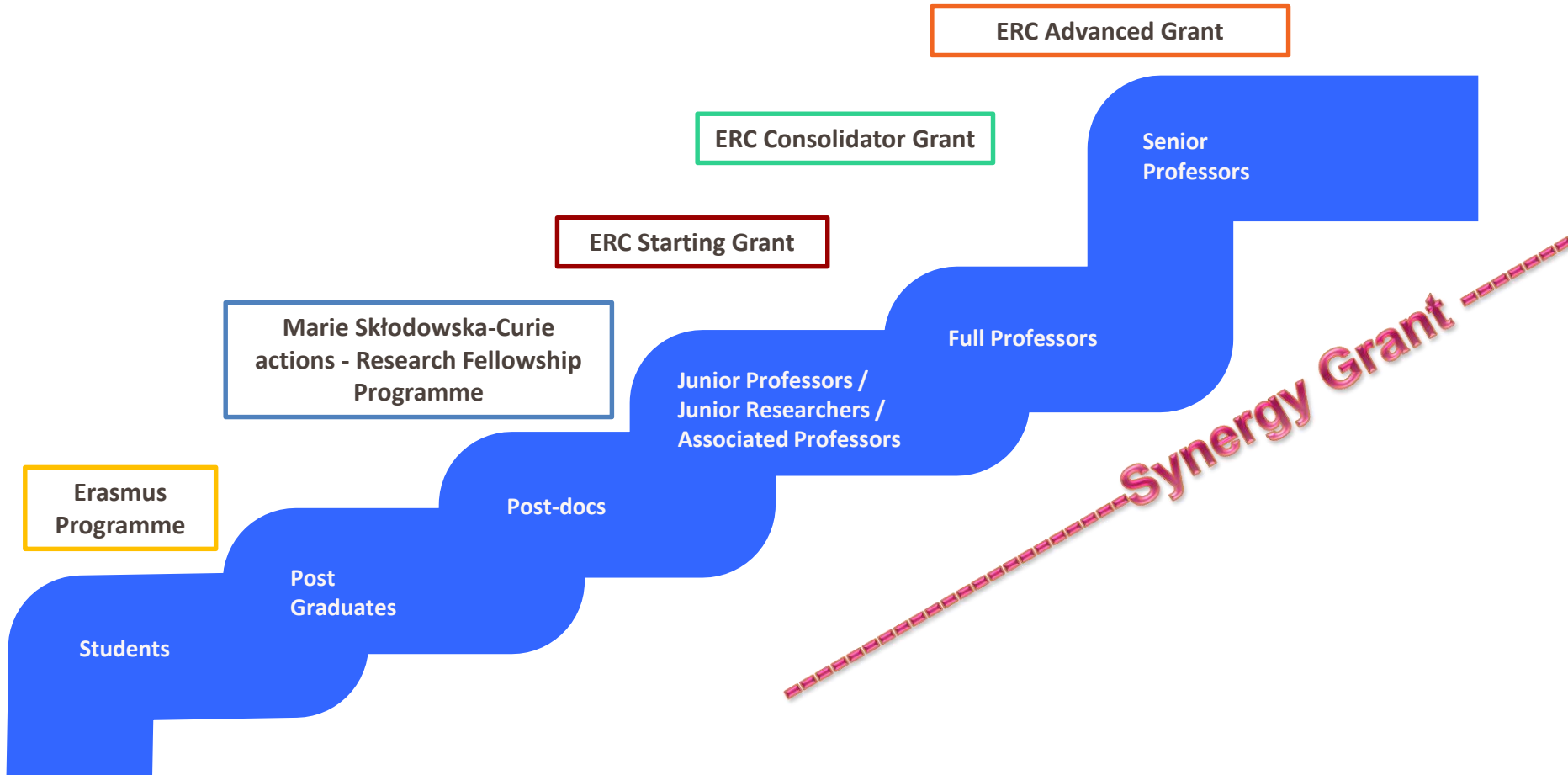
Synergy Grants

2-4 PIs up to €10 million for 6 years
to lead to breakthroughs that cannot be
achieved by a PI working alone

Complementary Funding Schemes



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How ERC research proposals are evaluated?

***Excellence* is the sole evaluation criterion**



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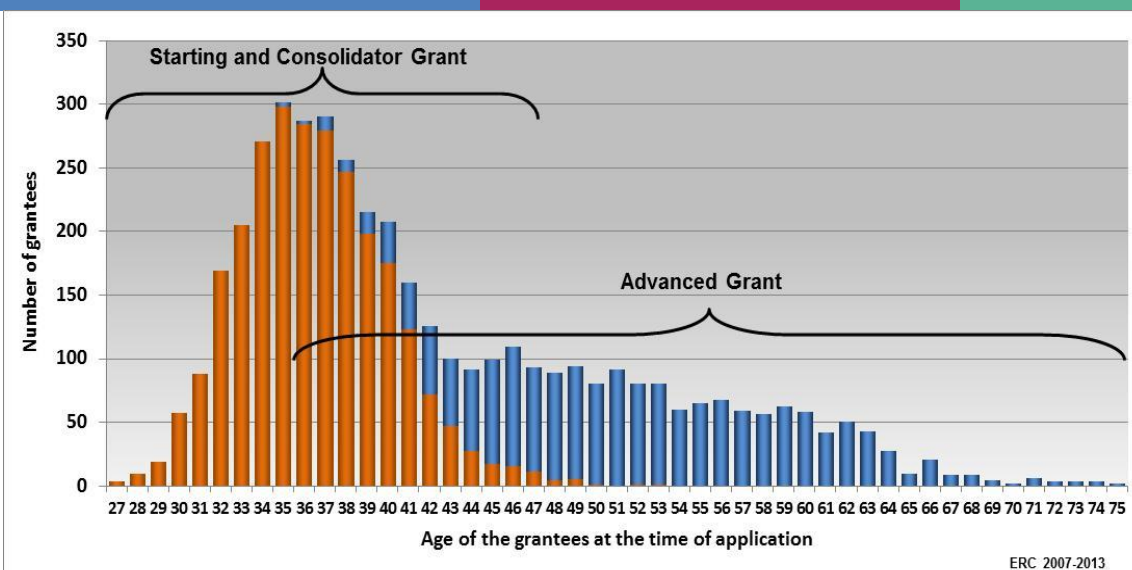
Evaluation of *excellence* at two levels:

- **Excellence of the Research Project**
 - ✓ Ground breaking nature
 - ✓ Potential impact
 - ✓ Scientific Approach
- **Excellence of the Principal Investigator**
 - ✓ Intellectual capacity
 - ✓ Creativity
 - ✓ Commitment

Priority to Young Scientists

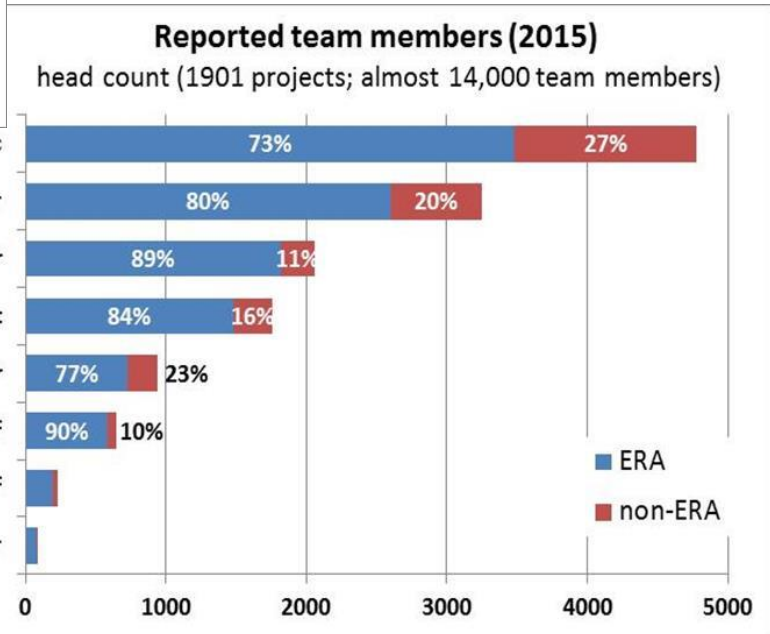


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+ 40 000 PhD and post-doc researchers working in ERC teams.

Two-thirds of ERC grants to early-career Principal Investigators.



Evaluation Panel Structure 2019



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Each panel: Panel Chair
and 10-16 Panel Members

Life Sciences

- LS1 Molecular Biology, Biochemistry, Structural Biology and Molecular Biophysics
- LS2 Genetics, 'Omics', Bioinformatics and Systems Biology
- LS3 Cellular and Developmental Biology
- LS4 Physiology, Pathophysiology and Endocrinology
- LS5 Neuroscience and Neural Disorders
- LS6 Immunity and Infection
- LS7 Applied Medical Technologies, Diagnostics, Therapies and Public Health
- LS8 Ecology, Evolution and Environmental Biology
- LS9 Applied Life Sciences, Biotechnology and Molecular and Biosystems Engineering

Physical Sciences & Engineering

- PE1 Mathematics
- PE2 Fundamental Constituents of Matter
- PE3 Condensed Matter Physics
- PE4 Physical and Analytical Chemical Sciences
- PE5 Synthetic Chemistry and Materials
- PE6 Computer Science and Informatics
- PE7 Systems and Communication Engineering
- PE8 Products and Processes Engineering
- PE9 Universe Sciences
- PE10 Earth System Science

Social Sciences and Humanities

- SH1 Individuals, Markets and Organisations
- SH2 Institutions, Values, Environment and Space
- SH3 The Social World, Diversity, Population
- SH4 The Human Mind and Its Complexity
- SH5 Cultures and Cultural Production
- SH6 The Study of the Human Past

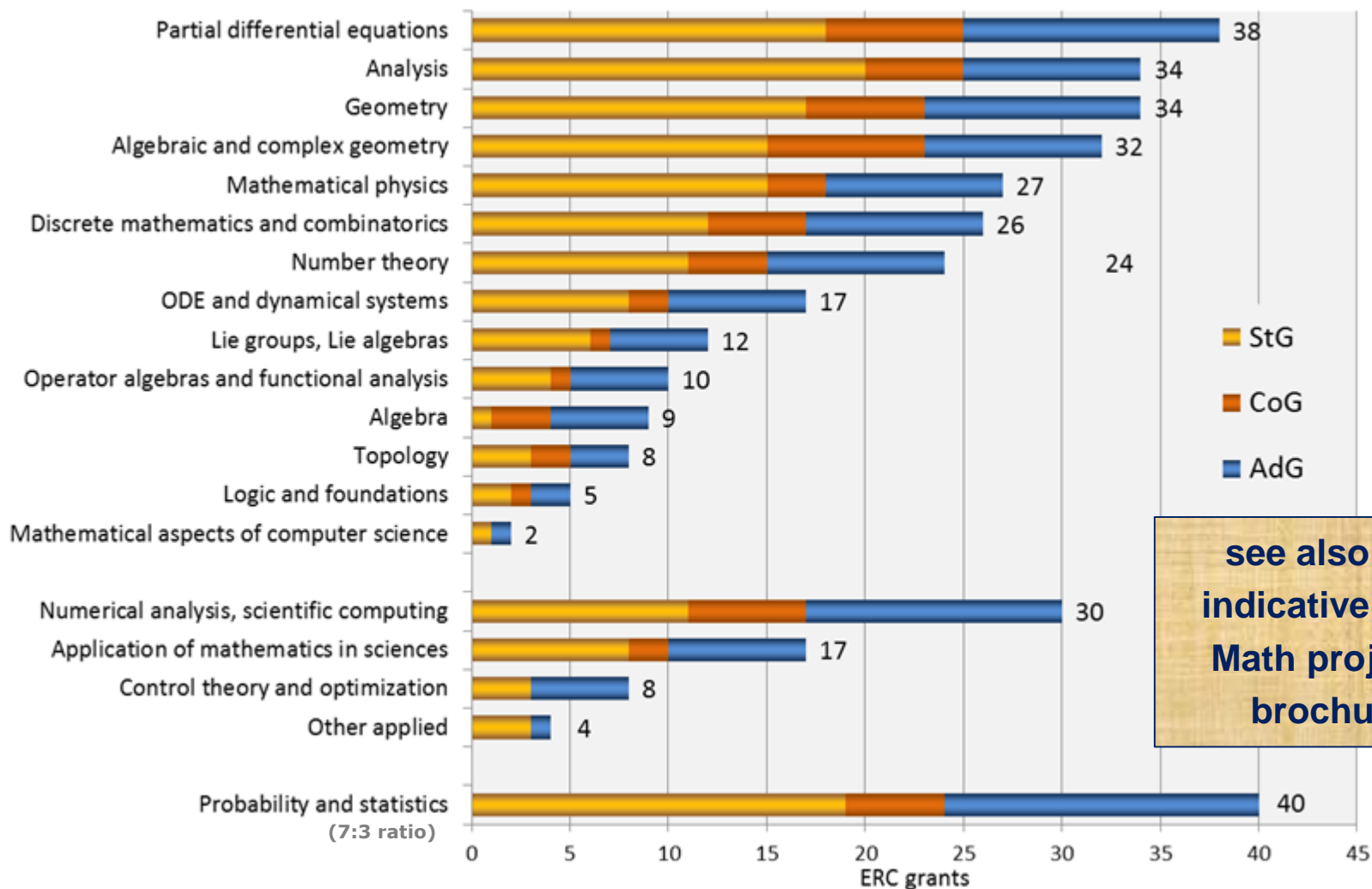
PE1 Mathematics: All areas of mathematics, pure and applied, plus mathematical foundations of computer science, mathematical physics and statistics



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(Panel descriptors do not represent ERC scientific priorities)

377 projects in mathematics funded 2007-2017



see also the
indicative ERC
Math projects
brochure

Researchers of any nationality, also if (at the time of application) based outside Europe, can apply to the ERC



(HI to be in EU or Associated Country – PI \geq 50% of working time in EU or AC)

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- Additional funding is available to cover 'start-up' costs for scientists moving to Europe (up to €500 000 for Starting grantees, up to €750 000 for Consolidator grantees and up to € 1 000 000 for Advanced grantees).
- Dual affiliation is also possible: ERC grantees are required to spend 50% of their time in Europe



38 Non-EU/Associated Countries PI Nationalities



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645 ERC grants (8% of total) go to principal investigators who are Third Country nationals

Non-EU/AC Principal Investigators	Starting and Consolidator grants	Advanced grants	Total grants
USA	162	107	269
Canada	60	14	74
Russia	40	9	49
India	43	3	46
Australia	37	7	44
Japan	23	7	30
China	27	0	27
New Zealand	10	7	17
Argentina	16	1	17
Brazil	6	1	7
Other	64	8	65
Total	488	164	645



Attracting Bright Minds from around the World

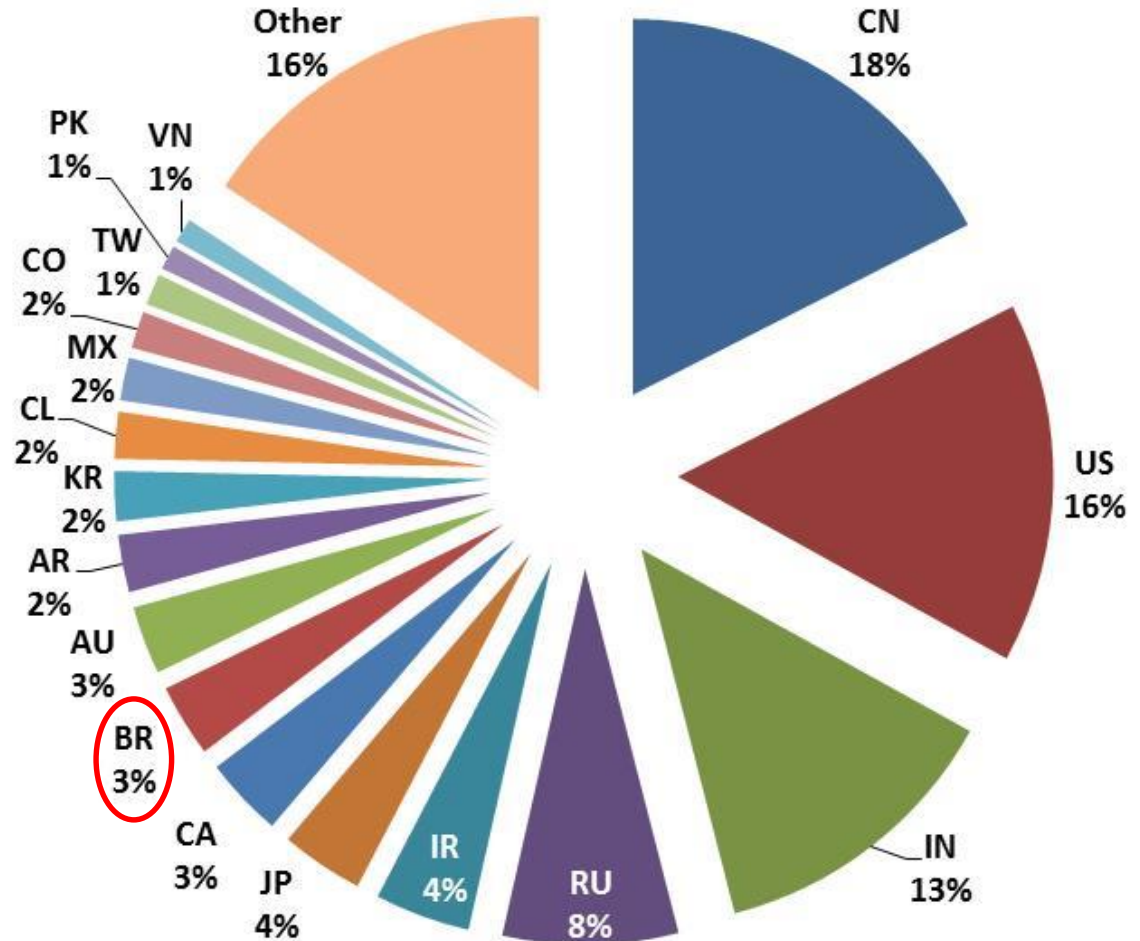
Nationality of ERC project team members
(PIs not included)



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In all ERC grants
+ 10,000 non-ERA
team members

There are currently an estimated **270** team members of Brazilian nationality engaged in ERC projects.

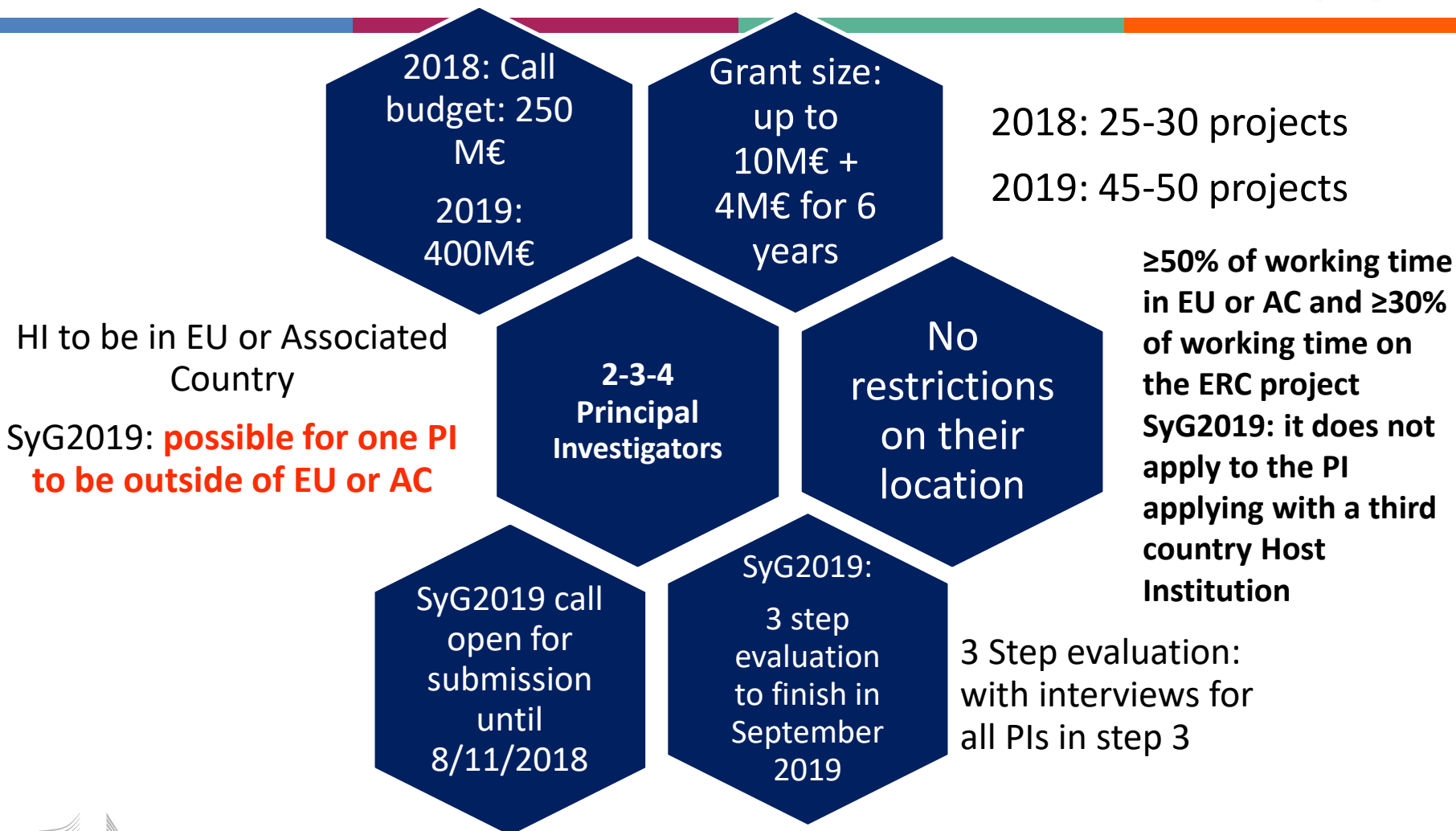


Design of the Synergy call in a nutshell

Information on SyG2019 is pending on the adoption of the ERC 2019 Work Programme at the end of July 2018



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Implementing Arrangements



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Promote opportunity for non-European researchers supported by national agencies to visit ERC research teams

- United States, signed July 2012 with the National Science Foundation (NSF)
- Korea, signed November 2013 with the Ministry of Science, ICT and Future Planning
- Argentina signed in March 2015 with the Ministry of Science, Technology and Productive Innovation
- Japan, signed May 2015 with the Society for the Promotion of Science (JSPS)
- China, signed in June 2015 with the National Natural Science Foundation (NSFC)
- South Africa, signed in October 2015 with the National Research Foundation (NRF)
- Mexico, signed in November 2015 with the Mexican National Council of Science and Technology (Conacyt)
- **Brazil, signed in October 2016 with the Brazilian National Council of the State funding agencies (CONFAP)**
- Canada, signed in October 2016 with the Tri-agency Institutional Programs Secretariat
- India, signed in October 2017 with the Scientific Engineering Research Board (SERB)

Implementing arrangements

2012-2017

(about 300 ERC grantees express interest each year to host non-EU/AC researchers)



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Number of non-EU research visitors by year and by country						
Country	2012	2013	2014	2015	2016	Total
India						0
Canada						3
Mexico						5
Brazil						12
Argentina					5	4
China					11	12
Japan					3	13
South Africa					5	2
Republic of Korea			31	28	20	30
USA	12	23			11	
Total	12	54	28	55	81	230

Brazil, signed October 2016 with Brazilian National Council of the State funding agencies (CONFAP)

Destination countries of Brazilian visitors: Denmark, Portugal, France, UK, Sweden, Belgium, Netherlands, Germany, Italy



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Implementing arrangements – Brazil

- Local call by CONFAP (The Brazilian National Council of State Funding Agencies) and CNPq (National Council for Scientific and Technological Development) is currently open until 30 August 2018
- Active researchers from Brazil, holding a PhD, who are conducting research at Brazilian universities, institutes or research centers can express their interest in joining ERC funded teams in Europe for 6 to 12 months visits
- They will then receive a list of ERC PIs who have expressed their interest to receive Brazilian researchers, will contact them and negotiate a joint work plan

Indicative summary main calls 2019 provisional budget



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ERC Calls	Call date	Submission Deadline	Budget € M (est. grants)
Starting Grants ERC-2019-StG	~mid-September 2018	17 October 2018	580 (390)
Consolidator Grants ERC-2019-CoG	24 October 2018	7 February 2019	602 (314)
Advanced Grants ERC-2019-AdG	21 May 2019	29 August 2019	390 (166)
Synergy Grants ERC-2019-SyG	~mid-September 2018	8 November 2018	400 (48)

The European Research Council



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- More information: erc.europa.eu
or watch: <https://player.vimeo.com/video/154715819>
<https://vimeo.com/94179654>
- Sign up for news alerts: erc.europa.eu/keep-updated-erc
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Thank you !

Realizar pesquisa matemática na Europa Como EURAXESS pode ajuda-l@s?

Charlotte Grawitz, EURAXESS Brazil
European Research Day, 8 de agosto de 2018



EURAXESS é uma iniciativa da Direção geral para a
pesquisa e a inovação da Comissão Europeia



Sobre EURAXESS



 European Commission | EURAXESS is a European Commission's Directorate-General for Research and Innovation Initiative

EURAXESS é uma **iniciativa da Comissão Europeia**, apoiando a mobilidade de pesquisadores desde 2003.

Fornece **GRATUITAMENTE informações e serviços**, inclusive sobre fomentos.

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SECTOR

COUNTRY

EUROPEAN RESEARCH PROGRAMME

SEARCH

NEED HELP?

Available Offers (5181)





Search for jobs

Enter keywords

RESEARCH FIELD

1 selected

RESEARCHER PROFILE

SECTOR

COUNTRY

EUROPEAN RESEARCH PROGRAMME

- Language sciences (180)
- Literature (72)
- Mathematics (378)
- Medical sciences (1254)
- Neurosciences (164)
- Other (205)
- Pharmacological sciences (141)
- Philosophy (65)

SEARCH

NEED HELP?

Your search results (378)

Selected:

Mathematics X

Busca no EURAXESS Jobs, 9/08/2018, « mathematics », 378 ofertas, entre elas:

- Several post-doc positions in machine learning and artificial intelligence
- PhD in program verification
- PhD position on multi-system learning control for interconnected mechatronic systems
- Study assistant 10 h/week
- University Assistant Postdoc Career Position (Institute of Mathematics)
- PhD positions in the international PhD program “Molecular Medicine”
- PhD candidate (f/m) in optoacoustic sensor development
- Scientist - Model Uncertainty
- Professor and Head of Mathematics
- Dynamical systems in algebraic and topological structures, their entropies and other invariants
- Post Doctoral Researcher in Statistics – Specific Purpose Contract

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 BOSNIA AND HERZEGOVINA	 FYROMACEDONIA	 LUXEMBOURG	 SLOVAKIA
 BULGARIA	 GERMANY	 MALTA	 SLOVENIA
 CROATIA	 GREECE	 MOLDOVA	 SPAIN
 CYPRUS	 HUNGARY	 MONTENEGRO	 SWEDEN
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JOBS & FUNDING: ajuda você encontrar oportunidades de trabalho e financiamento



INFORMATION & ASSISTANCE: mais de 600 pessoas em 40 países para ajuda-lo e suas famílias



PARTNERING: encontre parceiros e instituições de acolhimento (*host*)



WORLDWIDE: conecta pesquisadores de todas as nacionalidades no mundo

EURAXESS Brazil – Como trabalhamos?

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Flashnotes regulares
& Publicações



Apresentações e
Eventos

2. Apoio aos pesquisadores individuais e instituições

EURAXESS Science Slam

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Desafio: apresentar sua pesquisa de forma **CRIATIVA**, em 6 minutos para um público de leigos

- **Concurso** aberto a **todos os pesquisadores** ativos no Brasil (mestrando e acima); todas as áreas de pesquisa
- Inscrições de junho até 15 de setembro
- **PREMIO**: uma viagem à Europa, para visitar um instituto de pesquisa
- **Treinamento**: coaching individual, workshop de comunicação científica



scienceslambrasil.com



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It's quick, simple and free of charge. Register now and you will have your own EURAXESS user account in no time!

Manage your recruiting process

As a research institution, university or business, My EURAXESS area let's you manage your organisation profile, post job, funding and hosting offers, search for the best candidates and many more!

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Charlotte Grawitz, Representante no Brasil



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for Research and Innovation initiative

