

UNIVERSIDADE DA CORUÑA

# Ciencia Excelente en H2020

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A Coruña, 13 maio 2019



OTRI

Oficina de Transferencia de Resultados de Investigación



# H2020 (2014-2020)



Excellent science

Industrial leadership

Societal challenges

## Priority 1 – Excellent science

- European Research Council (ERC)
- Future and Emerging Technologies (FET)
- Marie Skłodowska-Curie Actions
- Research Infrastructures

## Priority 2 – Industrial leadership

- Leadership in enabling and industrial technologies (LEIT)
  - Information and Communication Technologies (ICT)
  - Nanotechnologies
  - Biotechnology
  - Advanced manufacturing and Processing
  - Space
- Access to risk finance
- Innovation in SMEs

## Priority 3 – Societal Challenges

- SC1 - Health, demographic change and well-being
- SC2 - Food security, sustainable agriculture and forestry, Marine, Maritime and Inland water research, and Bioeconomy
- SC3 - Secure, clean and efficient energy
- SC4 - Smart, green and integrated transport
- SC5 - Climate action, Environment, Resource efficiency and Raw materials
- SC6 - Europe in a changing world – Inclusive, Innovative and Reflective societies
- SC7 - Secure societies – Protecting freedom and Security of Europe and its citizens



# Horizonte Europa (2021-2027)



Open Science

Global challenges

Open Innovation



Pillar 1

## OPEN SCIENCE:

reinforcing and extending the excellence of  
the Union's science base

### European Research Council

- Frontier research by the best researchers and their teams

€ 16.6 billion

### Marie Skłodowska-Curie Actions

- Equipping researchers with new knowledge and skills through mobility and training

€ 6.8 billion

### Research Infrastructures

- Integrated and inter-connected world-class research infrastructures

€ 2.4 billion



Axudas ERC

# ERC Misión

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*The ERC's mission is to encourage the highest quality research in Europe through competitive funding and to support investigator-driven frontier research across all fields, on the basis of scientific excellence.*

Esperase que a investigación punteira financiada polo ERC:

- teña un **impacto directo** considerable,
- permita avanzar cara á fronteira do coñecemento
- abrir o camiño a resultados científicos e tecnolóxicos novos e **novas áreas de investigación**

Todo isto para xerar ideas radicalmente novas que impulsen a innovación e afronten os retos sociais.

# ERC Modalidades

**STG**  
Starting Grants  
(2-7 years after PhD)

up to €1.5 Million  
for 5 years  
+ €500,000

**COG**  
Consolidator Grants  
(7-12 years after PhD)

up to €2 Million  
for 5 years  
+ €750,000

**ADG**  
Advanced Grants  
10 years' track-record

up to €2.5 Million  
for 5 years  
+ €1 Million

**Proof-of-Concept -PoC**  
bridging gap between research –  
earliest stage of marketable innovation  
up to €150,000 for ERC grantees

**Synergy Grant - SYG**  
2-4 Principal Investigators  
up to €10 Million for 6 years  
+ €4 Million

# Excelencia

**Excelencia** como el único criterio de evaluación:

- Excelencia IP
- Excelencia Proyecto científico

## Investigador Principal

- Capacidad intelectual y creativa
- Compromiso; dedicación al proyecto

## Proyecto

- Naturaleza “rompedora” y Potencial de impacto
- Metodología

# 25 Panéis

## Physical Sciences & Engineering

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

## Social Sciences and Humanities

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

## 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 Neurosciences 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

# Marco temporal

## StG-2020 (estimación)

- ⇒ Peche convocatoria: 17/10/2019
- ⇒ Comunicación resultados 1ª fase: maio 2020
- ⇒ Comunicación resultados 2ª fase: agosto 2020
- ⇒ Sinatura GA: xaneiro 2021

## GoG-2020 (estimación)

- ⇒ Peche convocatoria: 07/02/2020
- ⇒ Comunicación resultados 1ª fase: xullo 2020
- ⇒ Comunciación resultados 2ª fase: dec. 2020
- ⇒ Sinatura GA: abril 2021

## AdG-2019

- ⇒ Peche convocatoria: 29/08/2019
- ⇒ Result. 1ª fase: xaneiro 2020
- ⇒ Result. 2ª fase: abril 2020
- ⇒ Sinatura GA: agosto 2020

# Web ERC

- 
- Leer o programa de traballo e os documentos de apoio para preparar a proposta.
  - Consultar os proxectos financiados no mesmo panel en convocatorias anteriores
  - Consultar os membros dos paneis de avaliadores de convocatorias anteriores
  - Comparar o CV co dos beneficiarios de convocatorias anteriores
  - Pedirlle a colegas que lean a proposta

# Documentación

Programa de traballo, guías do solicitante,..

(European Commission C(2018) 5200 of 6 September 2018)

## ERC Work Programme 2019



**European Research Council**  
Established by the European Commission

Notice: Please note that until the UK leaves the EU, EU law continues to apply to and within the UK, when it comes to rights and obligations, this includes the eligibility of UK legal entities to fully participate and receive funding in Horizon 2020 actions such as those called for in this work programme. Please be aware however that the eligibility criteria must be complied with for the entire duration of the grant. If the UK withdraws from the EU during the grant period without concluding an agreement with the EU ensuring in particular that British applicants continue to be eligible, they will no longer be eligible to receive EU funding and their participation may be terminated on the basis of Article 50 of the grant agreement.

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Information for Applicants to the Starting and Consolidator Grant 2019 Calls



**European Research Council**  
Executive Agency  
Established by the European Commission



**European Research Council (ERC)  
Frontier Research Grants**

Version 2.0  
24 October 2018

This document is published by the ERC Scientific Council on the [ERC website](#). It can also be downloaded from the [Funding and Tender Opportunities Portal \(F&T Portal\)](#). This document is updated with links to the new F&T Portal that replaces the previous Participant Portal.



**European Research Council**  
Executive Agency  
Established by the European Commission



**European Research Council (ERC)  
Frontier Research Grants**

Guide for Peer Reviewers

Applicable to the ERC Starting, Consolidator & Advanced Grants (ERC Work Programme 2019)

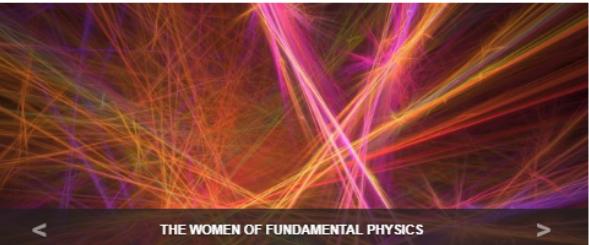
Version 1.0  
12 November 2018



# Web ERC

 European Research Council  
Supporting top researchers from anywhere in the world

FUNDING ► | PROJECTS & FIGURES ► | NEWS & EVENTS ► | MANAGING YOUR PROJECT ► | ABOUT ERC ►



THE WOMEN OF FUNDAMENTAL PHYSICS

**OPEN CALLS**

**Proof of Concept** | [ERC-2019-PoC](#)  
[Information for applicants](#)  
[Instruction guide for using html5](#)  
Deadline: 25 Apr 2019, 19 Sep 2019

The official deadlines are only those indicated on the [Funding and Tenders Portal](#)

Get support from your [National Contact Point](#)

**NEWS**

01-04-2019  
Media Advisory: Press conference on first results from the Event Horizon Telescope

28-03-2019  
222 scientists win the European Research Council's Advanced Grants

> MORE NEWS

**ALL ABOUT ERC FUNDING**

<b>ERC STARTING GRANTS</b> Grants up to 1.5€ million for 5 years For promising early-career researchers with 2 to 7 years experience after PhD	<b>ERC CONSOLIDATOR GRANTS</b> Grants up to 2€ million for 5 years For excellent researchers with 7 to 12 years experience after PhD
<b>ERC ADVANCED GRANTS</b> Grants up to 2.5€ million for 5 years For established research leaders with a recognised track record of research achievements	<b>ERC PROOF OF CONCEPT</b> Lump Sum Grant of 150.000€ For existing ERC grant holders to bring their research ideas closer to market

**Magazine**  
MARCH 2019  
This month we follow scientists roaming the seven seas, understand why a USA researcher would choose to work in the EU, see what the European Parliament is doing for science communication, and check out how Czech Charles University attracts ERC grants.

**EVENTS**

07-04-2019 to 12-04-2019  
[EGU2019](#)

<https://erc.europa.eu/>



# MARIE SKŁODOWSKA-CURIE ACTIONS

## Research Fellowship Programme

# Axudas individuais MSCA

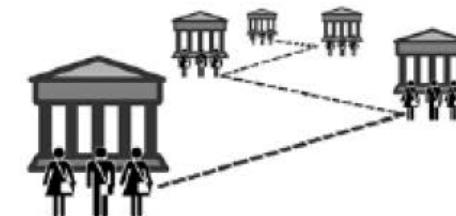
# MSCA Modalidades

## Post-doctoral Fellowships

**IF**

Individual Fellowships

## Staff Exchange

**RISE**Research and Innovation  
Staff Exchange

## Doctoral degrees

**ITN**

Innovative Training Networks

**COFUND**

Also for post-doctoral programmes

# Axudas individuais (IF)

## European Fellowship (EF)    Global Fellowship (GF)



For fellows coming to or  
moving within Europe  
(12-24 months)



For fellows from Europe going to  
Third countries (12-24 months)  
and returning (12 months)



# Criterios elixibilidade

- Doutores/as (ou + 4 anos investigador/a a tempo completo)
- Sen límite idade
- Calquera nacionalidade
- Regla de mobilidade

Peché: 11 Setembro 2019  
⇒ Requisitos na data peche convocatoria

## 8 Paneis científicos

CHE Chemistry	SOC Social Sciences and Humanities	ECO Economic Sciences	ENG Information Science and Engineering	ENV Environmental and Geosciences	LIF Life Sciences	MAT Mathematics	PHY Physics
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# European Fellowships (EF)

- Calqueira nacionalidade
  - Moverse desde calquera país a un EM/EA (HI)
  - 8 paneis científicos**
  - Regla de mobilidade estándar (máx. 12m, últimos 3 anos)
  - Duración proxecto: **12-24 meses**
    - Beneficiario (HI): EM/EA
    - Organización socia: EM/EA (*Secondments*)
- 
- ❖ O investigador fai a **solicitude** conxuntamente coa institución de acollida (HI) ubicada no EM/EA.
  - ❖ A HI contrata logo ao investigador e nomea un supervisor

# Global Fellowships (GF)

- 
- Nacionais EM/EA (ou residentes de longa duración)
  - Moverse desde calquera país a un Terceiro País.
  - 8 paneis científicos**
  - Regla mobilidade estándar (máx. 12m, últimos 3 anos) aplicada ao TP
  - Duración proxecto: 12-24 meses+ 1 ANO RETORNO OBRIGATORIO en Europa
- 
- Beneficiario (HI): EM/EA
  - Organización socia fase de saída (obrigatorio): TC
  - Organización socia *Secondments* (opcional): EM/EA

# Criterios elixibilidade

## *Regla de mobilidade standard*

O investigador/a solicitante NON pode ter residido ou traballado no país no que está ubicada a institución de acollida (HI) durante más de **12 meses nos 3 anos anteriores ao peche da convocatoria.**

**11/09/2016 - 11/09/2019**

\* No caso das GF a mobilidade é aplicable á fase de saída (Terceiro País)

## *Regla de mobilidade específica*

Non más de **36 meses nos 5 anos** anteriores ao peche

Career Restart (CAR), Reintegration (RI), Society & Enterprise (SE)

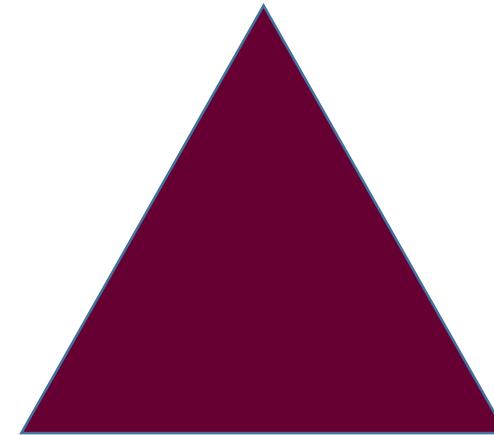


# Obxectivo

MSCA non é un proxecto de investigación convencional, é máis...

**INVESTIGADOR/A INDIVIDUAL**  
e a súa carreira

**PROXECTO**  
investigación, innovación e formación



**INSTITUCIÓN e  
SUPERVISOR**

# Financiamento

MSCA	Researcher Unit Cost (person/month)			Institutional Unit Cost (person/month)	
	Living Allowance *	Mobility Allowance	Family Allowance	Research, training and networking	Management and overheads
IF	4.880	600	500	800	650

- **Salario** = Living allowance+mobility allowance (+ Family allowance)
- **Importes brutos** (inclúen cuota patronal, custos SS, IRPF,...)

❖ Apícase un **coeficiente por país** aos *Living allowances* (95,4)

$$5.755,52\text{€/mes} \quad (4.880\text{€} \times 0,954 + 600 + 500)$$

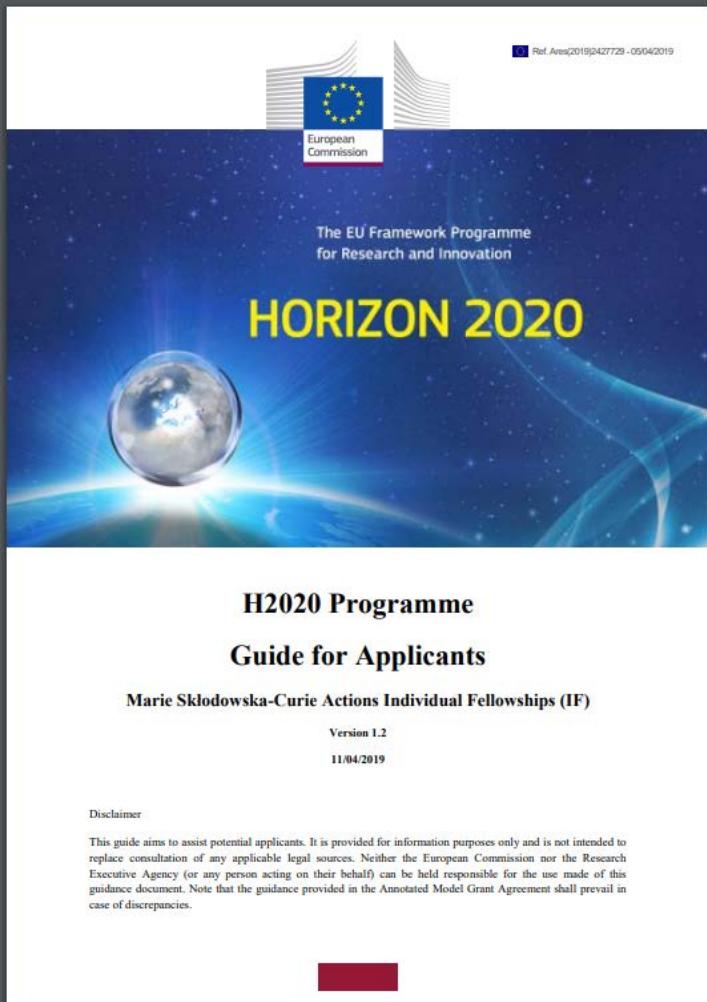
❖ A *Family allowance* determinase no momento da solicitude

# Marco temporal

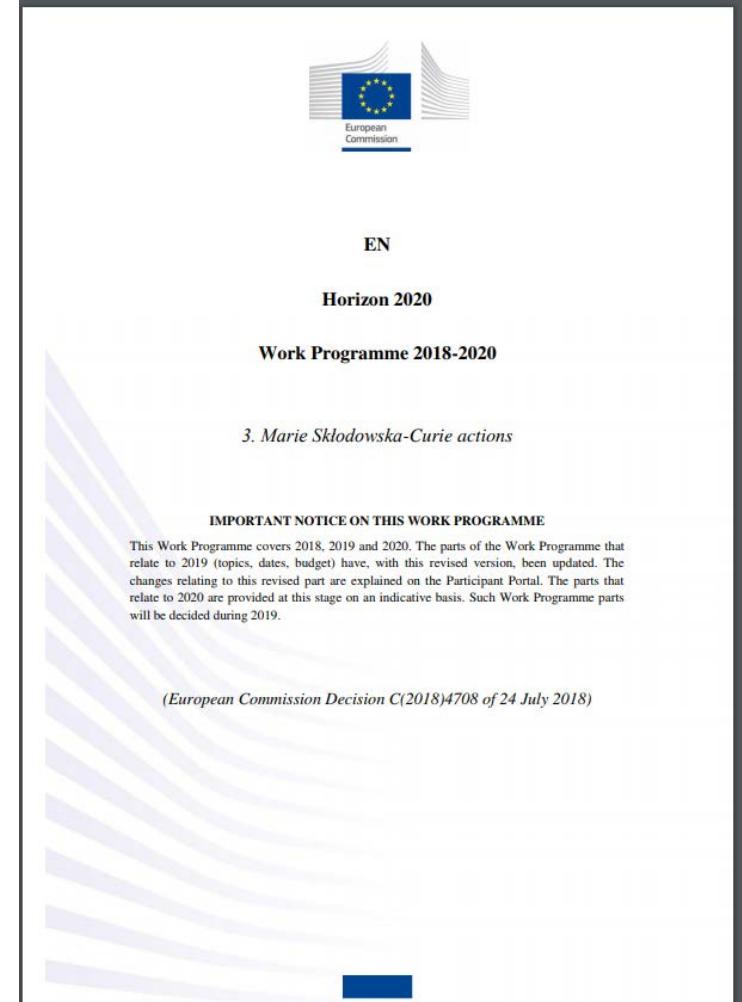
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- Peche convocatoria: **11/09/2019**
  - Avaliación: outubro-novembro 2019
  - Resultados: Febreiro 2020
  - Comezo da acción: Abril 2020- Setembro 2020

# Documentos



[http://ec.europa.eu/research/participants/data/ref/h2020/other/guides\\_for\\_applicants/h2020-guide-appl-msca-if-2018-20\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/other/guides_for_applicants/h2020-guide-appl-msca-if-2018-20_en.pdf)



[http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-msca\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-msca_en.pdf)

# Webs de interese

Marie Curie Sklodowska-Curie Actions:

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

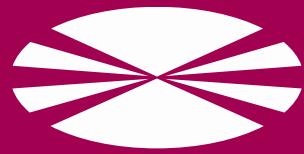
- Funding & tender opportunities:

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

- European Charter & Code: <https://euraxess.ec.europa.eu/jobs/charter>

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

- Oficina Europea : <http://eshorizonte2020.es>



UNIVERSIDADE DA CORUÑA

Moitas grazas

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