## Advanced Training in understanding the Safety of Nanomaterials



# **OPPORTUNITIES FOR ESRs & TALENT PROMOTION:**

How to find the Programs and grants to develop your career

Sonia Martel Martín & Iris García Iglesias International Research Center in CRMs for Advanced Industrial Technologies Universidad de Burgos, Burgos, Spain e-mail: <u>smartel@ubu.es</u>



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H2020 Priorities

- European Research Council
- Marie Slowdorska Curie Actions
- Future Emerging Technologies
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- The Application/submission process
- The Support





# Funding opprtunities



## **Searching Funding opportunities**



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## **Horizon 2020 Priorities**



#### **EXCELLENT SCIENCE**

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

#### **INDUSTRIAL LEADERSHIP**

- Leadership in enabling and industrial technologies (LEIT): ICT, NMBP, Space
- Access to risk finance
- Innovation in SMEs

#### **SOCIETAL CHALLENGES**

- Health, Demographic Change and Wellbeing
- Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy
- Secure, Clean and Efficient Energy
- Smart, Green and Integrated Transport
- Climate Action, Environment, Resource Efficiency and Raw Materials
- Europe in a changing world Inclusive, innovative and reflective societies
- Secure societies Protecting freedom and security of Europe and its citizens

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and Technology (EIT)

Spreading Excellence and

Science with and for Society

**Cross cutting activities (focus** 

Fast track to Innovation Pilot

**European institute of Innovation** 

Widening Participation

areas)

Euratom



## EXCELLENT SCIENCE: ERC FUNDING erc



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#### **GENERAL PROVISIONS:**

- ✓ Exploratory research funding on ANY field of research and technology
   ✓ Individual Grants :
  - Research topic chosen by the ERC holder researcher
  - Research team chosen by the ERC holder researcher
- ✓ Botton-up approach with only one criterium: EXCELLENCE
   ✓ 5 years of financial independence
   ✓ Mobility all around Europe



https://erc.europa.eu/

https://vimeo.com/94179654



## EXCELLENT SCIENCE: ERC FUNDING





#### 

ERC STARTING GRANTS For promising early-career researchers with 2 to 7 years experience after PhD

> Grants up to 1,5 € million for 5 years Budget: 485 € million (335 grants) ERC Starting Grant 2017, closing 17 October 2017

Talented early-career scientist ready to work independently as research leader

- Any nationality
- Any field of research
- Scientific track record showing great promise and an excellent research proposal
- Research must be conducted in a public or private research organisation located in one of the EU Member States or Associated Countries
- Application submitted by a single Principal Investigator

#### https://erc.europa.eu/

#### **ERC CONSOLIDATOR GRANTS**

For excellent researchers with 7 to 12 years experience after PhD

#### Grants up to 2 € million for 5 years Budget: € 575 million (300 grants)

Deadlines around february

#### To consolidate your independence by establishing a research team

- Any nationality
- Any field of research
- Scientific track record showing great promise and an excellent research proposal.
- Research must be conducted in a public or private research organisation located in one of the EU Member States or Associated Countries
- Application submitted by a single Principal Investigator

#### https://vimeo.com/94179654

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## EXCELLENT SCIENCE: ERC FUNDING erc



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#### ERC ADVANCED GRANTS

For established research leaders who have a track-record of significant research achievements in the last 10 years

#### Grants up to 2,5 millions € for 5 years

Budget 540 € million (235 grants) Deadline for submission of applications around August

Established, leading principal investigator who wants long-term funding to pursue a ground-breaking, high-risk project

- Principal Investigators should be exceptional leaders in terms of originality and significance of their research contributions
- Any field of research
- Scientific track record showing great promise and an excellent research proposal
- Research must be conducted in a public or private research organisation located in one of the EU Member States or Associated Countries
- Application submitted by a single Principal Investigator

#### **ERC PROOF of CONCEPT**

Grants up to 150.000€ for 18 months For existing ERC grant holders to bring their research ideas closer to market

ERC grant and now want to explore the commercial or societal potential

- PI must be able to demonstrate the relation between the idea to be taken to proof of concept and the ERC frontier research project
- activities at the very early stage of turning research outputs into a commercial or socially valuable proposition,
- Project conducted in a public or private research organisation located in one of the EU Member States or Associated Countries

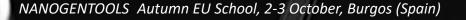
#### **OTHER ERC OPPORTUNITIES**

Public funding linked to ERC projects, even if you do not receive an ERC Grant.

#### **ERC SYNERGY GRANTs**

This grant should be relaunched in the ERC Work Programme 2018







## **EXCELLENT SCIENCE: MSCA FUNDING**

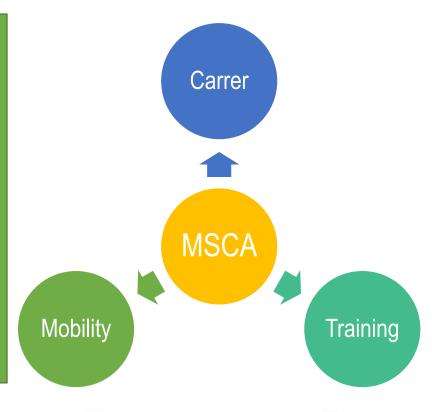




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### OBJECTIVES OF MSCA PROGRAM

- Ensure the optimum <u>development and dynamic use of Europe's intellectual capital</u> in order to generate new skills, knowledge and innovation
- <u>Attract and retain research talent</u>: Support researchers at all stages of their careers, irrespective of nationality.
- Open to all <u>domains of research and innovation</u> from basic research up to market take-up and innovation services (bottom-up): Researchers working across all disciplines, from life-saving healthcare to 'blue-sky' science, are eligible for funding.
- Develop state-of-the-art, innovative training schemes, consistent with the highly competitive and increasingly inter-disciplinary requirements of research and innovation
- Mobility as the key requirement funding on condition participants move from one country to another







## **EXCELLENT SCIENCE: MSCA FUNDING**





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### OBJECTIVES OF MSCA PROGRAM

- The MSCA also support industrial doctorates, combining academic research study with work in companies, and other innovative training that enhances employability and career development. Participation of non-academic sector strongly encouraged.
- > Promote sustainable career development in research and innovation: attractive working and employment conditions
- Contribute to a strong partnership with MS via the co-funding mechanism
- > Particular attention to gender balance
- Public engagement of supported researchers
- Budget 2014-2020: 6 162 million € (current prices)
- <u>http://ec.europa.eu/mariecurieactions</u>



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## **EXCELLENT SCIENCE: MSCA FUNDING**





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#### 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 nonacademic sectors

#### Who is funded?

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

#### Call details: Opened: 2 September 2014

Closes: 13 January 2015 Budget: 15 Sept. 2016 10 January 2017



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

Call details: Opens: 12 March 2015 Closes: 10 September 2015 Budget: 11 April 2017

14 Sept. 2017



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

#### Call details:

all career levels

Opens: 6 January 2015 Closes: 28 April 2015

Budget 01 Dec. 2016 05 April. 2017



#### COFUND Co-Funding of Regional, National and International Programmes

What does it offer? Regional, national or international programmes to foster excellence in research-

ers' training, mobility and career development

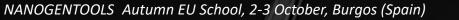
#### Who applies? Organisations funding or managing doctoral programmes or fellowship programmes

Who is funded? Researchers at doctoral and postdoctoral level

> Call details: Opens: 14 April 2015 Closes: 1 October 2015

Budget: 05 April 2017 28 Sept. 2017













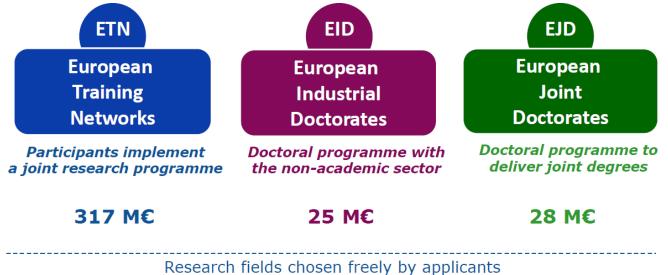
#### Which MSCA better suits your profile? WHO APPLIES?? HOST INSTITUTION APPLIES **FUNDER APPLIES** Early Stage Researcher - Innovative Training Networks (ITN) Co-funding of regional, national and international programmes (COFUND) - Research and Innovation Staff Exchange (RISE) **HOST INSTITUTION APPLIES FUNDER APPLIES INDIVIDUALS + ORGANIZATION Post-Doctoral Researcher** - Research and Innovation Staff Co-funding of regional, national and - Individual Fellowship Exchange (RISE) international programmes (COFUND) HOST INSTITUTION APPLIES **Managerial Staff** - Research and Innovation Staff Exchange (RISE) NANOGENTOOLS Autumn EU School, 2-3 October, Burgos (Spain) Nanogentools confidential





### (ITN) INNOVATIVE TRAINING NETWORKS

**CORE** ACTIVITY: Training through individual research projects **MANDATORY** : trans-national mobility at the time of recruitment. SUPPORT FOR EARLY-STAGE/DOCTORAL RESEARCH TRAINING THROUGH:



(CHE, ECO, ENG, ENV, LIF, MAT, PHY, SOC)



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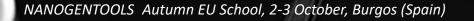


(RISE) Research and Innovation Staff Exchange

**CORE ACTIVITY:** International and inter-sector collaboration through research and innovation staff exchanges

- ✓ Sharing of knowledge and ideas for the advancement of science and the development of innovation.
- ✓ Support is provided for the development of partnerships (e.g. joint research and innovation activities)
- $\checkmark$  <u>Bottom-up approach</u>: set of clear research and innovation objectives and deliverables.
- ✓ All nationalities can participate in RISE
- ✓ All institutions fulfilling the requirements of the Horizon 2020 Rules for Participation can participate in RISE
- ✓ Mobility rules at implementation stage:
  - ✓ Secondments between companies and R&D Centers
  - ✓ Secondments between different countries







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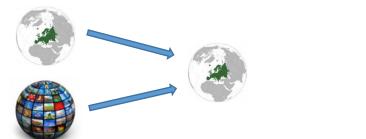
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### (IF) INDIVIDUAL FELLOWSHIPS

**CORE ACTIVITY:** to enhance the creative and innovative potential of experienced researchers **MANDATORY:** Only experienced researchers can apply

- To provide opportunities to acquire new knowledge, resume a career or return to Europe
- Trans-national fellowships awarded to the best or most promising researchers

EUROPEAN FELLOWSHIPS For Fellows coming to or moving within Europe (12-24 months) GLOBAL FELLOWSHIPS For Fellows from Europe going to third countries and returning Mandatory one-year return period





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### \_\_\_\_\_\_

### COFUND

**CORE ACTIVITY:** to stimulate regional, national or international programmes to foster excellence in researchers' training, mobility and career development

- Co-funding new or existing regional, national, and international programmes to open up to, and provide for, international, intersectoral and interdicisplinary research training, as well as transnational and cross-sector mobility of researchers at all stages of their career
- Possibilities of synergies with structural funds
- Doctoral Programmes (for ESR) and Fellowship Programmes (for ER)
- Researchers to comply with the mobility rules of the MSCA
- Minimum support for researchers: 3 months
- Implemented by a sole beneficiary

### **DOCTORAL Programmes**

# Fellowships Programmes for experienced researchers



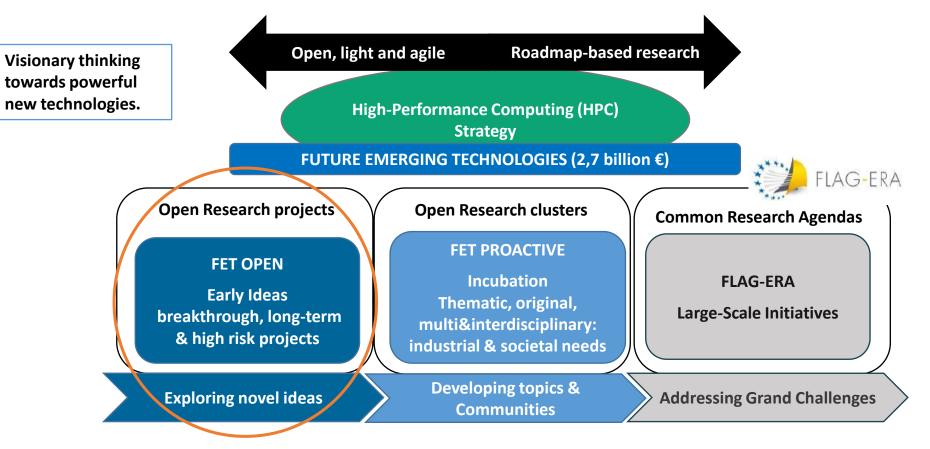
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## FUTURE EMERGING TECHNOLOGIES







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## FUTURE EMERGING TECHNOLOGIES





### 

- FET activities aim to create in Europe a fertile ground for responsible and dynamic multidisciplinary collaborations on future technologies
- Aiming to transform European scientific excellence in competitive advantage
- FET OPEN :
  - ✓ Long-term vision
  - ✓ Breakthrough scientific and technological target
  - ✓ Novelty
  - ✓ Foundational
  - ✓ High-risk
  - ✓ Interdisciplinary



#### http://ec.europa.eu/programmes/horizon2020/en/h2020-section/future-and-emerging-technologies



## **EUROPEAN INSTITUTE OF INNOVATION & TECHNOLOGY**



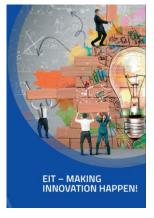
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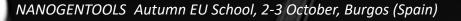
- EIT is an independent EU body
- Aims to enhance Europe's ability to innovate: entrepreneurial talent and supporting new ideas.
- The EIT brings together the 'knowledge triangle' of **business**, education and research to form dynamic cross-border partnerships; Knowledge and Innovation Communities (KICs) to:
  - ✓ Develop innovative products and services;
  - ✓ Start new companies; and
  - $\checkmark$  Train a new generation of entrepreneurs.
- EITs activities:
  - ✓ Activities Innovation Communities
  - ✓ Education
  - ✓ Entrepreneurship
  - ✓ Outreach
  - ✓ EIT Awards



European Institute of Innovation & Technology









## **EUROPEAN INSTITUTE OF INNOVATION & TECHNOLOGY**



EIT Climate - KIC EIT Health EIT Raw Materials EIT Food EIT InnoEnergy

### EDUCATION AND TRAINING FOR:

- Students
- Entrepreneurs
- Businesses
- Public Bodies

### **ACTIVITIES:**

EIT-Alumni

- Educational programmes
- added value to Master's and Ph.D. degree programme
- Pre-incubation programmes to explore your business ideas

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European Institute of Innovation & Technology https://eit.europa.eu/eit-community https://eit.europa.eu/eit-community/eit-alumni

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## **EUROPEAN YOUTH FOUNDATION**



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- European Youth Foundation (EYF) is created by the Council of Europe to provide <u>financial and</u> <u>educational support for European youth activities</u>.
- It provides funding and educational support for international youth activities aiming to promote youth <u>citizenship</u>, youth <u>mobility</u> and the values of <u>human rights</u>, <u>democracy and cultural pluralism</u>.
- It seeks to bring together and disseminate expertise and knowledge about the life situations, aspirations and ways of expression of young Europeans.



http://www.coe.int/en/web/youth/about-us http://www.coe.int/web/european-youth-foundation



## **EUROPEAN YOUTH FOUNDATION**



### 

**Financial support to the** following types of activities undertaken by youth NGOs or networks:

- ✓ educational, social, cultural and humanitarian activities of a European character
- ✓ strengthening peace and co-operation in Europe
- ✓ promotion closer co-operation and better understanding among young people in Europe, particularly by developing the exchange of information
- ✓ activities intended to stimulate mutual aid in Europe and in the developing countries for cultural, educational and social purposes
- ✓ studies, research and documentation on youth matters





## **OTHER INICIATIVES**

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

EURAXESS



#### 

- **Researchers in Motion** is a unique pan-European initiative delivering information and support services to professional researchers.
- Backed by the European Union and its Member States, it supports researcher mobility and career development, while enhancing scientific collaboration between Europe and the world.



Virtual job market with job and funding opportunities, grants, CVs, etc. (IU commitments # 4 & # 30)



Relocation assistance for researchers and their family (IU commitments #4&#30)



research profession) & its implementation mechanism, the "Human Resources Strategy for Researchers" (HRS4R), & info on social security and scientific visa (IU commitments # 1 and # 30)

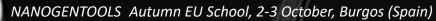
Information on the Charter and Code (i.e. rights and obligations in the



A networking tool for European researchers abroad (IU commitments #30 and # 4)



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# The Application



## WHERE TO FIND INFORMATION?



#### 

### PARTICIPANT PORTAL

- > CALL PAGES:
  - Guide for Applicants
  - Work Programmes
  - > Descriptors
  - > Other support information
- Your Host Institution: Europe grant office (check if your institution is already registered)
- National Contact Points

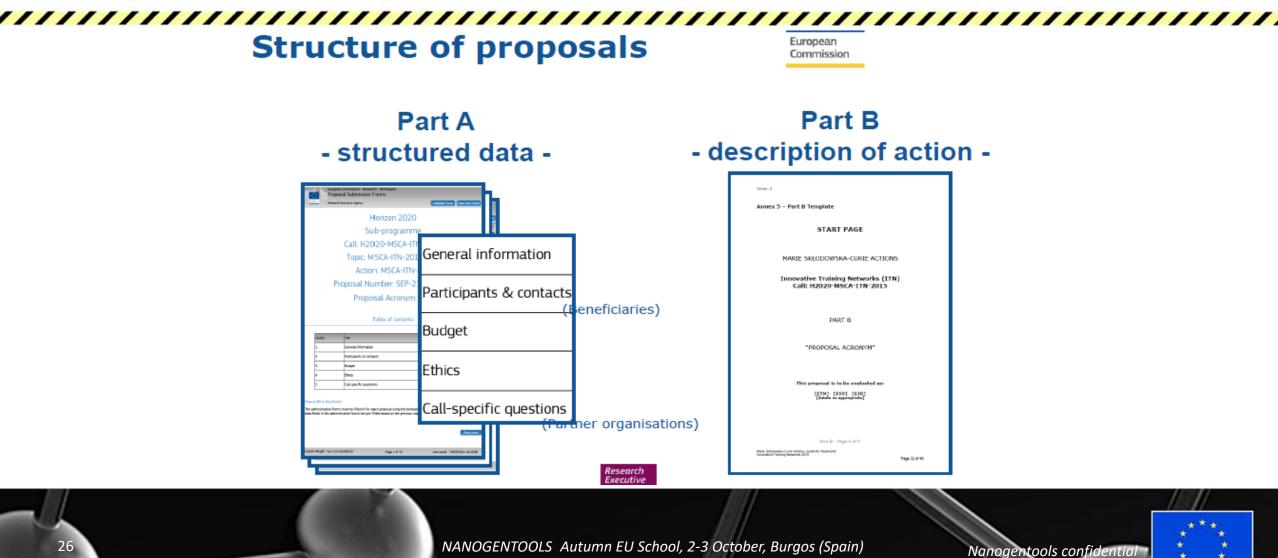


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### **PROPOSAL TEMPLATES**





### **PROPOSAL TEMPLATES**



#### 

- Part A: General information, Principal Investigator, Administrative data of participant organisations, Budget, Ethics...
- **Part B:** CV, track records, Technical proposal: state of the Art; objectives, methodology.....

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European Commission - Research - Participants Proposal Submission Forms	Applicant's last name	Part B2	ACRONYM
European Research Council Executive Agency			
Proposal ID Acronym Go to		ERC Starting Grant 2017	
1 - General information	R	esearch proposal [Part B2)] <sup>1</sup>	
Торіс		( <u>not</u> evaluated in Step 1)	
Call Identifier	Part B2: <u>The scientific proposal</u> (m	uax. 15 pages)	
Type of Action		Text highlighted in grey should be deleted.	
Deadline Id		tting constraints: Times New Roman, Aria top and bottom), single line spacing.	al or similar, at least font size
Acronym			
Proposal title* The title should be no longer than 200 characters (with spaces) and should be un to the non-specialist in your field.	Gerstandable Section a. State-of-the-art and obj	ectives	
Note that for technical reasons, the following characters are not accepted in the Proposal Title and will Duration in months* Duration must be between 1 - 60 months	be removed: < > * &		
Primary ERC Review Panel*			
Secondary ERC Review Panel (	f applicable) Section b. Methodology	00	
ERC Keyword 1* As first keyword please choose one which is linked to the Primary Review Panel.			
Please Vect, if applicable, the ERC keyword(s) that best characterise the subject of your pro	posal in order	×O	
ERC Keyword 2 / ble			
ERC Keyword 3			
FINE FULFILL ONLINE of choice of keywords that you consider best characterise the into account any multi-discip	duration of the project. To facilitat	oject costs) mount of funding considered neces, te the assessment of resources by the po All eligible costs requested, should be in	FULFILL OFFLINE dowing se use

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# The Support



### NATIONAL CONTACT POINTS

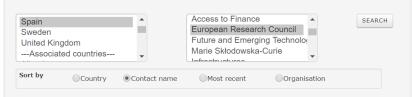


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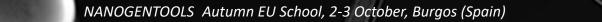
### Google! H2020 Participant Portal

- Information meetings
- Information about Work Programmes, Templates, budget, calendar …
- Helpdesk
- Presentations
- Workshop organisation to provide guidelines and best practices

#### **SEARCH & INNOVATION** cipant Portal Participant Portal > Home 🔒 LOGIN 🔒 REGISTI Q IES HOW TO PARTICIPATE EXPERTS SUPPORT - Search H2020 Online Manual on 2020 Funding Research Enquiry Service Enterprise Europe Network Starting from 1/1/2014 National Contact Points Glossary On this site you can find and secure funding Q E LOGIN RTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT Search FAQ • 2014-2020 Horizon 2020 - research an · 2007-2013 7th research framework pro IT Helpdesk · 3rd Health Programme, Asylum, Migratio Other Help Services National Contact Points Borders, Internal Security Fund Police, Terms and Conditions Equality and Citizenship Programme and The network of National Contact Points (NCPs) is the main structure to provide guidance, practical information and What's New assistance on all aspects of participation in Horizon 2020. NCPs are also established in many non-EU and nonassociated countries ("third countries") Non-registered users APIs Search for



#### Ms Lucia del Río - Spain European Research Council Organisation name: Instituto de Salud Carlos III





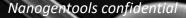




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- There are many available funding schemes for youth targeting different researchers typologies, field of research and technology, covering not only research and training, but also entrepreneurial and networking activities.
- The application process to submit the proposals could be very tedious, difficult and the selection of funded proposals very strict demotivating the young researchers... <u>but don't hesitate to use the support</u> <u>and to beneficiate of European funding to proceed your career</u>.









- Different structures exist to in the facilitate the identification of the calls best adapted for each situation
- And to help in the preparation of the different proposals ...please count on them and do not hesitate to beneficiate of European funding to proceed your career

### **EUROPEAN RESEARCH NEEDS YOU !!**





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# **THANK YOU!**

Sonia Martel Martín ICCRAM - UBU smartel@ubu.es



# Thank you!



#### 

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