

*Servizos de apoio e oportunidades de participación para investigadores da UDC nas convocatorias 2017 do programa H2020*

# Oportunidades nas convocatorias 2017 do H2020

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17 de novembro 2016



UNIVERSIDADE DA CORUÑA



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# PILLAR II: INDUSTRIAL LEADERSHIP



## Excellent Science

European Research Council (ERC)

Future & Emerging Technologies (FET)

Marie Skłodowska-Curie Actions (MSCA)

Research Infrastructures

## Industrial Leadership

Leadership in Enabling and Industrial Technologies

Access to Risk Finance

Innovation in SMEs

## Societal challenges

Health, demographic change and wellbeing

Food security, sustainable agriculture, forestry, marine, maritime, inland water and bio-economy

Secure, clean and efficient energy

Smart, green and integrated transport

Climate action, environment, resource efficiency and raw materials

Inclusive, innovative and reflective societies

Secure societies – protecting freedom and security of Europe and its citizens

Spreading Excellence and Widening Participation

Science with and for Society

EIT

JRC

## Excellent Science

European Research Council (ERC)

Future & Emerging Technologies (FET)

Marie Skłodowska-Curie Actions (MSCA)

Research Infrastructures

## Industrial Leadership

ICT  
Nanotechnologies  
Advanced materials  
Biotechnology  
Advanced manufacturing and processing

Access to Risk Finance

Innovation in SMEs

## Societal challenges

Health, demographic change and wellbeing

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# Pillar II, LEIT: Nanotechnologies, Advanced Materials, Biotechnology and Advanced Manufacturing and Processing (NMBP)

The screenshot shows the 'Calls for Proposals' section of the European Commission Participant Portal. The main heading is 'Calls for Proposals' under 'Horizon 2020'. A sub-section titled 'Industrial Leadership' lists several topics, including 'Nanotechnologies', 'Advanced materials', and 'Biotechnology'. A red arrow points from the 'Nanotechnologies' link to the right side of the slide.



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Horizon 2020

Work Programme 2016 - 2017

5.ii. Nanotechnologies, Advanced Materials, Biotechnology and Advanced Manufacturing and Processing

Important notice on the second Horizon 2020 Work Programme

This Work Programme covers 2016 and 2017. The parts of the Work Programme that relate to 2017 (topics, dates, budget) have, with this revised version, been updated. The changes relating to this revised part are explained on the Participant Portal.

(European Commission Decision C(2016)4614 of 25 July 2016)

- CALL FOR ENERGY-EFFICIENT BUILDINGS (H2020-EEB-2016-2017). List of topics [HERE](#)
- CALL FOR NANOTECHNOLOGIES, ADVANCED MATERIALS, BIOTECHNOLOGY AND PRODUCTION (H2020-NMBP-2016-2017). List of topics [HERE](#)



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## **Pillar II, LEIT: Nanotechnologies, Advanced Materials, Biotechnology and Advanced Manufacturing and Processing (NMBP)**

### **CALL FOR ENERGY-EFFICIENT BUILDINGS (H2020-EEB-2016-2017)**

4 Open Topics

### **CALL FOR NANOTECHNOLOGIES, ADVANCED MATERIALS, BIOTECHNOLOGY AND PRODUCTION (H2020-NMBP-2016-2017)**

7 Open Topics

\* **ADVANCED MATERIALS AND NANOTECHNOLOGIES FOR HIGH ADDED VALUE PRODUCTS AND PROCESS INDUSTRIES** – no open topics

\* **GREEN VEHICLES** – no open topics

\* **ADVANCED MATERIALS AND NANOTECHNOLOGIES FOR HEALTHCARE** – 2 open topics

\* **ADVANCED MATERIALS AND NANOTECHNOLOGIES FOR ENERGY APPLICATIONS** – no open topics

\* **ECO-DESIGN AND NEW SUSTAINABLE BUSINESS MODELS** – no open topics

\* **BIOTECHNOLOGY** – 1 open topic

\* **COMPUTATIONAL MATERIALS MODELLING FOR THE DEVELOPMENT OF NANOTECHNOLOGIES AND ADVANCED MATERIALS** – no open topics

\* **SCIENCE-BASED RISK ASSESSMENT AND MANAGEMENT OF NANOTECHNOLOGIES, ADVANCED MATERIALS AND BIOTECHNOLOGIES** – no open topics

\* **INNOVATIVE AND RESPONSIBLE GOVERNANCE OF NEW AND CONVERGING ENABLING TECHNOLOGIES** – 4 open topics



## H2020-EEB-2016-2017 - 4 Open Topics - Overall budget (€ Mn) 54,88

Topic Title	Deadline	Project type
EEB-05-2017: Development of near zero energy building renovation	19/01/2017	IA, Projects 5-7 € Mn
EEB-06-2017: Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions	19/01/2017	RIA, Projects 4-6 € Mn
EEB-07-2017: Integration of energy harvesting at building and district level	19/01/2017	IA, Projects 4-6 € Mn
EEB-08-2017: New business models for energy-efficient buildings through adaptable refurbishment solutions	19/01/2017	CSA, Projects 0,5-1 € Mn





## H2020-NMBP-2016-2017 - 7 Open Topics - Overall budget (€ Mn) 23,40

Topic Title	Deadline	Project type
BIOTEC-08-2017: Support for enhancing and demonstrating the impact of KET Biotechnology projects	19/01/2017	CSA, Projects 0,7-1 € Mn
NMBP-13-2017: Cross-cutting KETs for diagnostics at the point-of-care	19/01/2017	RIA, Projects 3-5 € Mn
NMBP-16-2017: Mobilising the European nano-biomedical ecosystem	19/01/2017	CSA, Projects 1-2 € Mn
NMBP-31-2017: Presidency events	19/01/2017	CSA, Projects 0,3-0,6 € Mn
NMBP-34-2017: Governing innovation of nanotechnology through enhanced societal engagement	19/01/2017	CSA, Projects 1,5-2 € Mn
NMBP-37-2017: Mapping a path to future supply chains	19/01/2017	CSA, Projects 0,6-1,2 € Mn
NMBP-38-2017: Support for the enhancement of the impact of pilot projects	19/01/2017	CSA, Projects 0,5-1 € Mn

# PILLAR III: SOCIETAL CHALLENGES



## Excellent Science

European Research Council (ERC)

Future & Emerging Technologies (FET)

Marie Skłodowska-Curie Actions (MSCA)

Research Infrastructures

## Industrial Leadership

Leadership in Enabling and Industrial Technologies

Access to Risk Finance

Innovation in SMEs

## Societal challenges

Health, demographic change and wellbeing

Food security, sustainable agriculture, forestry, marine, maritime, inland water and bio-economy

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Spreading Excellence and Widening Participation

Science with and for Society

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# Pillar III, Challenge “Food security, sustainable agriculture, forestry, marine, maritime, inland water and bio-economy”

RESEARCH & INNOVATION  
Participant Portal

European Commission > Research & Innovation > Participant Portal > Calls

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT Search LOGIN REGISTER

EU Programmes 2014-2020

Search Topics

Updated

Calls

H2020

3rd Health Programme

Asylum, Migration and Integration Fund

Consumer Programme

COSME

Internal Security Fund - Borders

Internal Security Fund - Police

Justice Programme

Promotion of Agricultural Products

Research Fund for Coal & Steel

Rights, Equality and Citizenship Programme

## Calls for Proposals

Horizon 2020

Advanced search for topics  
Calls for leaders on TED

- Access to risk finance
- Innovation in SMEs
- Societal Challenges
  - Health, demographic change and wellbeing
  - Food security, sustainable agriculture and forestry, marine and 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

Status  Calls with forthcoming topics  Calls with open topics  Calls with only closed topics

Sort by  Call title  Call identifier  Publication date Filter a call FILTER

Societal Challenges  
**Rural Renaissance - Fostering innovation and business opportunities**  
H2020-RUR-2016-2017  
Publication date:14 October 2015

Societal Challenges  
**Sustainable Food Security – Resilient and resource-efficient value chains**  
H2020-SFS-2016-2017  
Publication date:14 October 2015

Societal Challenges  
**Blue Growth – Demonstrating an ocean of opportunities**  
H2020-BG-2016-2017  
Publication date:14 October 2015

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## Horizon 2020

### Work Programme 2016 - 2017

9. Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy

Important notice on the second Horizon 2020 Work Programme

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(European Commission Decision C(2016)4614 of 25 July 2016)

- CALL SUSTAINABLE FOOD SECURITY – RESILIENT AND RESOURCE-EFFICIENT VALUE CHAINS (H2020-SFS-2016-2017). List of topics [HERE](#)
- CALL BLUE GROWTH - DEMONSTRATING AN OCEAN OF OPPORTUNITIES (H2020-BG-2016-2017). List of topics [HERE](#)
- CALL RURAL RENAISSANCE - FOSTERING INNOVATION AND BUSINESS OPPORTUNITIES (H2020-RUR-2016-2017 ). List of topics [HERE](#)
- CALL BIO-BASED INNOVATION FOR SUSTAINABLE GOODS AND SERVICES - SUPPORTING THE DEVELOPMENT OF A EU BIOECONOMY (H2020-BB-2016-2017).List of topics [HERE](#)

**Pillar III, Challenge “Food security, sustainable agriculture, forestry, marine, maritime, inland water and bio-economy”**

**CALL SUSTAINABLE FOOD SECURITY – RESILIENT AND RESOURCE-EFFICIENT VALUE CHAINS (H2020-SFS-2016-2017)**

30 Open Topics

**CALL BLUE GROWTH - DEMONSTRATING AN OCEAN OF OPPORTUNITIES (H2020-BG-2016-2017)**

7 Open Topics

**CALL RURAL RENAISSANCE - FOSTERING INNOVATION AND BUSINESS OPPORTUNITIES (H2020-RUR-2016-2017)**

9 Open Topics

**CALL BIO-BASED INNOVATION FOR SUSTAINABLE GOODS AND SERVICES - SUPPORTING THE DEVELOPMENT OF A EUROPEAN BIOECONOMY (H2020-BB-2016-2017)**

5 Open Topics



## H2020-SFS-2016-2017 - 30 Open Topics - Overall budget (€ Mn) 280,57

Topic Title	Deadline	Project type
SFS-04-2017: New partnerships and tools to enhance European capacities for in-situ conservation	14/02/2017	CSA, Projects 2 € Mn
SFS-05-2017: Robotics Advances for Precision Farming	14/02/2017	RIA, Projects 2-4 € Mn
SFS-07-2016-2017: Organic breeding – Increasing the competitiveness of the organic breeding and farming sectors	Stg. 1: 14/02/2017 Stg 2: 13/09/2017	RIA, Projects 6 € Mn
SFS-08-2017: Organic inputs – contentious inputs in organic farming	Stg. 1: 14/02/2017 Stg 2: 13/09/2017	RIA, Projects 4 € Mn
SFS-10-2017: Research and approaches for emerging diseases and pests in plants and terrestrial livestock	Stg. 1: 14/02/2017 Stg 2: 13/09/2017	RIA, Projects 5 € Mn
SFS-13-2017: Validation of diagnostic tools for animal and plant health	14/02/2017	IA, Projects 3 € Mn
SFS-15-2016-2017: Breeding livestock for resilience and efficiency	Stg. 1: 14/02/2017 Stg 2: 13/09/2017	RIA, Projects 7 € Mn



## H2020-SFS-2016-2017 - 30 Open Topics - Overall budget (€ Mn) 280,57

Topic Title	Deadline	Project type
SFS-16-2017: Bee health and sustainable pollination	Stg. 1: 14/02/2017 Stg 2: 13/09/2017	RIA, Projects 9 € Mn
SFS-17-2017: Innovations in plant protection	Stg. 1: 14/02/2017 Stg 2: 13/09/2017	RIA, Projects 3 € Mn
SFS-18-2017: Support to the development and implementation of FOOD 2030 - a European research and innovation policy framework for food and nutrition security	14/02/2017	CSA, Projects 4 € Mn
SFS-19-2016-2017: ERA-NET Cofund: Public-Public Partnerships in the bioeconomy	14/02/2017	ERA-NET
SFS-20-2017: Towards a science-based regionalisation of the Common Fisheries Policy	Stg. 1: 14/02/2017 Stg 2: 13/09/2017	RIA, Projects 6 € Mn
SFS-21-2016-2017: Advancing basic biological knowledge and improving management tools for commercially important fish and other seafood species	Stg. 1: 14/02/2017 Stg 2: 13/09/2017	RIA, Projects 5 € Mn



## H2020-SFS-2016-2017 - 30 Open Topics - Overall budget (€ Mn) 280,57

Topic Title	Deadline	Project type
SFS-22-2017: Smart fisheries technologies for an efficient, compliant and environmentally friendly fishing sector	14/02/2017	IA, Projects 6 € Mn
SFS-27-2017: Permanent grassland – farming systems and policies	Stg. 1: 14/02/2017 Stg 2: 13/09/2017	RIA, Projects 10 € Mn
SFS-28-2017: Functional biodiversity – productivity gains through functional biodiversity: effective interplay of crop pollinators and pest predators	Stg. 1: 14/02/2017 Stg 2: 13/09/2017	RIA, Projects 10 € Mn
SFS-29-2017: Socio-eco-economics – socio-economics in ecological approaches	Stg. 1: 14/02/2017 Stg 2: 13/09/2017	RIA, Projects 5 € Mn
SFS-30-2017: Closing loops at farm and regional levels to mitigate GHG emissions and environmental contamination - focus on carbon, nitrogen and phosphorus cycling in agro-ecosystems	Stg. 1: 14/02/2017 Stg 2: 13/09/2017	RIA, Projects 7 € Mn
SFS-32-2017: Promoting and supporting the eco-intensification of aquaculture production systems: inland (including fresh water), coastal zone, and offshore	Stg. 1: 14/02/2017 Stg 2: 13/09/2017	RIA, Projects 6 € Mn



## H2020-SFS-2016-2017 - 30 Open Topics - Overall budget (€ Mn) 280,57

Topic Title	Deadline	Project type
SFS-34-2017: Innovative agri-food chains: unlocking the potential for competitiveness and sustainability	Stg. 1: 14/02/2017 Stg 2: 13/09/2017	RIA, Projects 6 € Mn
SFS-35-2017: Innovative solutions for sustainable food packaging	14/02/2017	IA, Projects 6 € Mn
SFS-36-2017: Co-fund on "One Health" (zoonoses – emerging threats)	14/02/2017	Cofund
SFS-39-2017: How to tackle the childhood obesity epidemic?	Stg. 1: 14/02/2017 Stg 2: 13/09/2017	RIA, Projects 10 € Mn
SFS-40-2017: Sweeteners and sweetness enhancers	Stg. 1: 14/02/2017 Stg 2: 13/09/2017	RIA, Projects 9 € Mn
SFS-43-2017: Earth observation services for the monitoring of agricultural production in Africa	14/02/2017	RIA, Projects 10 € Mn
SFS-46-2017: Alternative production system to address anti-microbial drug usage, animal welfare and the impact on health	Stg. 1: 14/02/2017 Stg 2: 13/09/2017	RIA, Projects 5 € Mn

## H2020-SFS-2016-2017 - 30 Open Topics - Overall budget (€ Mn) 280,57

Topic Title	Deadline	Project type
SFS-47-2017: Management of soil water resources in the EU and China and its impact on agro-ecosystem functions	Stg. 1: 14/02/2017 Stg 2: 13/09/2017	RIA, Projects 5 € Mn
SFS-48-2017: Resource-efficient urban agriculture for multiple benefits – contribution to the EU-China Urbanisation Partnership	14/02/2017	IA, Projects 7 € Mn
SFS-49-2017: Better understanding the challenges facing agriculture and the impacts of policies - A European platform to support modelling in agriculture	14/02/2017	CSA, Projects 1 € Mn
SFS-50-2017: Supporting international cooperation activities on agriculture soil contribution to climate change mitigation and adaptation	14/02/2017	CSA, Projects 2,5 € Mn



## H2020-BG-2016-2017 - 7 Open Topics - Overall budget (€ Mn) 48,40

Topic Title	Deadline	Project type
BG-02-2016-2017: High value-added specialised vessel concepts enabling more efficient servicing of emerging coastal and offshore activities	14/02/2017	IA, Projects 8 € Mn
BG-04-2017: Multi-use of the oceans marine space, offshore and near-shore: Enabling technologies	14/02/2017	IA, Projects 8 € Mn
BG-06-2017: Interaction between people, oceans and seas: a strategic approach towards healthcare and well-being	14/02/2017	CSA, Projects 2 € Mn
BG-07-2017: Blue green innovation for clean coasts and seas	14/02/2017	IA, Projects 6 € Mn
BG-08-2017: Innovative sustainable solutions for improving the safety and dietary properties of seafood	14/02/2017	IA, Projects 7 € Mn
BG-11-2017: The effect of climate change on Arctic permafrost and its socio-economic impact, with a focus on coastal areas	14/02/2017	RIA, Projects 10 € Mn
BG-14-2017: Monitoring and assessing fish stocks, other pelagic species and habitats with an automated, non-invasive, opto-acoustic system.	14/02/2017	IA, Projects 1,4 € Mn



## H2020-RUR-2016-2017 - 9 Open Topics - Overall budget (€ Mn) 61,00

Topic Title	Deadline	Project type
RUR-02-2017: Coastal-rural interactions: Enhancing synergies between land and sea-based activities	Stg. 1: 14/02/2017 Stg 2: 13/09/2017	RIA, Projects 5 € Mn
RUR-03-2017: Towards 2030 - policies and decision support tools for an integrated approach to the management of land as a resource	Stg. 1: 14/02/2017 Stg 2: 13/09/2017	RIA, Projects 7 € Mn
RUR-05-2017: Novel public policies, business models and mechanisms for the sustainable supply of and payment for forest ecosystem services	14/02/2017	IA, Projects 4 € Mn
RUR-09-2017: Business models for modern rural economies	Stg. 1: 14/02/2017 Stg 2: 13/09/2017	RIA, Projects 4,5 € Mn
RUR-10-2016-2017: Thematic Networks compiling knowledge ready for practice	14/02/2007	CSA, Projects 2 € Mn



## H2020-RUR-2016-2017 - 9 Open Topics - Overall budget (€ Mn) 61,00

Topic Title	Deadline	Project type
RUR-12-2017: Networking European farms to boost thematic knowledge exchanges and close the innovation gap	14/02/2017	CSA, Projects 7 € Mn
RUR-13-2017: Building a future science and education system fit to deliver to practice	Stg. 1: 14/02/2017 Stg 2: 13/09/2017	RIA, Projects 7 € Mn
RUR-15-2017: The benefits of working with others – fostering social capital in the farming sector	14/02/2017	CSA, Projects 3 € Mn
RUR-16-2017: Optimising interactive innovation project approaches and the delivery of EU policies to speed up innovation in rural areas	Stg. 1: 14/02/2017 Stg 2: 13/09/2017	RIA, Projects 5 € Mn



## H2020-BB-2016-2017 - 5 Open Topics - Overall budget (€ Mn) 26,47

Topic Title	Deadline	Project type
BB-02-2017: Towards a method for the collection of statistical data on bio-based industries and bio-based products	Stg. 1: 14/02/2017 Stg 2: 13/09/2017	RIA, Projects 6 € Mn
BB-03-2017: Adaptive tree breeding strategies and tools for forest production systems resilient to climate change and natural disturbances	Stg. 1: 14/02/2017 Stg 2: 13/09/2017	RIA, Projects 6 € Mn
BB-05-2017: Bio-based products: Mobilisation and mutual learning action plan	14/02/2017	CSA, Projects 3 € Mn
BB-07-2017: Plant Molecular Factory	14/02/2017	IA, Projects 9 € Mn
BB-08-2017: Strategies for improving the bioeconomy knowledge of the general public	14/02/2017	CSA, Projects 2 € Mn



# CROSS-CUTTING ACTIVITIES



# Cross-cutting activities– focus areas



<https://ec.europa.eu/programmes/horizon2020/en/h2020-section/cross-cutting-activities-focus-areas#Article>



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Horizon 2020

Work Programme 2016 - 2017

17. Cross-cutting activities (Focus Areas)

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[http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016\\_2017/main/h2020-wp1617-focus\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016_2017/main/h2020-wp1617-focus_en.pdf)



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## Cross-cutting activities– focus areas

### **INDUSTRY 2020 IN THE CIRCULAR ECONOMY (H2020-IND-CE-2016-17)**

15 Open Topics under the following global areas:

- Pilots
- Factories of the future (FoF)
- Sustainable Process Industries (SPIRE)
- Circular Economy

Call Link [HERE](#)

### **INTERNET OF THINGS (H2020-IOT-2016-2017)**

1 Open Topic

Call Link [HERE](#)

### **SMART AND SUSTAINABLE CITIES (H2020-SCC-2016-2017)**

2 Open Topics

Call Link [HERE](#)



# GRAZAS!

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