



## Highlights on Open Calls

November 2019, Issue 10

For easy identification, new calls compared to the previous issue are marked with the symbol  on the left.  
Updated information about calls compared to the previous issue are marked with the symbol  on the left.



### Horizon 2020

#### ERC PROOF OF CONCEPT GRANT **Open for submission**

**Topic:** Call for proposals for ERC Proof of Concept Grant  
**Call identifier:** ERC-2020-POC

The ERC Proof of Concept funding is made available only to those who already have an ERC award to establish proof of concept of an idea that was generated in the course of their ERC-funded projects. The activities to be funded shall draw substantially on this scientifically excellent ERC-funded research. However the additional funding is not aimed at extending the original research or predominantly concerned with overcoming obstacles to practical application. The funding will cover activities at the very early stage of turning research outputs into a commercial or socially valuable proposition, i.e. the initial steps of pre-competitive development.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/erc-2020-poc:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047825:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Excellent Science-  
European Research Council  
(ERC)

**Types of action:** ERC-POC-LS ERC  
Proof of Concept Lump Sum Pilot  
**Opening date:** 15 October 2019  
**Deadline:**

- 21 January 2020 17:00:00
- 23 April 2020 17:00:00
- 17 September 2020 17:00:00



European Research Council  
Established by the European Commission

#### ERC CONSOLIDATOR GRANT **Open for submission**

**Topic:** ERC CONSOLIDATOR GRANTS  
**Call identifier:** ERC-2020-COG

ERC Consolidator Grants are designed to support excellent Principal Investigators at the career stage at which they may still be consolidating their own independent research team or programme. The Principal Investigator shall have been awarded their first PhD over 7 and up to 12 years prior to 1 January 2020. A competitive Consolidator Grant Principal Investigator must have already shown research independence and evidence of maturity, for example by having produced several important publications as main author or without the participation of their PhD supervisor. Applicant Principal Investigators should also be able to demonstrate a promising track record of early achievements appropriate to their research field and career stage, including significant publications (as main author) in major international peer-reviewed multidisciplinary scientific journals, or in the leading international peer-reviewed journals of their respective field. They may also demonstrate a record of invited presentations in well-established international conferences, granted patents, awards, prizes etc. Consolidator Grants may be awarded up to a maximum of EUR 2 000 000 for a period of 5 years.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/erc-2020-cog:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047825:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Excellent Science-  
European Research Council  
(ERC)

**Types of action:** ERC-COG  
Consolidator Grant  
**Opening date:** 24 October 2019  
**Deadline:** 04 February 2020  
17:00:00



European Research Council  
Established by the European Commission

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**FET-OPEN – NOVEL IDEAS FOR RADICALLY NEW TECHNOLOGIES Open for submission**

**Topic:** FET Open: Challenging Current Thinking  
**Call identifier:** FETOPEN-01-2018-2019-2020

The specific Challenge is to lay the foundations for radically new future technologies of any kind from visionary interdisciplinary collaborations that dissolve the traditional boundaries between sciences and disciplines, including the social sciences and humanities. This topic also encourages the driving role of new actors in research and innovation, including excellent young researchers, ambitious high-tech SMEs and first-time participants to FET under Horizon 2020 from across Europe. Proposals are sought for cutting-edge high-risk / high-impact interdisciplinary research with all of the following essential characteristics: Radical vision (enabled by a new technology concept that challenges current paradigms); Breakthrough technological target (a novel and ambitious science-to-technology breakthrough as a first proof of concept); Ambitious interdisciplinary research (for achieving the technological breakthrough and that opens up new areas of investigation).

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/fetopen-01-2018-2019-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047826:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

*Horizon 2020 - Excellent Science - Future and Emerging Technologies (FET)*

**Types of action:** RIA Research and Innovation action

**Opening date:** 07 November 2017

**Deadline:** 13 May 2020 17:00:00



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**FET PROACTIVE – BOOSTING EMERGING TECHNOLOGIES Forthcoming**

**Topic:** Environmental Intelligence  
**Call identifier:** FETPROACT-EIC-08-2020

In the sub-topic “b. radically novel approaches to resilient, reliable and environmentally responsible in-situ monitoring”, projects are to focus on one or a few critical resources (e.g., water, air) and to establish fundamental advances on the most critical challenges that will underpin a step improvement in monitoring, analysis and management of important social/environmental processes for improving quality of life and environmental sustainability (possibly including aspects of waste, noise). Proposals should look for ground-breaking concepts of affordable sensor deployment, spanning maintenance, communication and retrieval, possibly based on concepts like self-deployment, self-awareness, self-repair and controlled decomposition; or using new concepts from micro-robots to optimise sensing or increase monitoring frequency.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/fetproact-eic-08-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047826:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

*Horizon 2020 - Excellent Science - Future and Emerging Technologies (FET)*

**Types of action:** RIA Research and Innovation action

**Opening date:** 19 December 2019

**Deadline:** 23 June 2020 17:00:00



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**FET-OPEN – NOVEL IDEAS FOR RADICALLY NEW TECHNOLOGIES Open for submission**

**Topic:** FET Innovation Launchpad  
**Call identifier:** FETOPEN-03-2018-2019-2020

Short individual or collaborative actions focused on the non-scientific aspects and the early stages of turning a result of an ongoing or recently finished project funded through FET under FP7 or Horizon 2020 into a genuine innovation with socio-economic impacts.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/fetopen-03-2018-2019-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047826:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

*Horizon 2020 - Excellent Science - Future and Emerging Technologies (FET)*

**Types of action:** CSA-LSP Coordination and support action Lump sum

**Opening date:** 09 October 2019

**Deadline:** 14 October 2020 17:00:00



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**BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE: NEXT-GENERATION BATTERIES Open for submission**

**Topic:** Novel methodologies for autonomous discovery of advanced battery chemistries (Focus area: Building a low-carbon, climate resilient future)  
**Call identifier:** LC-BAT-12-2020

The target is to develop a pilot materials platform for computational and experimental material characterization that would pave the way towards the development of a full-scale autonomous battery Material Acceleration Platform (MAP) enabling closed-loop materials discovery, automated characterization, device-level testing and addressing aspects related

*Horizon 2020 - Excellent Science - Future and Emerging Technologies (FET)*

**Types of action:** RIA Research and Innovation action

**Opening date:** 09 July 2019

**Deadline:** 16 January 2020 17:00:00

to manufacturability and recyclability. The pilot MAP should deliver a blueprint of the targeted autonomous material discovery platform that could demonstrate key features such as: the ability to use modeling, simulation and machine learning techniques to determine optimal materials composition, the ability to autonomously direct an automated material synthesis robot in optimizing selected battery materials and the ability to perform autonomous analysis and interpretation of experimental data and of deriving previously unknown structures and compositions.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-bat-12-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047826:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>



## ➔ BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE: NEXT-GENERATION BATTERIES **Open for submission**

**Topic:** Sensing functionalities for smart battery cell chemistries (Focus area: Building a low-carbon, climate resilient future)

**Call identifier:** LC-BAT-13-2020

Proposals should aim at smart functionalities incorporated into the battery cell and relying on the integration and development of various sensing technologies to transmit information out of the cell, in order to facilitate control of individual cells within the battery system. Sensors could be used to simultaneously measure with high sensitivity and resolution changes in multiple parameters, such as chemical composition, strain, temperature, pressure, and concentration of dissolved cations, and this at various locations and for diverse components within the cell, under different use cases, especially during high power charging.

**Read more on:**

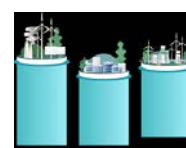
<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-bat-13-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047826:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Excellent Science - Future and Emerging Technologies (FET)

**Types of action:** RIA Research and Innovation action

**Opening date:** 09 July 2019

**Deadline:** 16 January 2020 17:00:00



## ➔ BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE: NEXT-GENERATION BATTERIES **Open for submission**

**Topic:** Self-healing functionalities for long lasting battery cell chemistries (Focus area: Building a low-carbon, climate resilient future)

**Call identifier:** LC-BAT-14-2020

Proposals should aim at developing innovative auto-repairing approaches for cell components such as mechanisms for on-demand administration of molecules that can solubilize a resistive deposit or at injecting self-repairing polymers to restore a defective electrode within the battery. They should lay the foundation for a sound scientific platform on battery self-healing relying on chemical/physical tooling. Whatever the pursued approach, it will have to comply with the electrochemical environment of the targeted cell environment, be readily adaptable to battery cell mass production processes and not hinder subsequent recycling process. The competitive advantage over alternative approaches like replacement or recycling or second-use should be demonstrated.

**Read more on:**

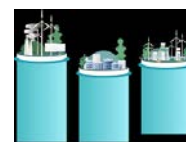
<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-bat-14-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047826:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Excellent Science - Future and Emerging Technologies (FET)

**Types of action:** RIA Research and Innovation action

**Opening date:** 09 July 2019

**Deadline:** 16 January 2020 17:00:00



## ➔ BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE: NEXT-GENERATION BATTERIES **Open for submission**

**Topic:** Coordinate and support the large scale research initiative on Future Battery Technologies (Focus area: Building a low-carbon, climate resilient future)

**Call identifier:** LC-BAT-15-2020

The specific challenge is to network and coordinate the large scale research initiative on Future Battery Technologies and its contribution to the broader efforts of the European research and innovation stakeholders in battery technologies foreseen at European level and in the Strategic Energy Technology (SET) Plan. Proposals are expected to coordinate the research activities and the stakeholders participating in the initiative; to facilitate communication, dialogue and cooperation on cross-cutting topics; to monitor the initiative's progress and maintain its roadmap; to provide support for its governance; to promote and communicate the objectives of the initiative and its achievements, including by ensuring media presence and public visibility, by engaging with industry and society and by

Horizon 2020 - Excellent Science - Future and Emerging Technologies (FET)

**Types of action:** CSA Coordination and support action

**Opening date:** 09 July 2019

**Deadline:** 16 January 2020 17:00:00



participating or organising outreach events; to identify training and education needs and promote European curricula in future battery technologies. In particular, proposals should identify and coordinate relevant efforts for modelling and data sharing, standardisation, IPR actions in cooperation with other relevant initiatives at European level.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-bat-15-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047826:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

## ➔ FET FLAGSHIPS - TACKLING GRAND INTERDISCIPLINARY SCIENCE AND TECHNOLOGY CHALLENGES **Forthcoming**

**Topic:** Quantum Flagship - ERA-NET Cofund

**Call identifier:** FETFLAG-04-2020

The specific challenge is to support transnational projects in quantum technologies, fostering synergy between European, national and regional initiatives and promoting broader partnerships between the European stakeholders in quantum technologies. Proposers are encouraged to implement other joint activities related to the coordination of public research and innovation programmes in quantum technologies, such as transnational networking, training, technology transfer and additional joint calls without EU co-funding.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/fetflag-04-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047826:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Excellent Science - Future and Emerging Technologies (FET)

**Types of action:** ERA-NET-Cofund ERA-NET Cofund

**Opening date:** 06 February 2020

**Deadline:** 07 May 2020 17:00:00



## ➔ MARIE SKŁODOWSKA-CURIE INNOVATIVE TRAINING NETWORKS **Open for submission**

**Topic:** Innovative Training Networks

**Call identifier:** MSCA-ITN-2020

ITN supports competitively selected joint research training and/or doctoral programmes, implemented by partnerships of universities, research institutions, research infrastructures, businesses, SMEs, and other socio-economic actors from different countries across Europe and beyond. The Innovative Training Networks (ITN) aim to train a new generation of creative, entrepreneurial and innovative early-stage researchers, able to face current and future challenges and to convert knowledge and ideas into products and services for economic and social benefit. Partnerships take the form of collaborative European Training Networks (ETN), European Industrial Doctorates (EID) or European Joint Doctorates (EJD). Each programme should have a clearly identified supervisory board co-ordinating network-wide training and establishing active and continuous communication and exchange of best practice among the participating organisations to maximise the benefits of the partnership.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/msca-itn-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047830:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Excellent Science - Marie-Sklodowska-Curie Actions

**Types of action:** MSCA-ITN-ETN European Training Networks; MSCA-ITN-EJD European Joint Doctorates; MSCA-ITN-EID European Industrial Doctorates

**Opening date:** 12 September 2019

**Deadline:** 14 January 2020 17:00:00



## ➔ MARIE SKŁODOWSKA-CURIE INDIVIDUAL FELLOWSHIPS **Forthcoming**

**Topic:** Individual Fellowships

**Call identifier:** MSCA-IF-2020

The goal of the Individual Fellowships is to enhance the creative and innovative potential of experienced researchers, wishing to diversify their individual competence in terms of skill acquisition through advanced training, international and intersectoral mobility. Individual Fellowships provide opportunities to researchers of any nationality to acquire and transfer new knowledge and to work on research and innovation in Europe (EU Member States and Horizon 2020 Associated Countries) and beyond. The scheme particularly supports the return and (re)integration of European researchers from outside Europe and those who have previously worked here, as well as researchers displaced by conflict outside the EU and Horizon 2020 Associated Countries. It also promotes the career restart of individual researchers who show great potential.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/msca-if-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047830:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Excellent Science - Marie-Sklodowska-Curie Actions

**Types of action:** MSCA-IF-GF Global Fellowships; MSCA-IF-EF-ST Standard European Fellowships; MSCA-IF-EF-SE Society and Enterprise panel; MSCA-IF-EF-RI Reintegration panel; MSCA-IF-EF-CAR Career Restart panel

**Opening date:** 08 April 2020

**Deadline:** 09 September 2020 17:00:00



## MARIE SKŁODOWSKA-CURIE CO-FUNDING OF REGIONAL, NATIONAL AND INTERNATIONAL PROGRAMMES **Forthcoming**

**Topic:** Co-funding of regional, national and international programmes  
**Call identifier:** MSCA-COFUND-2020

The COFUND scheme aims to stimulate regional, national or international programmes to foster excellence in researchers' training, mobility and career development, spreading the best practices of the Marie Skłodowska-Curie actions. This will be achieved by co-funding new or existing regional, national, and international programmes to open up to, and provide for, international, intersectoral and interdisciplinary research training, as well as transnational and cross-sectoral mobility of researchers at all stages of their career.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/msca-cofund-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047830:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Excellent Science - Marie-Sklodowska-Curie Actions

**Types of action:** MSCA-COFUND-FP Fellowship programmes; MSCA-COFUND-DP Doctoral programmes

**Opening date:** 08 April 2020

**Deadline:** 29 September 2020 17:00:00



## MARIE SKŁODOWSKA-CURIE RESEARCH AND INNOVATION STAFF EXCHANGE **Forthcoming**

**Topic:** Research and Innovation Staff Exchange  
**Call identifier:** MSCA-RISE-2020

The RISE scheme promotes international and cross-sector collaboration through exchanging research and innovation staff, and sharing knowledge and ideas from research to market (and vice-versa). The scheme fosters a shared culture of research and innovation that welcomes and rewards creativity and entrepreneurship and helps to turn creative ideas into innovative products, services or processes. RISE involves organisations from the academic and non-academic sectors (in particular SMEs), based in Europe (EU Member States and Horizon 2020 Associated Countries) and outside Europe (third countries). Support is provided for the development of partnerships in the form of a joint research and innovation project. This is aimed at knowledge sharing via international as well as intersectoral mobility, based on secondments of research and innovation staff (exchanges) with an in-built return mechanism.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/msca-rise-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047830:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Excellent Science - Marie-Sklodowska-Curie Actions

**Types of action:** MSCA-RISE RISE

**Opening date:** 05 December 2019

**Deadline:** 8 April 2020 17:00:00



## MARIE SKŁODOWSKA-CURIE EUROPEAN RESEARCHERS' NIGHT **Open for submission**

**Topic:** European Researchers' Night  
**Call identifier:** MSCA-NIGHT-2020

The European Researchers' Night aims to bring researchers closer to the general public and to increase awareness of research and innovation activities, with a view to supporting the public recognition of researchers, creating an understanding of the impact of researchers' work on citizen's daily life, and encouraging young people to embark on research careers. The European Researchers' Night takes place yearly, typically starting on the last Friday of the month of September, and is the occasion for a Europe-wide public and media event for the promotion of research careers, in particular towards young people and their families. Activities can take various forms, e.g. hands-on experiments, science shows, simulations, debates, games, competitions, quizzes, etc. Where appropriate, engagement with educational institutions should be sought in order to encourage formal and informal science education with the aim to improve the scientific knowledge base.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/msca-night-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047830:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Excellent Science - Marie-Sklodowska-Curie Actions

**Types of action:** CSA Coordination and support action

**Opening date:** 08 October 2019

**Deadline:** 09 January 2020 17:00:00



## FAST TRACK TO INNOVATION (FTI) **Open for submission**

**Topic:** Fast Track to Innovation (FTI)

**Call identifier:** EIC-FTI-2018-2020

FTI supports actions undertaking innovation from the demonstration stage through to market uptake, including activities such as piloting, test-beds, systems validation in real-world working conditions, validation of business models, pre-normative research, and standard-setting. If your proposal involves technological innovation, your consortium should declare that the technology or the technologies concerned are at least at Technology Readiness Level (TRL) 6. The intention will be to bring the TRL up to 8 for technological innovations and to an analogous level of maturity for non-technological innovations during the lifetime of the FTI action.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/eic-fti-2018-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Leadership in enabling and industrial technologies (LEIT) - Industrial Leadership

**Types of action:** IA Innovation action

**Opening date:** 07 November 2017

**Deadline:**

- 19 February 2020 17:00:00
- 09 June 2020 17:00:00
- 27 October 2020 17:00:00



## TRANSFORMING EUROPEAN INDUSTRY **Open for submission**

**Topic:** New biotechnologies to remediate harmful contaminants (Focus area: Connecting economic and environmental gains - the Circular Economy)

**Call identifier:** CE-BIOTEC-08-2020

Proposals should cover the following activities:

- Research and innovation for efficient and low cost remediation strategies using microorganisms by means of emerging biotechnologies that require minimum or zero external energy or chemicals and that reduce the remediation time compared to physicochemical processes;
- Work to ensure remediation in soil, sediments, mines, surface water, groundwater or industrial water;
- Develop a system to remove different contaminants, including complex mixtures, covering hydrocarbons and their derivatives, recalcitrant compounds, metals, nanomaterials, paints and coatings, nutrients, pharmaceuticals or micropollutants and toxic contaminants;
- Include field trials to prove an acceptable performance for field applications will be a plus.

This topic is part of the EU-China flagship initiative on Biotechnology for Environment and Human Health, which will promote substantial coordinated and balanced research and innovation cooperation between the EU and China. China-based legal entities have to apply for funding under the Chinese co-funding mechanism with the National Natural Science Foundation of China (NSFC).

Activities should start at TRL 3 and achieve TRL 6 at the end of the project.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-biotec-08-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047848:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Leadership in enabling and industrial technologies (LEIT) - Industrial Leadership

**Types of action:** RIA Research and Innovation action

**Opening date:** 03 July 2019

**Deadline:** 15 April 2020 17:00:00



## COMPETITIVE, LOW CARBON AND CIRCULAR INDUSTRIES **Open for submission**

**Topic:** ERA-NET on materials, supporting the circular economy and Sustainable Development Goals (Connecting economic and environmental gains - the Circular Economy)

**Call identifier:** CE-NMBP-41-2020

The proposed ERA-NET aims at coordinating the research efforts of the participating Member States, Associated States and Regions in the field of materials, continuing the activities started by M-ERA.NET, for materials research and innovation, especially targeting the circular economy and Sustainable Development Goals.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-nmbp-41-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047848:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Leadership in enabling and industrial technologies (LEIT) - Industrial Leadership

**Types of action:** ERA-NET-Cofund

**Opening date:** 03 July 2019

**Deadline:** 05 February 2020 17:00:00



## COMPETITIVE, LOW CARBON AND CIRCULAR INDUSTRIES Open for submission

**Topic:** Tapping into the potential of Industrial Symbiosis (Connecting economic and environmental gains - the Circular Economy)

**Call identifier:** CE-SPIRE-01-2020

Industrial Symbiosis holds significant potential to provide major improvements in resource and energy efficiency for all energy intensive industries. The full potential of industrial symbiosis could only unfold if the consequences for energy grids and adjacent infrastructures (e.g. waste heat recovery through district heating or heat integration in chemical processes, waste to energy, or waste and gaseous effluents management), as well as the regional dimension are taken into account.

Proposals are expected to address e.g.:

- Broader symbiosis, from local and regional perspectives, with infrastructures (e.g. waste and water management infrastructure, gas networks), communities and energy grids (e.g. smart operations scheduling, district heat integration);
- Management of side/waste streams (through e.g. capturing, purification, concentrating, sorting, collecting, exchanging or preparation) specifically for the use as resource for other plants and companies across sectors and/or across value chains;
- Process (re-)design and implementation to integrate and adapt existing processes to enhance industrial symbiosis (energy and material flow coupling, infrastructure and logistics);
- Integration of information technology, including artificial intelligence, and operational technology; appropriate ICT tools
- Assessment methodologies and KPIs to measure the performance of symbiosis, including environmental, economic and social impacts.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-spire-01-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047848:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Leadership in enabling and industrial technologies (LEIT) - Industrial Leadership

**Types of action:** IA Innovation action

**Opening date:** 03 July 2019

**Deadline:** 05 February 2020 17:00:00



## COMPETITIVE, LOW CARBON AND CIRCULAR INDUSTRIES Open for submission

**Topic:** Preserving fresh water: recycling industrial waters industry (Connecting economic and environmental gains - the Circular Economy)

**Call identifier:** CE-SPIRE-07-2020

Energy-intensive industries are major users of fresh water, for e.g. processing, washing, diluting, heating, cooling, and transporting products. Since fresh water is a scarce resource, breakthrough innovations are needed in energy-intensive industries to recycle water and create closed loops in industrial processes. Proposals should aim at near-zero discharge using closed-loop systems in combination with recovery of energy and/or substances (resources) through the development of integrated water-smart strategies for industrial processes.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-spire-07-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047848:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Leadership in enabling and industrial technologies (LEIT) - Industrial Leadership

**Types of action:** IA Innovation action

**Opening date:** 03 July 2019

**Deadline:** 05 February 2020 17:00:00



## COMPETITIVE, LOW CARBON AND CIRCULAR INDUSTRIES Open for submission

**Topic:** Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes

**Call identifier:** CE-SC5-07-2020

Actions for this topic should address only one of the following sub-topics:

- Sustainable processing and refining of primary and/or secondary raw materials: Actions should demonstrate new or improved systems integrating relevant processing and refining technologies for better recovery of minerals and metals at increased efficiency in terms of better yield and process selectivity as well as better utilisation of resources (hence reducing wastes).
- Recycling of raw materials from end-of-life products: Actions should develop and demonstrate novel and environmentally sound solutions for a higher recycling and recovery of secondary raw materials from end-of-life products such as waste electrical and electronic equipment (WEEE), batteries, wood-based panels, multi-material paper packaging, end-of-life tyres, etc.
- Recycling of raw materials from buildings and infrastructures
- Advanced sorting systems for high-performance recycling of complex end-of-life products: Actions should develop and demonstrate innovative dismantling and sorting systems enabling functional recycling of critical raw materials, or other types of highly

Horizon 2020 - Societal Challenges

**Types of action:** IA Innovation action

**Opening date:** 03 July 2019

**Deadline:**

- 05 February 2020 (first stage)
- 03 September 2020 (second stage)



efficient recovery of metals, minerals or construction materials, from complex end-of-life products and scrap thereof.

- e) Sustainable metallurgical processes: Actions should develop and demonstrate innovative metallurgical systems integrating pyro-, hydro-, bio-, and/or electro-metallurgical and/or electrochemical technologies, in order to enhance the production efficiency in terms of increased yield and selectivity, higher grade and purity of the produced metals from primary and/or secondary raw materials as well as the environmental performance throughout the whole life cycle.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-sc5-07-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047893,31047894,31047916,31047938,31047956,31047972,31047995,31048010:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

## ➡ BETTER HEALTH AND CARE, ECONOMIC GROWTH AND SUSTAINABLE HEALTH SYSTEMS **Open for submission**

**Topic:** Micro- and nano-plastics in our environment: Understanding exposures and impacts on human health

**Call identifier:** SC1-BHC-36-2020

Global plastic production has increased exponentially over the past decades. A significant proportion of the plastic produced is not disposed of properly and persists in the environment, especially the marine environment. Plastic products can be slowly degraded into smaller pieces (micro- or even nanoplastics). Furthermore, micro-plastics are intentionally added to, for example, toothpaste and beauty products (referred to as microbeads) or are a secondary by-product of rubber from, e.g. textiles, tyre wear or artificial turf. Plastic debris is associated with a "cocktail of contaminants" made up of chemical ingredients present originally in the plastic and chemical pollutants adsorbed to the plastic from the environment, including metals and other persistent contaminants such as polychlorinated biphenyls (PCBs) and flame retardants. The debris is filtered into marine species' gastrointestinal tract mechanically or it may look like food to some species, thus entering the food chain, with unknown effects. Proposals should use innovative approaches to provide policy relevant scientific data in support of improved human health hazard and risk assessment of micro and/or nano-plastics.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-bhc-36-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047894:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Societal Challenges - Health, demographic change and wellbeing

**Types of action:** RIA Research and Innovation action

**Opening date:** 04 July 2019

**Deadline:** 07 April 2020 17:00:00



## ➡ FOOD AND NATURAL RESOURCES **Open for submission**

**Topic:** Pilot action for the removal of marine plastics and litter (Connecting economic and environmental gains - the Circular Economy)

**Call identifier:** CE-FNR-09-2020

The overall goal of this topic is the demonstration of approaches or technologies to improve marine spatial planning and conservation (or even restoration) of coastal ecosystems. More specifically, this topic is for the demonstration of technologies to clean the seafloor and the surface of nearshore waters, and possibly the water column, from historically accumulated plastics and micro-plastics as well as from other accumulated marine litter and the assessment of effectiveness and impact. Accompanying research will have to address impacts on coastal ecosystems' food chains, biodiversity and functioning, fisheries, aquaculture, Marine Protected Areas, wild life and local economies (all of these) 6, 12, 18 and 24 months after the (start of the) cleaning. At the end of the project, the consortium is expected to identify a way forward and lay the foundations for upscaling with a view to a future potentially automated removal of historically accumulated marine litter (legacy), in particular at hot-spots of accumulated marine litter.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-fnr-09-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047916:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Societal Challenges - Food security, sustainable agriculture and forestry, marine, maritime and inland water research and the bioeconomy

**Types of action:** IA Innovation action

**Opening date:** 15 October 2019

**Deadline:** 22 January 2020 17:00:00





## ➔ FOOD AND NATURAL RESOURCES **Open for submission**

**Topic:** Innovative textiles – reinventing fashion (Connecting economic and environmental gains - the Circular Economy)

**Call identifier:** CE-FNR-14-2020

A shift in the market from petrochemical to bio-based fibres will require new processing technologies and huge market uptake of sustainable bio-based materials other than cotton, wool and silk. The challenge is to develop processing technologies and create an innovative and sustainable bio-based textile economy based on circular economy principles, thus making efficient use of resources, radically improving recycling, phasing out plastic microfibre release and accelerating the development and adoption of sustainable circular business models. Proposal should deliver solutions with work starting at technology readiness level (TRL) 5 and reaching TRL 6 or higher, where technological innovation is involved.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-fnr-14-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047916:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Societal Challenges - Food security, sustainable agriculture and forestry, marine, maritime and inland water research and the bioeconomy

**Types of action:** IA Innovation action

**Opening date:** 15 October 2019

**Deadline:** 22 January 2020 17:00:00



## ➔ FOOD AND NATURAL RESOURCES **Open for submission**

**Topic:** Pilot circular bio-based cities – sustainable production of bio-based products from urban biowaste and wastewater (Connecting economic and environmental gains - the Circular Economy)

**Call identifier:** CE-FNR-17-2020

Urban biowaste and wastewater are circular feedstocks that can be used to produce innovative bio-based products such as bio-based chemicals, plastics and fertilisers. Nevertheless, very few European cities have developed circular bio-based economy strategies and projects for the production of innovative bio-based products. The challenge is to foster investments and to implement projects to valorise urban biowaste and wastewater through the production of innovative bio-based products within the framework of targeted circular bio-based economy strategies in urban areas.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-fnr-17-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047916:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Societal Challenges - Food security, sustainable agriculture and forestry, marine, maritime and inland water research and the bioeconomy

**Types of action:** IA Innovation action

**Opening date:** 15 October 2019

**Deadline:** 22 January 2020 17:00:00



## ➔ FOOD AND NATURAL RESOURCES **Open for submission**

**Topic:** Closing nutrient cycles (Connecting economic and environmental gains - the Circular Economy)

**Call identifier:** CE-RUR-08-2020

Proposals should address only one of the following sub-topics:

- C.[2020] Bio-based fertilisers from by-products of the agri-food, fisheries, aquaculture or forestry sectors (IA): Projects shall demonstrate processes for recovery of mineral nutrients and production of novel fertilisers from by-products of the agri-food, fisheries, aquaculture or forestry sectors.
- D.[2020] Bio-based fertilisers from waste water and sewage sludge (RIA): Projects shall develop techniques for nutrients recovery from waste water streams such as urban and industrial waste water, sewage sludge from waste water treatment plants, brine from water desalination or demineralisation plants

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-rur-08-2018-2019-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047916:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Societal Challenges - Food security, sustainable agriculture and forestry, marine, maritime and inland water research and the bioeconomy

**Types of action:** RIA Research and Innovation action; IA Innovation action

**Opening date:** 15 October 2019

**Deadline:**

- RIA:
  - 22 January 2020 17:00:00 (first stage)
  - 08 September 2020 17:00:00 (second stage)
- IA: 22 January 2020 17:00:00



## ➔ SUSTAINABLE FOOD SECURITY **Open for submission**

**Topic:** Diversifying revenue in rural Africa through bio-based solutions (Connecting economic and environmental gains - the Circular Economy)

**Call identifier:** CE-SFS-36-2020

Proposals shall screen existing bio-based technologies that can be adapted and successfully transferred to rural African contexts. The selected technologies shall be integrated into one existing agri-food system without compromising food production, and without fundamentally changing established agricultural practices, provided that these are sustainable.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-sfs-36-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047916:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Societal Challenges - Food security, sustainable agriculture and forestry, marine, maritime and inland water research and the bioeconomy

**Types of action:** RIA Research and Innovation action

**Opening date:** 15 October 2019

**Deadline:**

- 22 January 2020 17:00:00 (first stage)
- 08 September 2020 17:00:00 (second stage)



## ➔ FOOD AND NATURAL RESOURCES **Open for submission**

**Topic:** Closing nutrient cycles (Connecting economic and environmental gains - the Circular Economy)

**Call identifier:** CE-RUR-08-2020

Proposals should address only one of the following sub-topics:

- C.[2020] Bio-based fertilisers from by-products of the agri-food, fisheries, aquaculture or forestry sectors (IA): Projects shall demonstrate processes for recovery of mineral nutrients and production of novel fertilisers from by-products of the agri-food, fisheries, aquaculture or forestry sectors.
- D.[2020] Bio-based fertilisers from waste water and sewage sludge (RIA): Projects shall develop techniques for nutrients recovery from waste water streams such as urban and industrial waste water, sewage sludge from waste water treatment plants, brine from water desalination or demineralisation plants

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-rur-08-2018-2019-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047916:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Societal Challenges - Food security, sustainable agriculture and forestry, marine, maritime and inland water research and the bioeconomy

**Types of action:** RIA Research and Innovation action; IA Innovation action

**Opening date:** 15 October 2019

**Deadline:**

- RIA:
  - 22 January 2020 17:00:00 (first stage)
  - 08 September 2020 17:00:00 (second stage)
- IA: 22 January 2020 17:00:00



## ➔ FOOD AND NATURAL RESOURCES **Open for submission**

**Topic:** Enzymes for more environment-friendly consumer products

**Call identifier:** FNR-16-2020

It has been demonstrated that the unique selectivity and catalytic activity of enzymes gives them significant potential to support sustainability, reduce environmental pollution, lower processing costs and enhance product performance and functionalities. Growing environmental concerns have contributed to the rapid growth in the market for enzymes and their use in various industrial and speciality applications. Enzymes find application in the processing phase and in the formulation of consumer products such as washing agents, textiles, personal care, cosmetics or nutraceuticals. The specific challenge is to expand the use of enzymes to respond to the steadily growing demand for greener consumer products, combining economic competitiveness and greater sustainability.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/fnr-16-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047916:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Societal Challenges - Food security, sustainable agriculture and forestry, marine, maritime and inland water research and the bioeconomy

**Types of action:** RIA Research and Innovation action

**Opening date:** 15 October 2019

**Deadline:** 22 January 2020 17:00:00



## FOOD AND NATURAL RESOURCES **Open for submission**

**Topic:** Bio-based industries leading the way in turning carbon dioxide emissions into chemicals (Building a low-carbon, climate resilient future)

**Call identifier:** LC-FNR-13-2020

Proposals should address one of the following mutually compatible concepts:

- innovative technologies for converting CO<sub>2</sub> from industrial plants processing biomass into bio-based products, as direct feedstock for the production of added-value chemicals and their integration into the plants' flowchart; and
- biotechnological processes for the conversion of CO<sub>2</sub> into added-value chemicals.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-fnr-13-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047916:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Societal Challenges - Food security, sustainable agriculture and forestry, marine, maritime and inland water research and the bioeconomy

**Types of action:** RIA Research and Innovation action

**Opening date:** 15 October 2019

**Deadline:**

- 22 January 2020 17:00:00 (first stage)
- 08 September 2020 17:00:00 (second stage)



## EIC HORIZON PRIZE FOR 'FUEL FROM THE SUN: ARTIFICIAL PHOTOSYNTHESIS' **Open for submission**

**Topic:** EIC Horizon Prize for 'Fuel from the Sun: Artificial Photosynthesis'

**Call identifier:** Sunfuel-EICPrize-2021

The challenge is to build a fully functional, bench-scale prototype of an artificial photosynthesis based system which is able to produce a useable synthetic fuel. Due to its ability to use a combination of sunlight, water and carbon from the air to produce energy, artificial photosynthesis is regarded as a potential breakthrough energy technology. For the purpose of this prize, artificial photosynthesis (AP) is understood to be a process that aims at mimicking the physical chemistry of natural photosynthesis by absorbing solar energy in the form of photons. The solution is required to use this energy to generate fuel molecules through a synthetic system to be delivered as a single integrated device that utilises either biomimetic, nanotechnology, synthetic biology or a combination of these systems.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047938:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Societal Challenges - Secure, clean and efficient energy

**Types of action:** IPr Inducement Prize

**Opening date:** 12 December 2017

**Deadline:** 03 February 2021 17:00:00



## SECURE, CLEAN AND EFFICIENT ENERGY **Forthcoming**

**Topic:** Development of next generation renewable fuel technologies from CO<sub>2</sub> and renewable energy - Power and Energy to Renewable Fuels (Building a low-carbon, climate resilient future)

**Call identifier:** LC-SC3-RES-26-2020

The specific challenge is to increase the competitiveness of next generation renewable fuels through efficiently integrating unexploited renewable energy sources in their production process and to foster their use as a renewable energy storage option taking advantage of the existing infrastructure for gaseous and liquids fuels. Proposals will develop next generation renewable fuels for energy and transport, which improve substantially (beyond the state-of-the-art), the performance regarding energy efficiency as well as cost of the conversion of direct renewable energy or renewable electricity and /or heat to liquid or gaseous renewable fuels from CO<sub>2</sub>. Targeted fuels should also provide very low engine-out emissions. Proposals are expected to bring the technology from TRL 3-4 to 4-5.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-res-26-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047938:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Societal Challenges - Secure, clean and efficient energy

**Types of action:** RIA Research and Innovation action

**Opening date:** 03 December 2019

**Deadline:** 21 April 2020 17:00:00



## SECURE, CLEAN AND EFFICIENT ENERGY **Forthcoming**

**Topic:** Combined clean biofuel production and phytoremediation solutions from contaminated lands worldwide (Building a low-carbon, climate resilient future)

**Call identifier:** LC-SC3-RES-37-2020

Proposals will bridge the gap between phytoremediation strategies and clean liquid biofuel production. They will optimise energy crops for phytoremediation by targeting different classes of known soil pollutants and integrate in the conversion process to biofuels a strategy to

Horizon 2020 - Societal Challenges - Secure, clean and efficient energy

**Types of action:** RIA Research and Innovation action

**Opening date:** 03 December 2019

**Deadline:** 21 April 2020 17:00:00

extract these pollutants in concentrated form. The overall process will be optimized in terms of cost and sustainability. Pilot-scale, small trials are expected for both clean biofuel production and phytoremediation processes. Proposals are expected to bring technologies from TRL 3-4 to TRL 4-5.

**Read more on:**

[https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-res-37-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501\\_31094502:programCode=H2020:programDivisionCode=31047938:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-res-37-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501_31094502:programCode=H2020:programDivisionCode=31047938:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState)



## COMPETITIVE, LOW CARBON AND CIRCULAR INDUSTRIES **Forthcoming**

**Topic:** Industrial (Waste) Heat-to-Power conversion (Building a low-carbon, climate resilient future)

**Call identifier:** LC-SC3-CC-9-2020

Better use of process excess/waste heat represents a significant source of energy savings for industries. In a context of reducing greenhouse gas emissions and introducing the concept of circular economy in heat management in view of industrial process electrification, European industries have a clear interest in finding new ways to capture the heat produced by their process and to reuse it or to produce electricity. Proposals will integrate an industrial waste heat-to-power conversion system using one type of fluid (supercritical CO<sub>2</sub> or organic) and demonstrate the system operation in industrial environment at an output power level of at least 2 MW, with improved cost efficiency compared to existing solutions. Proposals are expected to bring the technologies to TRL 6 or 7.

**Read more on:**

[https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-cc-9-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501\\_31094502:programCode=H2020:programDivisionCode=31047938:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-cc-9-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501_31094502:programCode=H2020:programDivisionCode=31047938:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState)

Horizon 2020 - Societal Challenges - Secure, clean and efficient energy

**Types of action:** IA Innovation action

**Opening date:** 05 May 2020

**Deadline:** 01 September 2020 17:00:00



## COMPETITIVE, LOW CARBON AND CIRCULAR INDUSTRIES **Forthcoming**

**Topic:** Low carbon industrial production using CCUS (Building a low-carbon, climate resilient future)

**Call identifier:** LC-SC3-NZE-5-2020

Carbon Capture Utilization and Storage (CCUS) in industrial applications faces significant challenges due to its high cost and the fierce international competition in the sectors concerned. However, these sectors currently account for 20% of global CO<sub>2</sub> emissions, and in the 2 degree scenario, should represent half of the stored CO<sub>2</sub> by 2050. Relevant sectors with high CO<sub>2</sub> emissions are for example steel, iron and cement making, oil refining, gas processing, hydrogen production, biofuel production and waste incineration plants. Projects will focus on integrating CO<sub>2</sub> capture in industrial installations, whilst addressing the full CCUS chain. Projects will elaborate a detailed plan on how to use the results, i.e. the subsequent transport, utilisation and/or underground storage of the captured CO<sub>2</sub>. Important aspects to address are of technical (e.g. the optimised integration of capture plant with industrial processes; scalability; CO<sub>2</sub> purity), safety (e.g. during transportation and storage), financial (e.g. cost of capture; cost of integration) and strategic nature (e.g. business models; operation and logistics of industrial clusters and networks). Projects are expected to bring technologies to TRL 6-7.

**Read more on:**

[https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-nze-5-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501\\_31094502:programCode=H2020:programDivisionCode=31047938:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-nze-5-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501_31094502:programCode=H2020:programDivisionCode=31047938:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState)

Horizon 2020 - Societal Challenges - Secure, clean and efficient energy

**Types of action:** IA Innovation action

**Opening date:** 05 May 2020

**Deadline:** 01 September 2020 17:00:00



## BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE: SECURE, CLEAN AND EFFICIENT ENERGY **Forthcoming**

**Topic:** International cooperation with Japan for Research and Innovation on advanced biofuels and alternative renewable fuels (Building a low-carbon, climate resilient future)

**Call identifier:** LC-SC3-RES-25-2020

Disruptive conversion technologies are needed for replacing completely the use of fossil fuels in the transport and heating sectors with advanced biofuels and alternative renewable fuels. International collaboration is mutually beneficial in strategic areas where knowledge can be exchanged and Europe can obtain leadership together with its international partners. Proposals will aim at international cooperation with Japan involving Japanese organisations in the consortia for the development of disruptive catalytic technologies, by developing novel catalysts and linked lab-scale components/systems with significantly improved performance for conversion efficiency and specific marginal cost reduction for obtaining low-cost

Horizon 2020 - Societal Challenges - Secure, clean and efficient energy

**Types of action:** RIA Research and Innovation action

**Opening date:** 05 May 2020

**Deadline:** 01 September 2020 17:00:00



bioenergy carriers, non-food/feed based advanced biofuels and alternative renewable fuels (excluding hydrogen) and maximizing GHG abatement. Proposals are expected to bring technologies to TRL 3. Due to the specific challenge of this topic, in addition to the minimum number of participants set out in the General Annexes, proposals must include at least one legal entity established in Japan.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-res-25-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047938:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

## ➔ BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE: SECURE, CLEAN AND EFFICIENT ENERGY Forthcoming

**Topic:** International Cooperation with USA and/or China on alternative renewable fuels from sunlight for energy, transport and chemical storage (Building a low-carbon, climate resilient future)

**Call identifier:** LC-SC3-RES-3-2020

Proposals will aim at international cooperation with the USA and/or China on targeted research activities for obtaining advanced biofuels and alternative renewable fuels for energy and transport through photochemical/ photobiological or electrochemical reaction. At least one of the following technology-specific challenges has to be addressed: Improved light-harvesting and efficient charge separation in photocatalytic systems; Photoelectrochemical cells – PECs and catalyst development; Improved light harvesting coupled with improved CO2 reduction efficiency in synthetic biological systems. Proposals are expected to bring technologies to TRL 3-4. Due to the specific challenge of this topic, in addition to the minimum number of participants set out in the General Annexes, proposals must include at least one participant established in the following countries: USA or China.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-res-3-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047938:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Societal Challenges - Secure, clean and efficient energy

**Types of action:** RIA Research and Innovation action

**Opening date:** 05 May 2020

**Deadline:** 01 September 2020 17:00:00



## ➔ BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE: SECURE, CLEAN AND EFFICIENT ENERGY Forthcoming

**Topic:** Demonstration of innovative and sustainable hydropower solutions targeting unexplored small-scale hydropower potential in Central Asia (Building a low-carbon, climate resilient future)

**Call identifier:** LC-SC3-RES-34-2020

The challenge is to demonstrate innovative solutions targeting unexploited small-scale hydropower potential in Central Asia that will contribute to solve the particular cross-border water and energy management challenges in the region. The demonstration will provide solutions for realising innovative and sustainable hydropower, based on synergies between innovative European hydropower technology, research and industry partners, and the Central Asian hydropower sector. Therefore, the demonstration activities shall take place in Central Asia (Kazakhstan, the Kyrgyz Republic, Tajikistan, Turkmenistan or Uzbekistan), with participation of local partners. Proposals are expected to bring the technology from TRL 6-7 to 7-8.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-res-34-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047938:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

Horizon 2020 - Societal Challenges - Secure, clean and efficient energy

**Types of action:** IA Innovation action

**Opening date:** 05 May 2020

**Deadline:** 01 September 2020 17:00:00



## ➔ BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE: SECURE, CLEAN AND EFFICIENT ENERGY Forthcoming

**Topic:** International cooperation with Canada on advanced biofuels and bioenergy (Building a low-carbon, climate resilient future)

**Call identifier:** LC-SC3-RES-36-2020

The optimisation of advanced biomass supply chains and overcoming specific conversion technology barriers are needed to improve the market up-take of sustainable advanced biofuels and bioenergy and accelerate their deployment for replacing the use of fossil fuels in the transport, power and heating sectors. International collaboration is mutually beneficial in strategic areas where knowledge can be exchanged and Europe can obtain leadership together with its international partners. Proposals will aim at international cooperation with Canada for fostering the deployment of advanced biofuels and bioenergy while substantially decreasing the costs of the feedstock supply or the conversion process. Proposals should address at least one of the following issues:

Horizon 2020 - Societal Challenges - Secure, clean and efficient energy

**Types of action:** RIA Research and Innovation action

**Opening date:** 05 May 2020

**Deadline:** 01 September 2020 17:00:00



- Development of the full supply chain of biomass-to-bioenergy applications including intermediate bioenergy carriers, advanced biofuels, heat and power generation. Sustainable biomass production and collection strategies that facilitate sustainable bioenergy production and decrease feedstock supply costs will be included. All types of non-food/feed biomass including forestry, agricultural and their residues, organic fractions of municipal and industrial wastes can be targeted.
- Thermochemical, biochemical and chemical processing of sustainable biomass to advanced biofuels focusing on the pre-treatment and the conversion process and in particular on reducing the respective marginal cost.

Proposals are expected to bring the technology from TRL 3 to TRL 5. Due to the specific challenge of this topic, in addition to the minimum number of participants set out in the General Annexes, proposals must include at least one legal entity established in Canada.

**Read more on:**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-res-36-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094501,31094502:programCode=H2020:programDivisionCode=31047938:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

## EIC HORIZON PRIZE FOR 'AFFORDABLE HIGH-TECH FOR HUMANITARIAN AID' **Open for submission**

**Topic:** EIC Horizon Prize for 'Affordable High-Tech for Humanitarian Aid'

**Call identifier:** HumanitarianAid-EICPrize-2020

The expected Impact is more cost-effective, more sustainable and higher-quality innovative solutions, leading to an optimised use of humanitarian funding and an enhanced response to urgent needs in a humanitarian aid settings, notably for those in a most vulnerable situation, in areas such as shelter, water and sanitation, energy, heating or cooling, food, hygiene and medical care. Five prizes of EUR 1 million will be awarded, one in each of the categories.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/humanitarianaid-eicprize-2020.html>

Horizon 2020 - Industrial Leadership

**Types of action:** IPr Inducement Prize

**Opening date:** 30 November 2017

**Deadline:** 15 January 2020 17:00:00



## Environment - European Commission

### 2019 CALL FOR PROPOSALS FOR PREPARATORY PROJECTS (THIRD ROUND) **Open for submission**

**Topic:** Environment

Preparatory projects address specific needs for the development and implementation of EU environmental policy and law. The specific topics are indicated in the annual call for proposals. Projects receive a co-funding of up to 60%

**Read more on:**

<https://ec.europa.eu/easme/en/section/life/calls-proposals>

LIFE Programme - European Programme for the Environment and Climate Action - Environment sub-programme

**Types of action:** Preparatory projects

**Opening date:** 06 September 2019

**Deadline:**

- 11 January 2020 17:00:00
- 25 March 2020 17:00:00



## ➔ COST OPEN CALL FOR PROPOSALS **Open for submission**

**Topics:** all scientific disciplines

COST (European Cooperation in Science and Technology) is a pan-European intergovernmental framework dedicated to networking activities for European researchers to jointly develop their own ideas and new initiatives across all scientific disciplines through trans-European coordination of nationally funded research activities. COST has been contributing to closing the gap between science, policy makers and society throughout Europe and beyond since its creation in 1971.

**Read more on:**

<https://www.cost.eu/funding/how-to-get-funding/open-call/>

*COST (European Cooperation in Science and Technology)*

**Types of action:** trans-European cooperation

**Deadline:** 29 April 2020 12:00:00



## Ministry of Education, University and Research-MIUR

### AVVISO PUBBLICO PER L'EROGAZIONE DI FINANZIAMENTI NELL'AMBITO DEL FONDO DI FONDI DEL PROGRAMMA OPERATIVO NAZIONALE RICERCA E INNOVAZIONE 2014-2020 (PON R&I)

#### **Open for submission**

**Topics:** Biotecnologie Industriali; Fotonica; Materiali Avanzati; Micro/Nanoelettronica; Nanotecnologie; Sistemi manifatturieri avanzati.

In attuazione del Programma Operativo Nazionale (PON) Ricerca e Innovazione 2014-2020 e allo scopo di incrementare gli investimenti in ricerca e sviluppo fornendo adeguati strumenti finanziari, il Ministero dell'Istruzione, dell'Università e della Ricerca (MIUR) ha creato un "Fondo di fondi" di rilevanza nazionale per la ricerca e l'innovazione gestito dalla Banca europea per gli investimenti (BEI). Gli investimenti che i Fondi Ricerca e Innovazione potranno finanziare comprendono attività di ricerca industriale e sviluppo sperimentale in linea con i criteri di selezione del PON Ricerca e Innovazione e promuovono lo sviluppo e l'utilizzo delle tecnologie abilitanti fondamentali (Key Enabling Technologies - KETs) per le aree tematiche della Strategia Nazionale di Specializzazione Intelligente. La strategia di investimento del Fondo prevede anche la possibilità di realizzare una piattaforma nazionale per la ricerca e l'innovazione con eventuali apporti di risorse proprie da parte della BEI, di altri programmi operativi nazionali e regionali, e/o di altri intermediari finanziari nazionali e regionali. L'attuazione dello strumento finanziario interessa innanzitutto le otto regioni target del PON (Basilicata, Calabria, Campania, Puglia, Sicilia, Abruzzo, Molise e Sardegna), ma anche le rimanenti aree del Paese.

**Read more on:**

<http://www.ponricerca.gov.it/>

*PON Ricerca e Innovazione 2014-2020*

**Types of action:** Investimenti in R&I

**Deadline:** 31 December 2022  
(Bando a sportello)



## Ministry of Foreign Affairs and International Cooperation-MAECI

## ➔ ITALY – BRAZIL JOINT SCIENCE AND TECHNOLOGY COOPERATION CALL FOR JOINT PROJECT PROPOSALS

**Topics:** 1. Artificial Intelligence; 2. Basic Sciences (Chemistry, Physics and Mathematics); 3. Communicable diseases; 4. Distributed power generation from renewable sources; 5. Nutrition and metabolic diseases; 6. Precision Agriculture; 7. Space science; 8. Sustainable production and use of strategic minerals

The present call concerns joint research projects of "Particular Relevance", where research activities are co-funded by both Parties. In Italy, this scheme requires about 50% co-funding by the proposing research institution. For the Italian Party, the call is open to public or private research organizations. For the Brazilian Party the call is open to o Coordinators/researchers, who are implementing research activities within Brazilian universities, institutes or research

*Scientific and Technological Cooperation Agreement between the Government of the Italian Republic and the Government of the federal Republic of Brazil*

**Types of action:** joint research projects of "Particular Relevance"

**Opening date:** 25 November 2019

**Deadline:** 24 January 2020 17:00:00



centres. Projects must have the same duration of the Executive Protocol (three-years: 2020-2022).

Read more on:

[https://www.esteri.it/mae/it/politica\\_estera/cooperscientificatecnologica/avvisiincaricobandi.html?id=1922](https://www.esteri.it/mae/it/politica_estera/cooperscientificatecnologica/avvisiincaricobandi.html?id=1922)

## Consiglio Nazionale delle Ricerche

### BILATERAL AGREEMENT CNR/ SRNSF (SHOTA RUSTAVELI NATIONAL SCIENCE FOUNDATION) - Georgia - Bilateral Agreements

**Topics:** tutte le aree disciplinari.  
**Call identifier:** CNR/ SRNSF

In relazione alle attività previste dall'Accordo di cooperazione scientifica e tecnologica tra Consiglio Nazionale delle Ricerche (CNR) e Shota Rustaveli National Science Foundation (SRNSF), Georgia, sono state avviate le procedure previste per la selezione di progetti comuni di ricerca.

Le Parti selezioneranno i progetti comuni di ricerca sulla base delle valutazioni scientifiche, italiane e straniere, della disponibilità finanziaria e di quanto previsto dall'Accordo.

L'Accordo tra CNR e SRNSF prevede il finanziamento di massimo 10 (dieci) progetti, con un contributo annuale massimo, per parte, di Euro 5.000 per ciascun progetto.

Sono rendicontabili le spese relative a:

1. soggiorni di ricerca effettuati esclusivamente in Georgia e di durata non inferiore a 3 (tre) gg.
2. spese di ricerca, per un importo massimo del 35% delle spese sostenute per i soggiorni di ricerca (esempio: se per soggiorni di ricerca sono stati spesi Euro 3.000,00, al massimo potranno essere utilizzati per spese di ricerca Euro 1.050,00).

Read more on:

<https://www.cnr.it/it/accordi-bilaterali/documento-bando/8801/bando-accordo-cnr-srnsf-georgia-biennio-2020-2021-signed.pdf>

**Types of action:** Joint research projects in the biennium 2020 - 2021

**Deadline:** 04 December 2019 12:00:00



## Regione Calabria

### INGEGNO

**Topics:** Agroalimentare, Edilizia Sostenibile, Turismo e Cultura, Logistica, ICT e Terziario innovativo, Smart Manufacturing, Ambiente e Rischi Naturali, Scienze della Vita.

È stato pubblicato sul Bollettino Ufficiale della Regione Calabria n. 126 del 15/11/2019, il bando che dà attuazione all'Azione 1.1.5 del POR Calabria FESR FSE 14/20 - Sostegno all'avanzamento tecnologico delle imprese attraverso il finanziamento di linee pilota e azioni di validazione precoce di prodotti e di dimostrazione su larga scala. Un percorso partito dalla presentazione di un risultato della ricerca scientifica e inserito in un format di affiancamento alla valorizzazione industriale di prodotti e di processi innovativi. L'importante iniziativa, infatti, si è sviluppata per fasi: raccolta dei risultati della ricerca in uno stadio di sviluppo compreso tra TRL4 e TRL7 (Fase 1); valutazione della coerenza con la S3 Calabria (Fase 2); presentazione dei risultati della ricerca nella vetrina pubblica di INGEGNO rivolta alle aziende (Fase 3); infine, gestione dei rapporti di collaborazione con le imprese interessate ad avviare progetti di convalida industriale (Fase 4).

Candidarsi è semplice: le aziende calabresi, a partire dalle 12:00 del 16 dicembre, potranno presentare Domanda di Accesso utilizzando la modulistica scaricabile dal sito web Calabria Europa secondo due possibili percorsi. Il primo: l'azienda sceglie un risultato della ricerca dalla vetrina INGEGNO e avvia un percorso di conoscenza fra imprenditore e gruppo di ricerca, con un'eventuale erogazione di fondi in regime di de minimis (FASE I) e, solo dopo aver concluso positivamente tale percorso, i due soggetti, in rapporto di collaborazione effettiva, decidono se candidare alla successiva fase. Secondo percorso possibile: l'azienda e il gruppo di ricerca, scelto dalla vetrina INGEGNO, candidano direttamente a FASE II il proprio progetto di convalida industriale da realizzare entro 18 mesi.

Read more on:

<http://calabriaeuropa.regione.calabria.it/website/view/news/1125/index.html>

POR CALABRIA FESR-FSE 2014-2020

**Opening date:** 16 December 12:00:00

**Deadline:** Bando a sportello







# ARTES 4.0 Advanced Robotics and enabling digital Technologies & Systems

## ➔ BANDO PER IL FINANZIAMENTO DI PROGETTI DI RICERCA INDUSTRIALE E SVILUPPO SPERIMENTALE

Associazione ARTES 4.0 - progetti di ricerca industriale e sviluppo sperimentale

**Deadline:** 18 dicembre 2019 23:59:00 (fase 1)

### Topics:

- Modeling, sviluppo e caratterizzazione materiali avanzati
- Robotica e macchine collaborative
- Sistemi di controllo model-based per sistemi multivariabili
- Tecnologie per l'ottimizzazione real-time di processo
- Realtà aumentata, virtuale e sistemi di telepresenza multisensoriale e Human Computer Interaction
- Tecnologie per la manutenzione predittiva e training
- Soluzioni 4.0 per la tutela della salute dei lavoratori e la sicurezza sul lavoro
- Sensori realizzabili con diverse tecnologie
- Digitalizzazione e robotizzazione di processi
- Tecnologie, reti e sistemi di comunicazione per connettere robot e/o macchine e persone
- Applicazioni e tecnologie per archiviazione ed elaborazione di dati
- Infrastrutture software di base, sistemi operativi e middleware
- Tecnologie per la cyber-security
- Digitalizzazione delle attività di fabbrica

**Call identifier:** BANDO ARTES 4.0 – N°1 2019



I progetti ammissibili al finanziamento devono essere integralmente compresi in una o entrambe le seguenti categorie di ricerca: ricerca industriale; sviluppo sperimentale.

Possono partecipare start-up, piccole, medie e grandi imprese in forma singola o in collaborazione. Le università e gli organismi di ricerca possono partecipare come fornitori di beni e servizi. Ogni proposta verrà cofinanziata nella misura massima del 50% dei costi fino all'importo massimo di 200.000 €.

I progetti ammissibili al finanziamento hanno ad oggetto l'attività di ricerca industriale e sviluppo sperimentale tramite l'utilizzo di tecnologie in ambito Impresa 4.0 finalizzate: alla realizzazione di: nuovi prodotti, nuovi processi, nuovi servizi, modelli di business e organizzativi; al notevole miglioramento di: prodotti esistenti, processi esistenti, servizi, modelli di business e organizzativi.

### Read more on:

<https://artes4.it/bandi/>

**➔ BANDO PER IL FINANZIAMENTO DI PROGETTI DI RICERCA INDUSTRIALE E SVILUPPO  
SPERIMENTALE**

**Topic:** settore della ricerca scientifica e tecnologica in genere  
**Call identifier:** BANDO ACRI YITP2019

il bando ACRI "Young Investigator Training Program 2019" che ha l'obiettivo di favorire la ricerca scientifica e le collaborazioni internazionali tra Centri di ricerca, promuovendo le iniziative di mobilità dei giovani ricercatori. Il bando promuove la partecipazione di giovani ricercatori che operano in strutture di ricerca all'estero a congressi di rilevanza internazionale organizzati da enti di ricerca italiani. Conseguentemente a tale partecipazione, il bando intende sostenere l'attività di ricerca, della durata di almeno 1 mese, dei giovani ricercatori presso una rete di Centri di ricerca italiani. Sono destinatari del presente bando le università, gli istituti di ricerca di natura pubblica e/o privata e altri enti di ricerca, purché non aventi fini di lucro e impegnati attivamente nel settore della ricerca scientifica e tecnologica in genere. Si prevede di assegnare premi di ricerca dell'importo di 3.000 euro per giovani ricercatori dell'area europea e di 4.000 euro per i giovani ricercatori dell'area extra-europea. Ad ogni iniziativa selezionata sarà assegnato un contributo per spese di segreteria fino a un massimo di 4.000 euro.

**Read more on:**

<https://www.acri.it/PublicFondazioniOnline/Detail/4863>

*ACRI Associazione di Fondazioni e  
di Casse di Risparmio Spa - mobilità  
di giovani ricercatori.*

**Deadline:** 16 dicembre 2019

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(CNR- ITM)**

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