



## Highlights on Open Calls

July 2018, Issue 4

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



### Horizon 2020

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#### ERC PROOF OF CONCEPT GRANT

**Topic:** Applications may be made in any field of research  
**Call identifier:** ERC-2018-PoC

Frontier research often generates unexpected or new opportunities for commercial or societal application. The ERC Proof of Concept Grants aim to maximise the value of the excellent research that the ERC funds, by funding further work (i.e. activities which were not scheduled to be funded by the original ERC frontier research grant) to verify the innovation potential of ideas arising from ERC funded projects. Proof of Concept Grants are therefore on offer only to Principal Investigators whose proposals draw substantially on their ERC funded research.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/erc-2018-poc.html>

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**Types of action:** ERC-POC Proof of Concept Grant

**Opening date:** 06 September 2017

**Deadline:** 11 September 2018 17:00:00



European Research Council  
Established by the European Commission

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#### ERC ADVANCED GRANTS

**Topic:** Applications may be made in any field of research  
**Call identifier:** ERC-2018-AdG

Advanced Grants are designed to support excellent Principal Investigators at the career stage at which they are already established research leaders with a recognised track record of research achievements. Applicant Principal Investigators must demonstrate the ground-breaking nature, ambition and feasibility of their scientific proposal.

**Read more on:**

<https://erc.europa.eu/funding/advanced-grants>

*Horizon 2020 - Excellent Science*

**Types of action:** ERC-ADG Advanced Grant

**Opening date:** 17 May 2018

**Deadline:** 30 August 2018



European Research Council  
Established by the European Commission

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#### FET PROACTIVE – BOOSTING EMERGING TECHNOLOGIES

**Topic:** FET ERA-NET Cofund  
**Call identifier:** FETPROACT-03-2018

Proposals should coordinate and pool the necessary financial resources from the participating national (or regional) research programmes in the FET domain by implementing a joint transnational call for proposals resulting in grants to third parties with EU co-funding, possibly followed by further transnational calls for proposals without EU co-funding. The action may also organise additional joint activities in the FET domain between the participating funding agencies. Two activities are mandatory: 1. Identifying future and emerging technologies where transnational cooperation and community structuration is needed, in complementarity and synergy with FET; 2. Developing strategic agendas for these topics and accompanying the structuration of the related communities through workshops and transversal activities.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/fetproact-03-2018.html>

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

**Opening date:** 05 June 2018

**Deadline:** 18 December 2018 17:00:00



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#### FET-OPEN – NOVEL IDEAS FOR RADICALLY NEW TECHNOLOGIES

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

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

*Horizon 2020 - Excellent Science*

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

**Opening date:** 07 November 2017

**Deadline:**

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/research/participants/portal/desktop/en/opportunities/h2020/topics/fetopen-01-2018-2019-2020.html>

- 24 January 2019 17:00:00
- 18 September 2019 17:00:00
- 13 May 2020 17:00:00



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#### FET-OPEN – NOVEL IDEAS FOR RADICALLY NEW TECHNOLOGIES

**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/research/participants/portal/desktop/en/opportunities/h2020/topics/fetopen-03-2018-2019-2020.html>

*Horizon 2020 - Excellent Science*

**Types of action:**

CSA Coordination and support action

**Opening date:** 07 November 2017

**Deadline:**

- 16 October 2018 17:00:00
- 08 October 2019 17:00:00
- 14 October 2020 17:00:00



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#### MARIE SKŁODOWSKA-CURIE INDIVIDUAL FELLOWSHIPS

**Topic:** Individual Fellowships

**Call identifier:** MSCA-IF-2018

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/research/participants/portal/desktop/en/opportunities/h2020/topics/msca-if-2018.html>

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**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:** 12 April 2018

**Deadline:** 12 September 2018 17:00:00



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

**Topic:** Co-funding of regional, national and international programmes

**Call identifier:** MSCA-COFUND-2018

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/research/participants/portal/desktop/en/opportunities/h2020/topics/msca-cofund-2018.html>

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

**Opening date:** 12 April 2018

**Deadline:** 27 September 2018 17:00:00



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#### BIO-BASED INDUSTRIES JOINT UNDERTAKING (BBI JU) CALL FOR PROPOSALS 2018

**Topics:** Strategic Orientation 1 - Foster supply of sustainable biomass feedstock to feed both existing and new value chains: BBI 2018. SO1.D1 – Improve the logistical and pre-processing steps of locally sourced biomass to serve as feedstock for the bio-based industry; BBI 2018. SO1.R1 – Resolve logistical, infrastructural and technological challenges to valorise residual and side streams from aquaculture, fisheries and the aquatic biomass; BBI 2018. SO1.D2 – Find solutions to dilution, pollution and content diversity challenges to turn mixed urban bio-waste into sustainable feedstock for the bio-based industry. Strategic Orientation 2 - Optimise efficient processing for integrated biorefineries through R&D&I: BBI 2018. SO2.R2 – Develop techniques and systems to improve the performance of biocatalysts; BBI 2018. SO2.R3 – Introduce new technologies to make pulping operations more resource-efficient; BBI 2018 SO2.R4 – Apply advanced biotechnologies to convert biomass that contains inhibitors into high value-added chemicals and materials; BBI 2018 SO2.R5 – Develop innovative single-step processes for conversion of a biomass feedstock into multiple readily

*Horizon 2020 - Industrial Leadership*

**Types of action:** Research and innovation actions, Innovations actions – demonstration actions, Innovation actions – flagship actions, Coordination and support actions

**Opening date:** 11 April 2018

**Deadline:** 06 September 2018 17:00:00

usable intermediate streams; BBI 2018 SO2.R6 – Apply emerging breakthrough technologies to improve existing value chains; BBI 2018 SO2.R7 – Electrochemical processes for bio-based monomers and polymers; BBI 2018. SO2.D3 – Valorise sugars from the cellulosic and/or hemicellulosic fractions of lignocellulosic biomass; BBI 2018. SO2.R8 – Develop adequate computational systems for modelling the design, start-up, scaling-up and continuous improvement of bioprocesses involving microorganisms. Strategic Orientation 3 - Develop innovative bio-based products for identified market applications; BBI 2018. SO3.R9 – Develop functional molecules for bio-based coatings outperforming existing products and meeting market requirements; BBI 2018. SO3.R10 – Develop bio-based packaging products that are biodegradable/compostable and/or recyclable; BBI 2018. SO3.R11 – Develop technologies and systems to produce bio-based aromatics that outperform fossil-based counterparts; BBI 2018. SO3.D4 – Produce biopesticides or bio-based fertilisers as components of sustainable agricultural management plans; BBI 2018. SO3.F1 – Produce on a large scale competitive bio-based building blocks, polymers and materials that outperform existing alternatives in identified market applications; BBI 2018. SO3.D5 – Produce sustainable and cost-efficient high-performance functional ingredients from alternative sources; BBI 2018. SO3.F2 – Large-scale production of proteins for food and feed applications from alternative, sustainable sources. Strategic Orientation 4 - Create and accelerate the market-uptake of biobasedn products and applications; BBI 2018. SO4.S1 – Benefit from previous and current work to create a coherent and stimulating ‘environment’ for a sustainable bio-based industry in Europe; BBI 2018. SO4.S2 – Expand the bio-based industry across Europe; BBI 2018. SO4.S3 – Identify opportunities to promote careers, education and research activities in the European bio-based industry.

**Call identifier:** H2020-BBI-JTI-2018

The overall objective of the BBU JU is to implement a programme of research and innovation activities in Europe that will assess the availability of renewable biological resources that can be used for the production of bio-based materials, and on that basis, support the establishment of sustainable bio-based value chains. Those activities should be carried out through collaboration between stakeholders along the entire bio-based value chains, including primary production and processing industries, consumer brands, SMEs, research and technology centres and universities. The four strategic orientations are: 1. foster the supply of sustainable biomass feedstock to feed both existing and new value chains; 2. optimise efficient processing for integrated biorefineries through research, development and innovation; 3. develop innovative bio-based products for identified market applications; 4. create and accelerate the market-uptake of bio-based products and applications.

**Read more on:**

<https://www.bbi-europe.eu/participate/call-proposals-2018>

## INFORMATION AND COMMUNICATION TECHNOLOGIES

**Topic:** Photonics Manufacturing Pilot Lines for Photonic Components and Devices

**Call identifier:** ICT-03-2019

The challenge is to help European companies become more competitive by improving their business/production processes as well as products and services by means of photonics technology. Actions must address one or more of the following technologies: a) 2018 call: Indium Phosphide, Silicon Photonics; b) 2019 call: Next generation free-form optics, Advanced optical medical device technologies for medical diagnostics.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/ict-03-2018-2019.html>

Horizon 2020 - Industrial Leadership

**Types of action:**

IA Innovation action

**Opening date:** 16 October 2018

**Deadline:** 28 March 2019 17:00:00



## DIGITISING AND TRANSFORMING EUROPEAN INDUSTRY AND SERVICES: DIGITAL INNOVATION HUBS AND PLATFORMS

**Topic:** Agricultural digital integration platforms

**Call identifier:** DT-ICT-08-2019

Agricultural research and innovation supports the sector in coping with a complex mix of challenges it is facing, including for example the pressures on natural resources and farm revenues. Knowledge creation and accessible information systems and tools to monitor, gather, transform and above all share vital information between key stakeholders can help the sector to become more sustainable. Pilots should address all of the below aspects: Building platforms integrating different technologies and robotics combined with applications based on data analytics and knowledge management, Sharing data and generating knowledge via capturing and translating more and precise information, Developing decision support systems that will include a benchmarking system on the productivity and sustainability performance of farms, services, technologies and practices.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/dt-ict-08-2019.html>

Horizon 2020 - Industrial Leadership

**Types of action:**

IA Innovation action

**Opening date:** 26 July 2018

**Deadline:** 14 November 2018 17:00:00



## DIGITISING AND TRANSFORMING EUROPEAN INDUSTRY AND SERVICES: DIGITAL INNOVATION HUBS AND PLATFORMS

**Topic:** Interoperable and smart homes and grids

**Call identifier:** DT-ICT-10-2018-19

Horizon 2020 - Industrial Leadership

**Types of action:**

IA Innovation action

The aim of the pilot is to combine services for home or building comfort and energy management, based on platforms that enable the integration of relevant digital technologies like IoT, AI, cloud and big data services and where applicable, combined with blockchain technologies. Energy services, where appropriate, can be combined with additional non-energy services and foster the take-up of smart energy communities. The aim is also to demonstrate platforms through a large-scale pilot for experimentation and co-creation with users under real-life conditions in interaction with the electricity and wider energy system, and to demonstrate the benefits of energy management through IoT application and services for the users.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/dt-ict-10-2018-19.html>

**Opening date:** 26 July 2018

**Deadline:** 14 November 2018  
17:00:00



## FAST TRACK TO INNOVATION (FTI)

**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/research/participants/portal/desktop/en/opportunities/h2020/topics/eic-fti-2018-2020.html>

Horizon 2020 - Industrial Leadership

**Types of action:**

IA Innovation action

**Opening date:** 07 November 2017

**Deadline:**

- 23 October 2018 17:00:00
- 21 February 2019 17:00:00
- 23 May 2019 17:00:00
- 22 October 2019 17:00:00
- 19 February 2020 17:00:00
- 09 June 2020 17:00:00
- 27 October 2020 17:00:00



## EIC HORIZON PRIZE FOR 'AFFORDABLE HIGH-TECH FOR HUMANITARIAN AID'

**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



## INDUCEMENT PRIZE: ZERO POWER WATER INFRASTRUCTURE MONITORING

**Topic:** Inducement prize: Zero Power Water Infrastructure Monitoring

**Call identifier:** PowerWaterPrize-01-2017

The objectives of this inducement prize are: to empower the EU water distribution market with solutions based on wireless sensor networks with energy harvesting technologies, designed for real-time monitoring of water management; and, to stimulate broader European efforts in developing solutions for this societal need. Prizes will be awarded to working prototypes for wireless sensor networks based on energy harvesting technologies, designed to efficiently acquire, monitor, communicate and analyse information about water resources in natural or man-made environments.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/powerwaterprize-01-2017.html>

Horizon 2020 - Industrial Leadership

**Types of action:**

IPr Inducement Prize

**Opening date:** 19 December 2017

**Deadline:** 11 September 2018  
17:00:00



## H2020-JTI-IMI2-2018-15-TWO-STAGE

**Topics:** 1: INTEGRATED RESEARCH PLATFORMS ENABLING PATIENT-CENTRIC DRUG DEVELOPMENT; 2: BLOCKCHAIN ENABLED HEALTHCARE; 3: MICROENVIRONMENT IMPOSED SIGNATURES IN TISSUE AND LIQUID BIOPSIES IN IMMUNE-MEDIATED DISEASES; 4: EMERGING TRANSLATIONAL SAFETY TECHNOLOGIES AND TOOLS FOR INTERROGATING HUMAN IMMUNO-BIOLOGY; 5: DEVELOPMENT AND VALIDATION OF TRANSLATIONAL PLATFORMS IN SUPPORT OF SYNAPTOPATHY DRUG DISCOVERY; 6: DIGITAL ENDPOINTS IN NEURODEGENERATIVE AND IMMUNE-MEDIATED DISEASES INTRODUCTION TO THE IMI2 ANTIMICROBIAL RESISTANCE (AMR)

Horizon 2020 - Societal Challenges

**Types of action:** IMI2-RIA  
Research and Innovation action

**Opening date:** 18 July 2018

**Deadline:**

- 24 October 2018 17:00:00 (first stage)
- 15 May 2019 17:00:00

ACCELERATOR PROGRAMME; 7: AMR ACCELERATOR PROGRAMME PILLAR A: CAPABILITY BUILDING NETWORK TO ACCELERATE AND VALIDATE SCIENTIFIC DISCOVERIES; 8: AMR ACCELERATOR PROGRAMME PILLAR B: TUBERCULOSIS DRUG DEVELOPMENT NETWORK TO ACCELERATE AND VALIDATE SCIENTIFIC DISCOVERIES AND ADVANCE THE R&D PIPELINE OF NEW AND INNOVATIVE AGENTS TO ADDRESS THE GLOBAL TUBERCULOSIS EPIDEMIC  
**Call identifier:** H2020-JTI-IMI2-2018-15-TWO-STAGE

(second stage)



The Innovative Medicines Initiative 2 Joint Undertaking (IMI2 JU) has been created following the following principles: Research related to the future of medicine should be undertaken in areas where societal, public health and biomedical industry competitiveness goals are aligned and require the pooling of resources and greater collaboration between the public and private sectors, with the involvement of Small- and Medium-sized Enterprises (SMEs). The scope of the initiative should be expanded to all areas of life science research and innovation.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-jti-imi2-2018-15-two-stage.html#c.topics=callIdentifier/t/H2020-JTI-IMI2-2018-15-two-stage/1/1/1/default-group&callStatus/t/Forthcoming/1/1/0/default-group&callStatus/t/Open/1/1/0/default-group&callStatus/t/Closed/1/1/0/default-group&+identifier/desc>

## ➔ H2020-JTI-IMI2-2018-16-SINGLE-STAGE

**Topics:** 1: Progress new assets (one pre-new molecular entity (preNME) and one first-time-in-human (FTIH) start) for tuberculosis (TB) that act synergistically with bedaquiline, cytochrome bc or cytochrome bd inhibitors; 2: Progress novel assets (one FTIH start) for non-tubercular mycobacteria (NTM) that may act synergistically with bedaquiline and cytochrome bc drugs; 3: Discover and progress novel assets with new mechanisms of action (one preNME for TB and one preNME for NTM) and biomarkers for TB and NTM infection; 4: Determination of gepotidacin levels in tonsils and prostatic tissue; 5: Infection site targeting, antibiotic encapsulated in nanoparticles for treating extracellular bacterial infections; 6: Functional Ethionamide boosters: a novel combination for tuberculosis therapy; 7: Intravenous treatments of serious infections (urinary tract infections (UTI), intra-abdominal infections (IAI) & hospital-acquired pneumonia/ventilator associated pneumonia (HAP/VAP)) caused by Gram(-) bacteria (Enterobacteriaceae +/- Pseudomonas and/or Acinetobacter)

**Call identifier:** H2020-JTI-IMI2-2018-16-SINGLE-STAGE

The Innovative Medicines Initiative 2 Joint Undertaking (IMI2 JU) has been created following the following principles: Research related to the future of medicine should be undertaken in areas where societal, public health and biomedical industry competitiveness goals are aligned and require the pooling of resources and greater collaboration between the public and private sectors, with the involvement of Small- and Medium-sized Enterprises (SMEs). The scope of the initiative should be expanded to all areas of life science research and innovation.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-jti-imi2-2018-16-single-stage.html#c.topics=callIdentifier/t/H2020-JTI-IMI2-2018-16-single-stage/1/1/1/default-group&callStatus/t/Forthcoming/1/1/0/default-group&callStatus/t/Open/1/1/0/default-group&callStatus/t/Closed/1/1/0/default-group&+identifier/desc>

Horizon 2020 - Societal Challenges

**Types of action:** IMI2-RIA Research and Innovation action

**Opening date:** 18 July 2018

**Deadline:** 24 October 2018 17:00:00



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

**Topics:** LC-SC3-EE-1-2018-2019-2020: Decarbonisation of the EU building stock: innovative approaches and affordable solutions changing the market for buildings renovation; LC-SC3-EE-10-2018-2019-2020: Mainstreaming energy efficiency finance; LC-SC3-EE-11-2018-2019-2020: Aggregation - Project Development Assistance; LC-SC3-EE-13-2018-2019-2020: Enabling next-generation of smart energy services valorising energy efficiency and flexibility at demand-side as energy resource; LC-SC3-EE-14-2018-2019-2020: Socio-economic research conceptualising and modelling energy efficiency and energy demand; LC-SC3-EE-15-2018: New energy label driving and boosting innovation in products energy efficiency; LC-SC3-EE-16-2018-2019-2020: Supporting public authorities to implement the Energy Union; LC-SC3-EE-2-2018-2019: Integrated home renovation services; LC-SC3-EE-5-2018-2019-2020: Next-generation of Energy Performance Assessment and Certification; LC-SC3-EE-6-2018-2019-2020: Business case for industrial waste heat/cold recovery; LC-SC3-EE-8-2018-2019: Capacity building programmes to support implementation of energy audits; LC-SC3-EE-9-2018-2019: Innovative financing for energy efficiency investments.

**Call identifier:** H2020-LC-SC3-2018-2019-2020

An ambitious approach to energy efficiency is needed across all the sectors, but the major challenge of the next decade lies in buildings. This call supports both technology and business development and test it in real market & regulatory conditions to pave the way towards the uptake of innovative energy services enabled by energy decarbonisation, decentralisation and digitalisation

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-lc-sc3-2018-2019-2020.html#c.topics=callIdentifier/t/H2020-LC-SC3-2018-2019-2020>

Horizon 2020 - Societal Challenges

**Types of action:** RIA Research and Innovation action, IA Innovation action, CSA Coordination & support action

**Opening date:** 25 January 2018

**Deadline:** 04 September 2018 17:00:00



[2020/1/1/1/default-group&callStatus/t/Forthcoming/1/1/0/default-group&callStatus/t/Open/1/1/0/default-group&callStatus/t/Closed/1/1/0/default-group&+identifier/desc](https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-lc-sc3-2018-2019-2020.html#callIdentifier/t/H2020-LC-SC3-2018-2019-2020)

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

**Topics:** LC-SC3-NZE-1-2018: Advanced CO2 capture technologies; CE-SC3-NZE-2-2018: Conversion of captured CO2; LC-SC3-NZE-3-2018: Strategic planning for CCUS development  
**Call identifier:** H2020-LC-SC3-2018-2019-2020

Within the priority "Enabling near-zero CO2 emissions from fossil fuel power plants and carbon intensive industries", Carbon Capture Utilization and Storage is one of the key promising technologies that can reduce CO2 emissions in the power and the only pathway for very stringent GHG emission reductions from energy and/or carbon intensive industries that generate CO2 as part of their production processes. New solutions for the conversion of captured CO2 (CCU) to useful products such as fuels or chemicals will create new markets for innovative industrial sectors.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-lc-sc3-2018-2019-2020.html#callIdentifier/t/H2020-LC-SC3-2018-2019-2020/1/1/1/default-group&callStatus/t/Forthcoming/1/1/0/default-group&callStatus/t/Open/1/1/0/default-group&callStatus/t/Closed/1/1/0/default-group&+identifier/desc>

Horizon 2020 - Societal Challenges

**Types of action:** RIA Research and Innovation action, CSA Coordination and support action  
**Opening date:** 15 May 2018  
**Deadline:** 06 September 2018 17:00:00



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

**Topics:** Social Sciences and Humanities (SSH) aspects of the Clean-Energy Transition  
**Call identifier:** LC-SC3-CC-1-2018-2019-2020

The energy transition has given rise to various forms of social innovation, such as the emergence of energy cooperatives or that of energy "prosumers" consuming but also producing energy. Urban areas have emerged as major hubs for these trends, given the close proximity between citizens, businesses and institutions, facilitating linkages between sectors and the emergence of new business and service models, as well as associated governance arrangements. These issues need to be studied in more detail, with a particular focus on the following questions: What characterizes successful examples of social innovation in the energy sector? What enabling conditions facilitate social innovation in the energy sector and how can it be encouraged? What factors work against it? In what way does social innovation contribute to the preservation of livelihoods and the development of new business and service models in the energy sector? In what way does social innovation contribute to making energy more secure, sustainable and affordable? Does social innovation lead to greater competitiveness and if so, how? Under what conditions does social innovation lead to greater acceptance of the transition towards a low-carbon energy system?

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/lc-sc3-cc-1-2018-2019-2020.html>

Horizon 2020 - Societal Challenges

**Types of action:** RIA Research and Innovation action  
**Opening date:** 15 May 2018  
**Deadline:** 06 September 2018 17:00:00



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

**Topics:** Modelling in support to the transition to a Low-Carbon Energy System in Europe  
**Call identifier:** LC-SC3-CC-2-2018

Proposals must target the development of a suite of modelling tools and scenario building exercises that will contribute to: 1) A better representation of recent and future aspects of the European energy system in transition. For power generation, it includes aspects such as decentralisation, variability, the need for flexibility, and real market functioning. For demand, it includes the behaviour of individuals and communities of actors. 2) Greater transparency and access to assumptions, data, model outputs and to tools used in modelling exercises. A collaborative environment for research on modelling, scenario and pathways development including ex-post validation and inter-comparison exercises should be proposed. 3) A better representation of the investment determinants, barriers (energy market and regulatory failures) and impacts of actors: individuals, communities, private and public actors and cover the deployment of innovative technologies.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/lc-sc3-cc-2-2018.html>

Horizon 2020 - Societal Challenges

**Types of action:** RIA Research and Innovation action  
**Opening date:** 15 May 2018  
**Deadline:** 06 September 2018 17:00:00



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

**Topics:** Research, innovation and educational capacities for energy transition  
**Call identifier:** LC-SC3-CC-5-2018

Proposals will cover one or more of the following fields: Renewable energy, Energy storage, Smart and flexible energy systems, Carbon capture, utilisation and storage (CCUS). Proposals will combine the relevant scientific and technological elements of these fields with

Horizon 2020 - Societal Challenges

**Types of action:** CSA Coordination and support action  
**Opening date:** 15 May 2018  
**Deadline:** 06 September 2018 17:00:00

relevant social sciences and humanities in a way that is balanced and provides an interdisciplinary approach. The funded proposals are expected to lead to a generation of researchers and engineers who are equipped to develop, improve and deploy new energy technologies, thereby contributing to meeting the challenges of the energy transition.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/c-sc3-cc-5-2018.html>



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

**Topics:** Transition in coal intensive regions

**Call identifier:** LC-SC3-CC-6-2018

The objective is to support European coal-intensive regions to design research and innovation strategies to facilitate their transition towards a sustainable energy system. The proposed action will assist policy makers to develop, implement and review their strategies by providing information, developing methodologies, expertise and advice. Specific issues to be addressed include: Assist regional actors in developing Research and Innovation strategies for smart specialisation; Investigate relevant social challenges including the re-skilling needs of the workforce; Identification and exchange of best practices; Guidance to regional actors for the access to available European funds and programmes.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/c-sc3-cc-6-2018.html>

Horizon 2020 - Societal Challenges

**Types of action:** CSA

Coordination and support action

**Opening date:** 15 May 2018

**Deadline:** 06 September 2018 17:00:00



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

**Topics:** LC-SC3-JA-1-2018: Joint programming actions to foster innovative energy solutions; LC-SC3-JA-2-2018: Support to the realisation of the Implementation Plans of the SET Plan

**Call identifier:** H2020-LC-SC3-2018-2019-2020

This section provides support for joint actions and public partnerships between European, national and regional funding agencies and procurers through the use of several Horizon 2020 instruments. The objective of topics included in this area is to facilitate the creation or continuation of energy R&I public partnerships between the European Commission and/or countries and regions in Europe and beyond. These public partnerships will have as a goal to contribute to the objectives and ambitions of the Energy Union and the Strategic Energy Technology (SET) Plan, and to continue developing a European Research Area in energy.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-lc-sc3-2018-2019-2020.html#c.topics=callIdentifier/t/H2020-LC-SC3-2018-2019-2020/1/1/1/default-group&callStatus/t/Forthcoming/1/1/0/default-group&callStatus/t/Open/1/1/0/default-group&callStatus/t/Closed/1/1/0/default-group&+identifier/desc>

Horizon 2020 - Societal Challenges

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

CSA Coordination and support action

**Opening date:** 15 May 2018

**Deadline:** 11 September 2018 17:00:00



#### BETTER HEALTH AND CARE, ECONOMIC GROWTH AND SUSTAINABLE HEALTH SYSTEMS

**Topics:** SC1-BHC-01-2019: Understanding causative mechanisms in co- and multimorbidities; SC1-BHC-02-2019: Systems approaches for the discovery of combinatorial therapies for complex disorders

**Call identifier:** H2020-SC1-BHC-2018-2020

The priority "Personalised medicine" will aim at delivering personalised health and care solutions to benefit citizens. It will generate and translate knowledge on disease aetiology and technological innovation into personalised health and care solutions. Areas of application include chronic, rare and communicable diseases. The expected key impact of this priority is improved health outcomes for the citizens. Additional impacts are to: (i) establish Europe as a global leader in personalised medicine research; (ii) support the personalised medicine science base through a coordinated approach to research; (iii) provide evidence to policy makers of the benefit of personalised medicine to citizens and healthcare systems.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-sc1-bhc-2018-2020.html#c.topics=callIdentifier/t/H2020-SC1-BHC-2018-2020/1/1/1/default-group&callStatus/t/Forthcoming/1/1/0/default-group&callStatus/t/Open/1/1/0/default-group&callStatus/t/Closed/1/1/0/default-group&+identifier/desc>

Horizon 2020 - Societal Challenges

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

**Opening date:** 26 July 2018

**Deadline:**

- 02 October 2018 17:00:00 (first stage)
- 16 April 2019 17:00:00 (second stage)



#### BETTER HEALTH AND CARE, ECONOMIC GROWTH AND SUSTAINABLE HEALTH SYSTEMS

**Topic:** Implementation research for maternal and child health

**Call identifier:** SC1-BHC-19-2019

Proposals should focus on implementation research for improving maternal and child health with a focus on the first '1000 days' from pregnancy until two years of age. This research can take place in either high income countries or low and middle income countries, or in a combination thereof. The implementation research in the first 1000 days may cover: new or

Horizon 2020 - Societal Challenges

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

**Opening date:** 26 July 2018

**Deadline:**

- 02 October 2018 17:00:00 (first stage)
- 16 April 2019 17:00:00

improved health service delivery interventions that strengthen maternal and child health; and/or the scaling up and/or adapting of existing evidence-based interventions to new contexts.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/c1-bhc-19-2019.html>

(second stage)



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#### BETTER HEALTH AND CARE, ECONOMIC GROWTH AND SUSTAINABLE HEALTH SYSTEMS

**Topics:** SC1-BHC-22-2019: Mental health in the workplace; SC1-BHC-25-2019: Demonstration pilots for implementation of personalised medicine in healthcare

**Call identifier:** H2020-SC1-BHC-2018-2020

The priority "Innovative health and care systems - Integration of care" will aim at developing effective, accessible and sustainable health interventions and integrated care systems. This aim is particularly relevant in the context of personalised medicine, management of chronic diseases and health promotion. It includes the further development of health technology assessment methods, and the evaluation of community- and population-based intervention strategies, both retrospectively and prospectively.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-sc1-bhc-2018-2020.html#c.topics=callIdentifier/t/H2020-SC1-BHC-2018-2020/1/1/1/default-group&callStatus/t/Forthcoming/1/1/0/default-group&callStatus/t/Open/1/1/0/default-group&callStatus/t/Closed/1/1/0/default-group&+identifier/desc>

Horizon 2020 - Societal Challenges

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

**Opening date:** 26 July 2018

**Deadline:**

- 02 October 2018 17:00:00 (first stage)
- 16 April 2019 17:00:00 (second stage)



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#### BETTER HEALTH AND CARE, ECONOMIC GROWTH AND SUSTAINABLE HEALTH SYSTEMS

**Topics:** SC1-BHC-07-2019: Regenerative medicine: from new insights to new applications; SC1-BHC-10-2019: Innovation Procurement: Next generation sequencing (NGS) for routine diagnosis.

**Call identifier:** H2020-SC1-BHC-2018-2020

The priority "Innovative health and care industry" will focus on turning innovative knowledge and technologies into practical applications benefiting citizens, healthcare systems and businesses. Areas of research will include innovative diagnostics and therapeutics, including advanced therapies.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-sc1-bhc-2018-2020.html#c.topics=callIdentifier/t/H2020-SC1-BHC-2018-2020/1/1/1/default-group&callStatus/t/Forthcoming/1/1/0/default-group&callStatus/t/Open/1/1/0/default-group&callStatus/t/Closed/1/1/0/default-group&+identifier/desc>

Horizon 2020 - Societal Challenges

**Types of action:** RIA Research and Innovation action; PCP Pre-Commercial Procurement

**Opening date:** 26 July 2018

**Deadline:**

16 April 2019 17:00:00



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#### BETTER HEALTH AND CARE, ECONOMIC GROWTH AND SUSTAINABLE HEALTH SYSTEMS

**Topic:** Mining big data for early detection of infectious disease threats driven by climate change and other factors

**Call identifier:** SC1-BHC-13-2019

A range of factors is responsible for the (re-)emergence of infectious disease threats, including antimicrobial resistance, altering the epidemiology and spread of disease in a changing global environment. These include drivers such as climate change and associated environmental impacts, population growth, unplanned urbanisation and high mobility, as well as animal husbandry or intensive farming practices. It is expected that proposals develop: the technology to allow the pooling, access, analysis and sharing of relevant data, including next generation sequencing; the innovative bio-informatics and modelling methodologies that enable risk modelling and mapping; and the analytical tools for early warning, risk assessment and monitoring of (re-)emerging infectious disease threats.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/c1-bhc-13-2019.html>

Horizon 2020 - Societal Challenges

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

**Opening date:** 26 July 2018

**Deadline:**

16 April 2019 17:00:00



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#### BETTER HEALTH AND CARE, ECONOMIC GROWTH AND SUSTAINABLE HEALTH SYSTEMS

**Topic:** The Human Exposome Project: a toolbox for assessing and addressing the impact of environment on health

**Call identifier:** SC1-BHC-28-2019

Proposals should use innovative approaches to the systematic and agnostic identification of the most important environmental risk factors for the development of major non-communicable diseases (NCDs) across the life course (including in utero), leading to preventive interventions at the individual, group or population level and contribute to sustainable healthcare. Well-designed retrospective epidemiological studies may be included and proposals may envisage the creation of a prospective Europe-wide exposomics cohort and biobank, integrating behavioural, socio-economic factors and

Horizon 2020 - Societal Challenges

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

**Opening date:** 26 July 2018

**Deadline:** 16 April 2019 17:00:00





clinical records.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/c1-bhc-28-2019.html>

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## DIGITAL TRANSFORMATION IN HEALTH AND CARE

**Topic:** Digital health and care services

**Call identifier:** SC1-DTH-10-2019-2020

The scope is to support the health and care service provider to procure the development, testing and implementation of digital services and communication concepts, that can facilitate the transition to integrated care models across health and social services and country-specific cross-institutional set-ups, including decentralised procurement environments and collaboration across institutions. Key challenges that could be addressed are patient empowerment, self-management, patient safety, patient involvement, chronic disease management, diagnosing, home-care logistics, hospital logistics, skills and independent living. These challenges could be addressed by applicable ICT domains e.g., telemedicine, mHealth, IoT, shared open source IT-based platforms, etc. as will be defined in the market consultation process. This should result in early adoption and demonstration of the potential for scaling-up the services and positive impact with evidence of appropriate incentives of various actors.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/c1-dth-10-2019-2020.html>

Horizon 2020 - Societal Challenges

**Types of action:** PCP Pre-Commercial Procurement

**Opening date:** 26 July 2018

**Deadline:** 14 November 2018 17:00:00



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## BETTER HEALTH AND CARE, ECONOMIC GROWTH AND SUSTAINABLE HEALTH SYSTEMS

**Topic:** Actions in support of the International Consortium for Personalised Medicine

**Call identifier:** SC1-HCO-01-2018-2019-2020

Each action should focus on one of the following fields: 1) International aspect: The action should focus on building links with third countries by analysing the potential and advantages of collaboration in personalised medicine (PM) with those countries, studying areas of interest for Europe in PM collaboration and promoting international standards in the field. 2) Regional aspect: The action should establish and support networking between regions and interregional cooperation in different European countries, in particular linking remote or sparsely populated regions with regions harbouring critical mass of medical and PM expertise while taking into account broader socio-economic and cultural aspects. 3) Healthcare- and pharma-economic models for personalised medicine, interlinking European public health approaches with medical practice and financing. 4) Standardisation for clinical study design.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/c1-hco-01-2018-2019-2020.html>

Horizon 2020 - Societal Challenges

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

**Opening date:** 26 July 2018

**Deadline:** 16 April 2019 17:00:00



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## TRUSTED DIGITAL SOLUTIONS AND CYBERSECURITY IN HEALTH AND CARE

**Topic:** Smart and healthy living at home

**Call identifier:** DT-TDS-01-2019

Citizens in a rapidly ageing European population are at greater risk of cognitive impairment, frailty and multiple chronic health conditions with considerable negative consequences for their independence, quality of life and for the sustainability of health and care systems. The challenge is to foster large-scale deployment of integrated digital solutions which will bring improved quality of life to citizens while demonstrating significant efficiency gains in health and care delivery across Europe. A mix of advanced ICT ranging from biophotonics to robotics, from artificial intelligence to big data and from IoT to smart wearables can address these challenges.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/dt-tds-01-2019.html>

Horizon 2020 - Societal Challenges

**Types of action:** IA Innovation action

**Opening date:** 26 July 2018

**Deadline:** 14 November 2018 17:00:00



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## EIC HORIZON PRIZE FOR 'FUEL FROM THE SUN: ARTIFICIAL PHOTOSYNTHESIS'

**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

Horizon 2020 - Societal Challenges

**Types of action:** IPr Inducement Prize

**Opening date:** 12 December 2017

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

biomimetic, nanotechnology, synthetic biology or a combination of these systems.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/unfuel-eicprize-2021.html>



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#### HORIZON PRIZE – LOW CARBON ENERGY INDUCEMENT PRIZES 2016 - CO2 REUSE

**Topic:** Horizon prize for CO2 reuse

**Call identifier:** LCE-Prize-CO2Reuse-01-2016

This inducement prize will therefore reward innovative products utilising CO2 that could significantly reduce the atmospheric emissions of CO2 when deployed at commercial scale. The prize winner will be the entrant that has developed a product demonstrating, over the duration of the contest, the most significant and measurable improvements in the mass of CO2 utilised in it while overcoming technical, commercial and/or financial barriers. Efforts shall be replicable and scalable in order that the processes and products can be rolled out in the future. Clear commercialisation plans that are key to assuring medium-term benefits of the activities undertaken towards the prize will also have to be presented.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/lce-prize-co2reuse-01-2016.html>

Horizon 2020 - Societal Challenges

**Types of action:** IPr Inducement Prize

**Opening date:** 05 July 2016

**Deadline:** 03 April 2019 17:00:00



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#### HORIZON PRIZE - CLEANEST ENGINE OF THE FUTURE

**Topic:** FutureEnginePrize-01-2016

**Call identifier:** H2020-FutureEnginePrize-2016

Cleanest engine of the future prize aims at reducing the pollution produced by future new vehicles using either gasoline or diesel fuels and their low biofuel blends available on the market. Submissions shall aim at very significant noxious emissions improvements while at the same time reducing fuel consumption and CO2 emissions and providing sufficient dynamic performance for normal vehicle driving.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/h2020-futureengineprize-2016.html>

Horizon 2020 - Societal Challenges

**Types of action:** IPr Inducement Prize

**Opening date:** 20 April 2016

**Deadline:** 20 August 2019 17:00:00



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#### HORIZON PRIZE FOR SOCIAL INNOVATION IN EUROPE

**Topic:** Horizon Prize for Social Innovation in Europe

**Call identifier:** SC6-Social-Innovation-Prize-2019

The aim of the prize is to improve the mobility of older people by providing innovative mobility solutions allowing them to maintain independence and actively participate in social life. The solutions proposed should represent significant long-term improvements for specific target groups, such as elderly people living in isolated areas, or older persons with reduced mobility in urban areas. Applicants should also explain their solution's impact with respect to the creation of new market opportunities and jobs.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/sc6-social-innovation-prize-2019.html>

Horizon 2020 - Societal Challenges

**Types of action:** IPr Inducement Prize

**Opening date:** 27 November 2017

**Deadline:** 28 February 2019 17:00:00



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#### SCIENCE WITH AND FOR SOCIETY

**Topic:** Exploring and supporting citizen science

**Call identifier:** Swafs-15-2019

There are the two sub-topics: A) CSA Action: This will provide support to citizen science at the European level. It will also create a mutual learning space where citizen science projects/participants can exchange experiences and successful strategies. It will raise awareness of citizen science among the general public and provide co-ordination support between citizen science initiatives; B) RIA Actions: This will support hands-on citizen science activities. Proposals may focus on one particular area of scientific enquiry or tackle several, though transdisciplinary approaches should be favoured.

**Read more on:**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/swafs-15-2018-2019.html>

Horizon 2020 - Science with and for Society

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

**Opening date:** 11 December 2018

**Deadline:** 02 April 2019 17:00:00



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#### ERA-NET SES "INTEGRATED REGIONAL ENERGY SYSTEMS" (REGSYS)

**Topic:** Smart Power Grids; Integrated Regional Energy Systems; Flexible Heating and Cooling Systems; Smart Services

**Call identifier:** REGSYS JOINT CALL 2018

Horizon 2020 - Joint Call for Proposals

**Types of action:** Transnational research, development and innovation (RDI) projects

**Opening date:** 23 May 2018

The overall goal of the ERA-Net SES Focus Initiative on Integrated Regional Energy Systems (RegSys) is to speed up the development and integration of such system solutions by promoting system management innovation. In a new systemic approach, all the elements such as electricity, gas, heating and cooling grids, end-use technologies in buildings and other infrastructure (e.g. water supply and sewage systems, transport system etc.), different kinds of end-users and management of energy conversion shall be combined and integrated in an innovative way. Regions and local communities shall be enabled to realise their high ambitions of moving towards decarbonised energy systems. At the same time they shall be linked to a secure and resilient European energy system. This shall include solutions that allow for a high proportion of renewables up to and beyond 100% in the local or regional supply.

**Read more on:**

[http://www.eranet-smartenergysystems.eu/Calls/Regsys\\_Calls/RegSYS\\_Joint\\_Call\\_2018](http://www.eranet-smartenergysystems.eu/Calls/Regsys_Calls/RegSYS_Joint_Call_2018)

**Deadline:** 11 September 2018  
14:00:00



## ➔ SOLAR-ERA.NET COFUND 2 (SOLAR COFUND 2) JOINT CALL

**Topic:** Emerging PV technologies; Building and infrastructure integrated PV; Operation and diagnosis of PV plants; CSP low cost and next generation technologies

**Call identifier:** SOLAR-ERA.NET

The Call is carried out by national / regional research and technology development (RTD) and innovation programmes and national / regional funding agencies in the field of solar electricity generation, i.e. photovoltaics (PV) and concentrating solar power (CSP) / solar thermal electricity (STE). For Italy, the Funding Organisation is MIUR. All costs incurred during the lifetime of the project under the following categories are eligible: Personnel, Equipment, Consulting and equivalent services, Consumables and Overheads. The Funding Rates for Universities, public research institutions, research organizations (public and private) are 50% for Industrial Research and 25% for Experimental Development.

**Read more on:**

<http://www.solar-era.net/joint-calls/>

*Horizon 2020 - Joint Call for Proposals*

**Types of action:** Industrial Research; Experimental Development

**Opening date:** 04 June 2018

**Deadline:**

- 02 October 2018 16:00:00 (Pre-Proposal)
- 25 February 2019 16:00:00 (Full-Proposal)



## EUROSTARS CALL 2018

**Topic:** All activities classifiable as Industrial research and Experimental development are eligible for funding. Furthermore, Industrial research activities must be predominant with respect to Experimental development activities.

Eurostars is a funding programme supporting innovative projects that will be rapidly commercialised. Eurostars focuses on SMEs, especially R&D performing SMEs. They must be the main project partner. This restriction doesn't apply to the other partners in the consortium which mean that Universities or Research organisations can join a Eurostars project. Eurostars applicants must submit a project that will develop new products, processes or services. Any project should have the market and commercialisation in mind. Consequently the project timeframe is an eligibility rule. The project must be completed in 36 months or fewer and the market introduction (or the start of clinical trials for life sciences projects) is planned to occur within 24 months of the project's completion. Since Eurostars is a competition only the best projects will receive funding.

**Read more on:**

<https://www.eurostars-eureka.eu/content/eurostars-2018-cut-offs>

*Horizon 2020 - Eurostars-2 Programme (2014-2020)*

**Types of action:** Joint programme Eurostars Countries - European Union

**Opening date:** 01 March 2018

**Deadline:** 13 September 2018



## ➔ OPEN CALL FOR PROPOSALS – COLLECTION OC-2018-1

**Topics:** all scientific disciplines

Proposals should reflect the main characteristics of COST Actions, namely providing for knowledge sharing, creation and application, being open and output-oriented while aiming at strengthening the scientific and technological basis of the proposed topics. COST does not fund research itself, but supports networking via different tools such as meetings, short term scientific missions, training schools and dissemination activities.

**Read more on:**

<http://www.cost.eu/participate>

*Horizon 2020 - COST (European Cooperation in Science and Technology)*

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

**Opening date:** 23 April 2018

**Deadline:** 29 November 2018



## ➔ 2ND OPEN CALL FOR RESEARCH PROJECTS

**Topics:** Genotype-to-phenotype analysis; Predictive systems pharmacology for safer drugs and chemical products; Structure-function analysis of large protein complexes; Marine metazoan developmental models; Complex multimodal biomarker profiling

Successful applicants will be offered open access to cutting-edge technologies and services available at research infrastructures working in fields such as biobanking, translational medicine, clinical research, curated databases, systems biology, mouse mutant phenotyping, marine model organisms, advanced imaging technologies, high-throughput screening or structural biology. The access modalities vary between CORBEL

*Horizon 2020 - CORBEL (Coordinated Research Infrastructures Building Enduring Life-science Services)*

**Types of action:** support to advanced research projects

**Deadline:** 31 May 2020

partner institutes. In general, access can be provided on site or virtually, and experiments are either performed by you, the user, or by staff at the facility (or a combination thereof). CORBEL funds will not be given to successful applicants directly. Instead, costs for travel to partner sites will be reimbursed (up to €5,000) and access to service providers will be granted without access fee (extra costs for consumables may apply). CORBEL support will cover: Costs of research infrastructure staff providing the services; Costs for instrumentation; Limited financial support to cover your travel and accommodations costs. CORBEL support will not include: Consumable costs; Experimental costs required (if any) before accessing the services (e.g. mouse cohort generation, assay development, etc.); Salary for your staff. In short: This Open Call is not a source for funding your research at home, but for funding your access to excellent facilities, pioneering technologies and innovative services!



Read more on:

<http://www.corbel-project.eu/open-call.html>



## Environment - European Commission

### LIFE 2018 CALL FOR PROPOSALS FOR TRADITIONAL PROJECTS - SUB-PROGRAMME CLIMATE ACTION

**Topics:** LIFE Climate Change Mitigation; LIFE Climate Change Adaptation; LIFE Climate Governance and Information

LIFE Climate Change Mitigation will co-finance projects that contribute to the reduction of greenhouse gas emissions.

LIFE Climate Change Adaptation will co-finance projects that contribute to supporting efforts leading to increased resilience to climate change; that contribute to the development and implementation of Union policy on climate change adaptation, including mainstreaming across policy areas, in particular by developing, testing and demonstrating policy or management approaches, best practices and solutions for climate change adaptation.

LIFE Climate Governance and Information will co-finance projects that promote awareness raising on climate matters, including generating public and stakeholder support of Union policy-making in the field of the climate

Read more on:

<http://ec.europa.eu/environment/life/funding/life2018/traditional/index.htm>

*LIFE Programme - European Programme for the Environment and Climate Action*

**Types of action:** best-practice, demonstration, pilot or information, awareness and dissemination projects

**Opening date:** 18 April 2018

**Deadline:** 12 September 2018



### LIFE 2018 CALL FOR PROPOSALS FOR INTEGRATED PROJECTS - SUB-PROGRAMME ENVIRONMENT

**Topics:** nature (including Natura 2000 network management), water, waste and air

Proposals should respect the following aspects:

- for Nature: evaluation, assessment and restoration of ecosystems and their services; increase of the contribution of agriculture and forestry to biodiversity; reduction of the impact of fisheries and of other uses of marine and coastal natural resources on biodiversity; monitoring, prevention, eradication and control Invasive Alien Species.

- for Water: afforestation, wetland creation, re-instatement of floodplains, their contribution towards good status of inland waters, carbon sequestration, reduction of nutrient flows to marine waters, reduction to flood risk and support for improvements in terrestrial and aquatic biodiversity.

- for Waste: implementation of Waste Management Plans and/or Waste Prevention Programmes. Where relevant, specific attention should also be given to marine litter.

- for Air: contribution to reaching limit values in regional air quality plans; reduction of noise problems by linking them to or integrating them into a Sustainable Urban Mobility strategy and/or noise plan; encouragement of innovative local and regional energy projects addressing air quality PM hotspots in areas with continued high use of coal and biomass burning heating applications; promotion of innovative and high quality biomass burning applications and their proper use; reduction of energy consumption by being linked to or integrated in the national Energy Efficiency Action Plans; support to the implementation of the UNECE code of Good Practice for reducing emissions from agriculture which should also contribute to minimising the losses of agricultural emissions to water.

Read more on:

<http://ec.europa.eu/environment/life/funding/life2018/integrated/index.htm>

*LIFE Programme - European Programme for the Environment and Climate Action*

**Types of action:** projects implementing on a large territorial scale

**Opening date:** 18 April 2018

**Deadline:**

- 05 September 2018 (submission of concept notes)
- 14 March 2019 (submission of full proposal)



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**LIFE 2018 CALL FOR PROPOSALS FOR INTEGRATED PROJECTS - SUB-PROGRAMME CLIMATE ACTION**

**Topics:** Climate change adaptation; Urban climate change mitigation and/or adaptation; Climate change mitigation

Proposals should respect the following aspects:

- for climate change adaptation strategies or action plans: their contribution to the objectives of the EU Adaptation Strategy, including ecosystem-based approaches to adaptation as well as support for improvements in biodiversity and nature conservation. Moreover, contributions to climate change mitigation and improved governance and capacity building in climate change as well as mainstreaming adaptation objectives across different sectors are relevant.
- for urban action plans: implementing the transition to a low carbon and/or climate resilient society. Moreover, contributions to improved governance, awareness raising and capacity building as well as mainstreaming climate change action across different policy areas are relevant.
- for Climate change mitigation: the implementation of greenhouse gas mitigation strategies, action plans or low carbon economy roadmaps, development of Union policy and legislation on climate change mitigation. Moreover, contributions to climate change adaptation, improved governance and capacity building in climate change as well as mainstreaming mitigation objectives across different policy areas are relevant.

**Read more on:**

<http://ec.europa.eu/environment/life/funding/life2018/integrated/index.htm>

*LIFE Programme - European Programme for the Environment and Climate Action*

**Types of action:** projects implementing on a large territorial scale

**Opening date:** 18 April 2018

**Deadline:**

- 05 September 2018 (submission of concept notes)
- 14 March 2019 (submission of full proposal)



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**LIFE 2018 CALLS FOR PROPOSALS FOR PREPARATORY PROJECTS - SUB-PROGRAMMES FOR ENVIRONMENT**

**Topics:** 1) Grazing for wildfire prevention, ecosystem service provision, nature conservation and landscape management; 2) Support for Air Quality Plans under Directive 2008/50/EC; 3) Better 'support to the transition to circular economy' in networks engaging innovation, regional and environmental agencies, philanthropy and financial market actors; 4) Providing support for Biodiversity Action in the EU's Outermost Regions (BEST); 5) Capacity building for SME support organizations helping them to boost their services to SMEs on circular economy, resource efficiency and eco-innovation.

The proposed project should focus on:

- for Topic 1: the potential of grazing, both by domestic and wild/semi-wild herbivores, to help prevent wildfires, optimise the provision of multiple ecosystem services, support landscape and nature conservation, and contribute to climate change adaptation by maintaining long-term stable and resilient ecosystems.
- for Topic 2: background information, practical guidelines and support tools related to urban ecosystems and vegetation as sinks and sources of air pollution for the competent authorities and others responsible for developing and implementing Air Quality Plans and Operational Programmes under the European Structural and Investment Funds (ESIF).
- for Topic 3: New business models in the circular economy have benefits for the environment and for competitiveness and they provide opportunities to address social challenges.
- for Topic 4: unlock the local potential for biodiversity action in the EU's Outermost Regions located in the Caribbean, Indian Ocean, Amazon and Macronesian Regions, which constitute biodiversity hotspots of global importance. The specific objective is to empower and strengthen local authorities and civil society organisations in ORs which are committed in local development and biodiversity conservation and sustainable use of ecosystem services, including ecosystem-based adaptation and mitigation.
- for Topic 5: capacity building for selected SME support organisations in EU Member States such as industry associations, chambers of commerce, innovation agencies, etc. The capacity building will include training, guidance, advice, skills development, tools, and network creation in the field of circular economy, resource efficiency and eco-innovation.

**Read more on:**

<http://ec.europa.eu/environment/life/funding/life2018/preparatory/index.htm>

*LIFE Programme - European Programme for the Environment and Climate Action*

**Types of action:** development and implementation of Union environmental policy and legislation.

**Opening date:** 18 April 2018

**Deadline:** 20 September 2018 16:00:00





# Ministry of Foreign Affairs and International Cooperation- MAECI

## ➔ 12TH EXECUTIVE PROGRAMME OF SCIENTIFIC AND TECHNOLOGICAL COOPERATION FOR THE YEARS 2019 - 2021

*Scientific and Technological Cooperation Agreement between the Government of the Republic of Italy and the Government of the Republic of Korea*

**Topics:** 1. Biomedicine [1. Ageing (Neuroscience and Neuro-rehabilitation); 2. Pharmacology; novel drugs] 2. Agri-Food and Biotechnology 3. ICT, including Robotics and Automotive 4. Nanosciences and Advanced Materials 5. Energy and environment 6. Marine science 7. Convergence science (S&T applied to Cultural heritage) 8. Basic Sciences

**Types of action:** Joint research proposals

**Deadline:** 11 September 12:00:00

Proposals should include scientific and technological activities exhibiting strong bilateral cooperation, either by strengthening the existing, or by creating new collaborations or joint laboratories, aimed at concrete industrial impacts or targeting relevant scientific objectives. The call is open to public or private research institutions. The Italian Party may consider granting an annual special funding contribution, within the limits of the available financial resources, to significant bilateral research projects (Progetti di Grande Rilevanza).



**Read more on:**

[https://www.esteri.it/mae/it/politica\\_estera/cooperscientificatecnologica/avvisiincaricobandi.html?id=1793](https://www.esteri.it/mae/it/politica_estera/cooperscientificatecnologica/avvisiincaricobandi.html?id=1793)

## ➔ SEVENTEENTH CALL FOR PROPOSALS FOR JOINT R&D PROJECTS – 2019 (“INDUSTRIAL TRACK”)

*Israel-Italy Joint Innovation Program for Industrial, Scientific and Technological Cooperation in R&D*

**Topics:** medicine, biotechnology, public health and hospital organization; agriculture and food science; application of information technology to education and scientific research; environment, water treatment; new energy sources, oil alternatives and exploitation of natural resources; innovation in production processes; information technology, data communications, software, cyber security; space and earth observation; any other area of mutual interest.

**Types of action:** Joint Italian-Israeli R&D projects

**Deadline:** 22 October 2018 17:00:00

The Italian partner can be an industrial entity (company) or a non-industrial entity (university, research center, etc.). The applying non industrial entity must be associated with an industrial entity, whether or not it runs R&D activities, for the realization of the project. Each project that is selected can be financed up to 50% of the documented and eligible costs of research and development. The criteria of evaluation are as follows: 1. Novelty of the proposal and possible impact on the industrial activities in terms of technological innovation; 2. Qualifications of the applicants in performing the specific tasks, and added value of the cooperation between project partners; 3. Expected economic results from the accomplishment of the project; 4. Relevance of the proposal to the main strategic objectives in industrial R&D of the respective Italian and Israeli Governments; 5. Congruity of cost estimates for the support with the proposed project and with the expected results; 6. Capability and resources of the partners (R&D personnel, infrastructure, finance, marketing, etc.).



**Read more on:**

[https://www.esteri.it/mae/it/politica\\_estera/cooperscientificatecnologica/avvisiincaricobandi.html?id=1780](https://www.esteri.it/mae/it/politica_estera/cooperscientificatecnologica/avvisiincaricobandi.html?id=1780)

➔ **OCSE-CRP BANDO 2018 - BORSE DI STUDIO PER SOGGIORNI ALL'ESTERO E CONTRIBUTI PER CONVEGNI INTERNAZIONALI NELL'AMBITO DELLA RICERCA SULLA GESTIONE DELLE RISORSE BIOLOGICHE PER UNO SVILUPPO SOSTENIBILE DEI SISTEMI AGRICOLI**

**Topics:** 1) Managing Natural Capital for the Future; 2) Managing Risks in a Connected World; 3) Transformational Technologies and Innovation. A titolo d'esempio, alcune tematiche d'interesse per il programma:

- productivity, sustainability and resilience of agricultural productions or food systems;
- application of new genetic technologies, big data, AI, block chain and the digital economy in agriculture, fisheries, forestry and food systems, including policy instruments to encourage their take up;
- future of livestock and meat production, sustainability of fisheries and aquaculture, including their economic and social dimensions;
- changing biodiversity and ecosystem services supporting the productivity of agricultural ecosystems;
- impacts of invasive species and climate change on global food production and trade.

Il Programma intende rafforzare la cooperazione internazionale tra ricercatori ed istituzioni di ricerca dei 24 Paesi aderenti attraverso l'offerta di borse a ricercatori per soggiorni in laboratori esteri della durata di 6-26 settimane e contributi per l'organizzazione di convegni internazionali (workshops, congresses, symposia) nell'ambito delle aree tematiche in cui è articolato il programma. Possono partecipare i ricercatori attivi nei settori d'interesse del programma ed interessati nel 2019 a visitare un laboratorio in un altro paese per stabilire nuovi collegamenti collaborativi, espandere la propria ricerca attraverso un breve soggiorno in un paese straniero, avviare una rete di ricerca internazionale oppure ad organizzare una conferenza o un seminario internazionale.

**Read more on:**

<https://www.politicheagricole.it/flex/cm/pages/ServeBLOB.php/L/IT/IDPagina/12582>

*Co-operative Research Program (CRP) 2016-2020 OCSE*

**Types of action:** cooperazione internazionale tra ricercatori ed istituzioni di ricerca

**Deadline:** 10 September 2018



## 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)**

**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/notizie/2018/avvisofdf/>

*PON Ricerca e Innovazione 2014-2020*

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

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





## INGEGNO

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

La Regione Calabria intende valorizzare i risultati della ricerca scientifica attraverso percorsi di sviluppo in collaborazione con le imprese del territorio, favorendo l'ingegnerizzazione industriale di soluzioni tecnologiche in stadio di sviluppo compreso fra TRL 4 e TRL 7. L'azione ha come obiettivo ultimo la trasformazione di risultati della ricerca in prodotti o servizi reali volti al miglioramento e alla crescita aziendale delle imprese calabresi. Il percorso INGEGNO, avviato attraverso la call pubblica rivolta agli operatori della ricerca delle Università pubbliche e degli EPR, si sviluppa per fasi: FASE 1. Rilevazione dei risultati della ricerca scientifica che siano in uno stadio di sviluppo compreso tra TRL4 e TRL7; FASE 2. Valutazione della coerenza con la Strategia di Specializzazione Intelligente (S3 Calabria) e del TRL minimo pari a 4 (condizioni necessarie per accedere al percorso); FASE 3. Approfondimento degli aspetti relativi alla potenzialità applicativa della soluzione e presentazione dei risultati della ricerca nella vetrina pubblica di INGEGNO rivolta alle aziende; FASE 4. Gestione dei rapporti di collaborazione tra imprese e gruppi di ricerca nella definizione del piano di attività, del piano sulla proprietà intellettuale e del piano finanziario necessari al progetto di valorizzazione dei risultati della ricerca tramite convalida industriale.

**Read more on:**

<http://calabriaeuropa.regione.calabria.it/website/bando/352/index.html>

POR CALABRIA FESR-FSE 2014-2020

**Opening date:**

24 January 2018

**Deadline:** Bando a sportello



## Consiglio Nazionale delle Ricerche

### ➔ BILATERAL AGREEMENT CNR/HAS (HUNGARIAN ACADEMY OF SCIENCES) - UNGHERIA

**Topics:** tutte le aree scientifiche.

**Call identifier:** CNR/HAS

Nell'ambito delle attività previste dall'Accordo di Cooperazione Scientifica e Tecnologica tra l'Italia e l'Ungheria, la Struttura di Particolare Rilievo 'Relazioni Internazionali' della Direzione Generale del CNR, per la Parte italiana, e la HAS, per la Parte ungherese, hanno avviato procedure per la selezione di progetti ammissibili, disciplinati dall'Accordo tra le Parti. L'Accordo tra il CNR e la HAS prevede per ciascun approvato progetto un contributo annuale massimo di Euro 4.000,00 per parte CNR e la copertura dei viaggi - soggiorno in Italia da parte della HAS. Si specifica che le spese rendicontabili sono le seguenti: 1. viaggi e soggiorni di ricerca solo in Ungheria di durata non inferiore a 3 gg. 2. spese di ricerca, per un importo massimo del 35% delle spese già sostenute per viaggi e soggiorni.

**Read more on:**

<https://www.cnr.it/it/accordi-bilaterali/documento-bando/127/cnr-has-ungheria-bando-triennio-2019-2021-signed.pdf>

*Bilateral Agreements*

**Types of action:** Joint research projects in the triennium 2019-2021

**Deadline:**

14 September 2018 10:00:00



## European Patent Office

### ➔ EUROPEAN INVENTOR AWARD 2019

**Topics:** The categories are: Industry (To outstanding and successful inventors whose inventions have been patented by large European companies), Research (To pioneering inventors working at universities or research institutes), Non-EPO countries (To outstanding inventors from outside the EPO's 38 member states who have been granted a European patent), SMEs (To exceptional inventors at small and medium-sized enterprises), Lifetime achievement (Honouring the incredible, long-term contribution of European inventors over the span of their entire careers)

Inventors proposed for the European Inventor Award must have been granted at least one valid European patent for the invention. Any inventor of any nationality who has at least one valid European patent can be nominated. Inventions presented in the category "Research" will often have led to major technological progress and enhanced the reputation of the inventor's institution.

**Read more on:**

<http://www.epo.org/learning-events/european-inventor/nominate.html>

*European Inventor Award*

**Types of action:** Award

**Deadline:**

28 September 2018





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