

Upcoming Calls

EU:

Call title	Details	Deadline	Budget
MSCA-ITN-2020	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. 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. Partnerships take the form of collaborative European Training Networks (ETN), European Industrial Doctorates (EID) or European Joint Doctorates (EJD).	14 January 2020	Unit costs based on number of person months
ICT-38-2020	Artificial Intelligence for Manufacturing RIA: The focus is on integrating state-of-the-art AI technologies in the manufacturing domain, for example in agile production processes and predictive quality, taking into account the domain-specific requirements in terms of time criticality, safety and security, finding effective ways for collaboration between humans and AI systems, and exploiting the strengths of both humans and machines while keeping the human in control. CSA: Proposals are expected to extend, further develop, and support the implementation of a model for the synchronisation of standardisation activities on AI and related digital technologies in manufacturing at large, at the Member State level and at the European level – and in a global context, taking into account legal and ethical issues where relevant. Proposals need to build on previous activities, such as the results of the Joint MSP/DEI Working Group on standardisation in support of Digitising European Industry.	16 January 2020	€4-6 million (RIA) €0.5 Million (CSA)

Call title	Details	Deadline	Budget
ICT-42-2020	<p><i>5G PPP – 5G Core technologies innovation`</i></p> <p>The key 5G technological blocks under consideration are primarily hardware-based and include, but are not limited to, phase array antenna, array processors, millimetre wave devices and subsystems, photonics based devices, baseband processor platforms, low-cost access points, new generation of 5G terminals notably for future Connected and Automated Mobility, in order to provide opportunities for innovative high-tech SMEs access to new markets through pilot validation of promising solutions. A special emphasis will be put on new types of IoT devices demonstrating the use of 5G connectivity functionalities addressing requirements of one or several vertical industry sectors.</p> <p>The objectives of the target support actions are: definition of the expected core hardware components of future connectivity systems where Europe should seize opportunities and strengthen its capabilities, taking into account the characteristics and architectures, including security, of future connectivity platforms; definition of the required R&I and investment requirements related to the identified domains; definition of related industry roadmap in partnership among relevant EU actors, both from industry and academia</p>	16 January 2020	€4-6 million (RIA) €1 Million (CSA)
ICT-44-2020	<p><i>Next Generation Media</i></p> <p>Proposals are invited against at least one of the following three subtopics: Business Innovation Ecosystems; New User Driven and Enriched Experiences in Future Media; Starts – Technology and Arts Alliance as Driver for Next Generation Media</p>	16 January 2020	IA: €5 million CSA: €2 million
ICT-50-2020	<p><i>Software Technologies</i></p> <p>RIA: Proposals will address one of the two following areas: Development tools & methods for interoperable, adaptive, secure and trustworthy software, or Advanced Software systems and architectures</p> <p>CSA: Coordinate stakeholders in the area of software technologies, digital infrastructures and cybersecurity. Act as support to R&D programmes/activities by disseminating project results and organising scientific and policy events, developing research and innovation roadmaps.</p>	16 January 2020	RIA: €3-5 million CSA: €1 million

Call title	Details	Deadline	Budget
ICT-51-2020	<p><i>Big Data Technologies and extreme-scale analytics</i></p> <p>RIA: Proposals should cover at least one of the following technology areas: machine learning/deep learning (especially on distributed data sets), architectures for collecting, managing and exploiting vast amounts of data; system engineering/tools to contribute to the co-design of federated/distributed systems (to involve all stakeholders/technology areas); new methods for extreme-scale analytics, deep analysis, precise predictions and automated decision-making; novel visualization techniques; data fusion and data integration technologies; standardized interconnection methods for efficient sharing of heterogeneous data pools, seamlessly using distributed tools and services.</p> <p>CSA: The aim of this action is to ensure coordination between the different existing and emerging activities in HPC/BD/Cloud/AI technologies, including Public-Private Partnerships, digital innovation hubs, and relevant national and regional initiatives, in particular the European Network of National Big Data Centres of Excellence[1]. This action is expected to support the transition towards the activities in the Horizon Europe programme.</p>	16 January 2020	RIA: €3-6 million CSA: €1.5 million
ICT-54-2020	<p><i>Blockchain for the next generation internet</i></p> <p>Proposals should address one of the following sub-topics:</p> <ol style="list-style-type: none"> 1) Advancing research on Blockchain and Distributed Ledger Technologies 2) Fostering trust in internet information exchange and content with blockchain 	16 January 2020	Sub-topic 1: €8 million Sub-topics 2 & 3: € 6 million

Call title	Details	Deadline	Budget
ICT-56-2020	<p><i>Next Generation Internet of Things</i></p> <p>RIA: Proposals must address all of the following challenges: Next generation IoT architectures with a focus on user-aware, self-aware and semi-autonomous IoT systems. This should also address new real-time capable solutions, which solve performance challenges such as streaming and filtering at the edge, latency and network constraints. Interoperability to cope with the increased complexity of connecting vast numbers of heterogeneous devices with increasing demands for data sharing, protection of privacy, data monetization and contractual arrangements (e.g. blockchains/DLTs) for secure and trusted interaction. Intelligent IoT devices supporting the proposed use cases and drawing from applicable results in micro-nano-bio technologies. Tactile/contextual Internet of Things based on human-centric sensing/actuating, augmented/virtual reality and new IoT service capabilities.</p> <p>CSA: This action will support measures for further development of IoT ecosystems, partnerships, stakeholders networking, contribution to pre-normative activities and to standardisation, development of business models, innovation activities and skills building.</p>	16 January 2020	RIA: €5-8 million CSA: €2 million
ERC Consolidator Grant	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. Applicant Principal Investigators must demonstrate the ground-breaking nature, ambition and feasibility of their scientific proposal. The Principal Investigator shall have been awarded their first PhD over 7 and up to 12 years prior to 1 January 2020. The effective elapsed time since the award of the first PhD can be reduced in certain properly documented circumstances (see ERC Work Programme 2020).	04 February 2020	€ 2 million
ERAPerMed	Pre announcement Call: Joint transnational call for proposals (2020) for Personalised medicine – pre-/clinical research, big data and ICT, implementation and user’s perspective. Proposals must be interdisciplinary and clearly demonstrate the potential impact in PM as well as the added value of transnational collaboration.	March 2020	Total budget: 24.6 Mio€ (approx.)

Call title	Details	Deadline	Budget
DT-ICT-04-2020-Photonics Innovation Hubs	<p>The challenge is to provide a sustainable ecosystem of research and innovation support for the benefit of SMEs facilitating a broad uptake and integration of photonics technologies. These Photonics Innovation Hubs will help speed up the uptake of photonics technologies in order to make European industry more competitive and foster new business and business models. Business cases must be industrially relevant and should include industrialisation steps to technology and market readiness levels of 7 - 8.</p>	22 April 2020	9.5 million
DT-ICT-09-2020 Boost rural economies through cross-sector digital service platforms	<p>Proposals are expected to develop and demonstrate cost-efficient and flexible cross-domain applications through large-scale pilots. These should build on an open, API-based, interoperable and federated IoT architecture and include a reference implementation supporting flexible integration of heterogeneous services. Pilots should bridge the interoperability gap of the smart object platforms and create markets for service - and application providers as well as platform operators, supported by a vibrant ecosystem of developers, service providers and user communities.</p>	22 April 2020	15 million
DT-ICT-12-2020 AI for the smart hospital of the future	<p>Devise in-facility pilot demonstrators that deliver innovative AI-based solutions in a health and care setting such as a hospital, primary care facility or care home. Pilots should enable or support clinical, diagnosis and treatment, etc. carried out with clinical outcomes comparable to human delivered procedures and with comparable results.</p>	22 April 2020	7-10 million
ICT-36-2020 Disruptive photonics technologies	<p>The challenge is the development of advanced photonics technologies which have the potential to revolutionise an existing application sector or to create completely new applications and markets. The focus is on the following themes (sub-topics):</p> <ol style="list-style-type: none"> 1) 3D light field and holographic displays 2) Packaging and module integration for photonic integrated circuits 3) Light to Fuel 4) Next generation biophotonics methods and devices as research tools to understand the cellular origin of diseases 	22 April 2020	3-6 million

Call title	Details	Deadline	Budget
ICT-37-2020 Advancing photonics technologies and application driven photonics components and the innovation ecosystem	<p>The challenge is to develop and apply core photonics technology for the next generation of devices (including components, modules and sub-systems) in order to drive innovation in key application areas, which are significant current or future markets and where photonics can bring a key competitive advantage. The focus is on the following themes (sub-topics):</p> <ul style="list-style-type: none"> a) Flexible Farm-to-Fork Sensing (RIA) b) Novel Photonics Integrated Circuit (PIC) Technology building blocks (RIA) c) Smart Photonic Sensing for Environmental Pollution Detection (IA) d) An industrial strategy for photonics in Europe (CSA) 	22 April 2020	3-7 million
ICT-40-2020 Cloud Computing: towards a smart cloud computing continuum	<p>The challenge is to develop comprehensive cloud solutions and testbeds combining various execution platforms for ubiquitous and seamless execution computing environments as a foundation for a complete computing continuum. This requires novel solutions for federating infrastructures, programming applications and services, and composing dynamic workflows, which are capable of reacting in real-time to unpredictable data sizes, availability, locations, and rates. This will provide application developers with greater control over network, computing and data infrastructures and services, and the end-user will benefit from seamless access to continuous service environments. Such solutions should also address security, semantic interoperability, heterogeneous data integration, organisation and linking, data protection, performance, resilience and energy-efficiency requirements to respond to the future digitisation needs of industry and the public sector. Addressing these challenges will also be part of and contribute to the technological ambitions of the Next Generation Internet (NGI).</p>	22 April 2020	3-5 million

Call title	Details	Deadline	Budget
ICT-41-2020 5G PPP – 5G innovations for verticals with third party services	<p>Experimentation facilities able to provide enhanced experimentation infrastructures on top of which third party experimenters e.g. SMEs or any service provider and target vertical users will have the opportunity to test their applications in an integrated, open, cooperative and fully featured network platform running across multiple domains where needed and tailored to specific vertical use case. The objective is to focus on innovation for operations and secure/trusted service provisioning taking advantage of experimental facilities featuring virtualised and software implemented functions and representative of a redesigned virtualised access/core network. The facilities should provide opportunities for SMEs and developers to experiment their applications in the context of specific vertical use cases on open experimental network platforms, and to create 5G open source repositories for wide use and towards standards development. Typical vertical use cases include connected and automated mobility, smart factories and industry 4.0 use cases. Furthermore, healthcare, PPDR, energy, media though other verticals may be considered.</p>	22 April 2020	4-6 million
ICT-46-2020 Robotics in Application Areas and Coordination & Support	<p>While robots originated in large-scale mass manufacturing, they are now spreading to more and more application areas. In these new settings, robots are often faced with new technical and non-technical challenges. The purpose of this topic is to address such issues in a modular and open way and reduce the barriers that prevent a more widespread adoption of robots. Four Priority Areas (PAs) are targeted: healthcare, inspection and maintenance of infrastructure, agri-food, and agile production. In each of these PAs it is critical to develop appropriate autonomous capability that has impact on the efficiency of key applications in the PAs and moves beyond the current state of the art. This capability is built from core technologies and is proved and tested through pilot demonstrators that embed within real or near real environments.</p>	22 April 2020	3-7 million

Call title	Details	Deadline	Budget
ICT-47-2020 Research and Innovation boosting promising robotics applications	<p>Innovative approaches to hard research problems in relation to applications of robotics in promising new areas are particularly encouraged. Proposals are expected to enable substantially improved solutions to challenging technical issues, with a view of take-up in applications with high socio-economic impact and low environmental footprint, where appropriate. Driven by application needs, the work can start from research at low TRL, but proposals are expected to validate their results in sufficiently realistic scenarios in order to demonstrate the potential for take-up in the selected application(s).</p>	22 April 2020	2-3 million
ICT-49-2020 Artificial Intelligence on demand platform	<p>This topic builds on the AI-on-demand-platform funded in ICT26-2018-20, a reference access point gathering and providing access to AI-related knowledge, algorithms and tools and access to related infrastructures, equipment, and data resources, offering also experts support to potential users of AI in order to facilitate the integration of AI into applications, making it a compelling solution for users, especially from non-tech sectors.</p> <p>This activity aims at consolidating the eco-system by bringing in a larger user community, especially from the non-tech sector, and by reinforcing the service layer of the platform. At this stage, it will be particularly important to refine mechanisms to ensure the platform's long-term sustainability. The platform should provide a good European coverage, both in terms origin of the resources made available on the platform, but also in terms of users of the platform, making sure its resource is available everywhere in Europe.</p>	22 April 2020	5 million
ICT-52-2020 5G PPP – Smart Connectivity beyond 5G	<p>The work covers the long term transformation of networks into a distributed smart connectivity platform with high integration with (edge) computing and storage resources. Work should lead to solutions where processes and applications are dynamically supported depending on the information flows and application requirements. It should enable novel interaction between human and digital systems based on new terminal types embedded in the daily environment, e.g. in cars, doors, mirrors, appliances, and new interfaces recognising gestures, facial expressions, sound and haptics. Work should lead to smart connectivity infrastructure with adaptive topologies that supports a virtually infinite capacity and perceived zero latency, highly diverse device densities and highest reliability and availability[1]. It should lead to professional grade of security and privacy whilst bringing down OPEX, CAPEX, and energy consumption.</p>	22 April 2020	5-12 million

Call title	Details	Deadline	Budget
ICT-57-2020 An empowering, inclusive Next Generation Internet	<p>Develop novel mobile applications translating between speech and sign languages to assist people with hearing impairments. The projects should leverage on current state-of-the-art in translation between all official spoken and sign languages of the EU Member States and associated countries for efficient and effective use on mobile devices. Projects should explore how end-users can best interact and cooperate with the application and how the system adapts to users in real-life conditions and prevents unintended gender bias in translation. The resulting applications should be open source, robust, cost-effective and validated across a wide spectrum of users. Priority will be given to projects addressing a wide range of languages, in particular under-resourced languages.</p>	22 April 2020	2-4 million
ICT-58-2020 International partnership building between European and African innovation hubs	<p>To reinforce cooperation and strategic partnership with selected countries in Africa to support the strengthening of existing digital innovation hubs (DIHs) in Africa and to facilitate the collaboration between EU and African DIHs in order to strengthen a common EU-Africa innovation and start-up ecosystem</p>	22 April 2020	1-2 million

Science Foundation Ireland:

Call title	Details	Deadline	Budget
<u>ALECS MSCA Fellowships</u>	This programme offers two-year fellowships in LERO, the Irish software research centre. The fellowship includes a mandatory 3-6 month secondment.	13 January 2020	Two-year fellowship
<u>SFI Public Service Fellowship</u>	SFI will be offering STEM researchers, at a range of career stages, a unique opportunity to be seconded to government departments and agencies. Successful Researchers in Residence will work on specific projects where their expertise and experience will add value with mutually beneficial outcomes. Potential projects include data analysis to improve process efficiencies, research/policy analysis or horizon scanning to help inform future Government policy.	23 January 2020	Varies per fellowship – max award €100,000 direct costs
<u>ELITE-S MSCA Fellowships</u>	ELITE-S is a postdoctoral fellowship programme for intersectoral training, career development and mobility. They are offering 16 prestigious, two-year fellowships, in technology and standards development to address 5 EU priority areas: 5G, Internet of Things, Cloud computing, Cybersecurity and Data technologies. Applicants must have a doctorate degree or have at least 4 years of full-time research experience. Applicants must comply with the mobility rule.	20 February	Living allowance of €45,120 per annum + mobility and research allowance

Irish Research Council:

Call title	Details	Deadline	Budget
New Foundations	Supporting eligible researchers who intend to pursue research, networking and/or dissemination activities within and across the diversity of disciplines. This scheme provides support for research actions, the development of networks, conference development, conference participation or attendance, creation of workshops and/or more general dissemination activities designed to communicate the outcomes and values of academic research in Ireland and beyond.	02 December 2019	€5,000 - €15,000, depending on the strand applied for
CHIST-ERA	Transnational research call addressing the themes: <ul style="list-style-type: none">• Explainable Machine Learning- based Artificial Intelligence, and• Novel Computational Approaches for Environmental Sustainability	14 February 2020	16 million overall budget

Enterprise Ireland:

Call title	Details	Deadline	Budget
Career-FIT PLUS	Career-FIT PLUS aims to enhance the training and mobility of Experienced Researchers through the undertaking of individually-driven, market-focused research projects which will be centred around the domain areas of the designated Technology Centres and Technology Gateways. Two calls for proposals will award a total of 50 Fellowships to highly skilled researchers to conduct a research project of 36 months in Ireland, including a secondment opportunity in an enterprise partner of the Technology Centre/Gateway.	19 December 2019	~ €85,000 per annum.
Commercialisation Fund Project Support	Commercialisation Fund Project Support is available for projects that address a gap or need in the market by developing innovations that will ideally be ready for licensing to Irish industry or may form the basis of a new start-up in 2-5 years	14 February 2020	€80,000 - €350,000

Health Research Board:

Call title	Details	Deadline	Budget
HRB Internship Programme 2019 Round 2	Our Internship Programme gives researchers who have recently earned a PhD or an MSc an opportunity to gain first-hand experience of working in a State agency alongside experienced professionals.	12 December 2019	€124,000 for 24 months

ROLLING CALLS

Call title	Details	Budget
Enterprise Ireland Commercial Case Feasibility Grant	Commercial Case Feasibility Support is a funding support which can be obtained by researchers, in partnership with their Technology Transfer or equivalent office, for a short Feasibility Project (up to 3 months) to scope and develop the commercial case for their innovation.	€10,000 to €15,000 (up to 3 months)
Enterprise Ireland Travel Support Scheme for Horizon 2020	Financial contribution is available to travel and meet potential H2020 partner or attend EU information days/workshops. Eligible costs include least-cost travel expenses and subsistence rates. Visits can be up to three days duration. All applications should be submitted to Enterprise Ireland in advance of travel.	Maximum €400/day for up to 3 days.
Enterprise Ireland Coordination Support Scheme for Horizon 2020	All research projects are eligible. Eligibility includes researchers employed in publicly-funded research performing organisations. Academic coordinator support applications will only be accepted up to 10 weeks prior to call deadline (or submission date).	€12,500
Enterprise Ireland Coordination Support For ERC Applications	Applications can be made by researchers in higher education or publicly funded institutions. The scheme covers all funding streams by the European Research Council (ERC). Application forms must be submitted to Enterprise Ireland a minimum of 6 months in advance of the ERC deadline	Maximum of €16,000
Enterprise Ireland Innovation Partnership Programme	The Innovation Partnership Programme can help you to take your business to the next level. Enterprise Ireland can help your company to access the latest skills and expertise from research institutes throughout Ireland. The Innovation Partnership Programme can provide up to 80% of the cost of research work to develop new and improved products, processes or services, or generate new knowledge and know-how.	Up to €200k
EPSRC-SFI Joint Funding of Research	This partnership will support joint research and technology development in all areas of EPSRC's remit which covers chemistry, engineering, information and communications technologies, materials, mathematical sciences and physics. To receive support from SFI, the ROI partner(s) must be based at an institution eligible for SFI support.	€500,000 indirect costs (plus overheads).

Call title	Details	Budget
SFI Research Centre SPOKES	<p>This programme is a vehicle to enable the addition of new industrial and academic partners and projects to a SFI Research Centre, so allowing the Centre to expand and develop in line with new priorities and opportunities. To apply for a Spokes award under the rolling call mechanism, the industry partner (or partners) must make a minimum 50% cash contribution to the research programme.</p>	<p>No minimum or maximum</p>
SFI Research Professorship Programme	<p>The purpose of the SFI Research Professorship Programme is to recruit outstanding, world-renowned research and leadership talent to Ireland. The ambitions of the appointed SFI Research Professor will not only be consistent with the strategic plans of the host Research Body but will also need to align with Ireland's strategic objectives and its national research and innovation priorities. Given the outstanding nature of the individuals that this programme is intended to support, submission of Full Proposals will be by invitation only following completion of an Expression-of-Interest phase.</p>	<p>Up to €5M (direct costs)</p>
SFI Discover Programme - Opportunistic Funding Mechanism	<p>The aim of this call is to support projects that encourage people of all ages and backgrounds in the Republic of Ireland to engage with STEM. If a researcher's project does not come under the remit of the annual SFI discover programme, it is possible to apply for this fund. Applicants must provide a strong rationale as to why their project could not be funded by Discover or another SFI call. Applicants submit an expression of interest form, and if successful will be invited to submit a full proposal.</p>	<p>Up to €50,000. Amounts above this must demonstrate matched funding</p>
Cross-Border Collaboration Voucher	<p>InterTradeIreland's Horizon 2020 travel schemes support those working on a cross-border basis in Horizon 2020 to travel both on the island and across the EU. The Cross-Border Collaboration Voucher offers up to €500 to early-stage partnerships travelling across Ireland and Northern Ireland to scope out potential project ideas.</p>	<p>Up to €500</p>
Wellcome Trust Innovator Awards	<p>These awards support researchers who are transforming great ideas into healthcare innovations that could have a significant impact on human health. Our current focus areas are mental health, neurological disorders and neglected tropical diseases. Individuals and teams from not-for-profit and commercial organisations can apply. Organisations can be of any size, based anywhere in the world.</p>	<p>Up to £750,000</p>