

**Appels à propositions dans le cadre du programme européen pour la recherche et l'innovation  
« HORIZON 2020 »**

**PRIMAUTE INDUSTRIELLE**

**Nanotechnologies, Matériaux, Biotechnologies et Procédés de fabrication et de production avancés**

Titre	Type	Budget	Date d'ouverture	Date limite
<b>OPEN INNOVATION TEST BEDS</b>				
<a href="#">DT-NMBP-03-2019: Open Innovation Test Beds for nano-enabled surfaces and membranes</a>	IA	50 M€	10/16/2018	22/01/2019 (1ère étape) puis 03/09/2019 (2ème étape)
<b>DT-NMBP-04-2020: Open Innovation Test Beds for bio-based nano-materials and solutions</b>	IA	A définir		
<b>DT-NMBP-05-2020: Open Innovation Test Beds for functional materials for building envelopes</b>	IA	A définir		
<b>DT-NMBP-06-2020: Open Innovation Test Beds for nano-pharmaceuticals production</b>	IA	A définir		
<b>Caractérisation des matériaux et modélisation informatique</b>				
<a href="#">DT-NMBP-08-2019: Real-time nano-characterisation technologies</a>	RIA	37,8 M€	10/16/2018	22/01/2019 (1ère étape) puis 03/09/2019 (2ème étape)
<a href="#">DT-NMBP-10-2019: Adopting materials modelling to challenges in manufacturing processes</a>	RIA			
<a href="#">DT-NMBP-12-2019: Sustainable Nano-Fabrication</a>	CSA	4 M€	10/16/2018	22/01/2019 (1ère étape) puis 03/09/2019 (2ème étape)
<b>DT-NMBP-11-2020: Open Innovation Test Beds for Materials Modelling</b>	IA	A définir		
<b>Gouvernance, évaluation du risque basée sur la science et aspects réglementaires</b>				
<a href="#">NMBP-15-2019: Safe by design, from science to regulation: metrics and main sectors</a>	RIA	27,8 M€	16-Oct-18	22/01/2019 (1ère étape) puis 03/09/2019 (2ème étape)
<b>NMBP-16-2020: Safe by design, from science to regulation: behaviour of multi-component nanomaterials</b>	RIA	A définir		
<b>NMBP-17-2020: Regulatory science for medical technology products</b>	RIA	A définir		
<a href="#">NMBP-34-2019 : In support of documentary standards (CSA)</a>	CSA	3 M€	16-Oct-18	9/3/2019

FACTORIES OF THE FUTURE (FOF)				
<a href="#">DT-FOF-05-2019: Open Innovation for collaborative production engineering</a>	IA			
<a href="#">DT-FOF-06-2019: Refurbishment and re-manufacturing of large industrial equipment</a>	IA	106,6 M€	16-Oct-18	21-Feb-19
<a href="#">DT-FOF-08-2019: Pilot lines for modular factories</a>	IA			
<a href="#">DT-FOF-12-2019: Handling systems for flexible materials</a>	RIA			
<a href="#">DT-NMBP-18-2019: Materials, manufacturing processes and devices for organic and large area electronics</a>	IA	20 M€	16-Oct-18	22/01/2019 (1ère étape) puis 03/09/2019 (2ème étape)
<a href="#">DT-NMBP-19-2019: Advanced materials for additive manufacturing</a>	IA	20,4 M€	16-Oct-18	22/01/2019 (1ère étape) puis 03/09/2019 (2ème étape)
<b>DT-FOF-07-2020: Reliable and accurate assembly of micro parts</b>	RIA	A définir		
<b>DT-FOF-09-2020: Holistic energy-efficient factory management</b>	IA	A définir		
<b>DT-FOF-10-2020: Pilot lines for large-part high-precision manufacturing</b>	IA	A définir		
<b>DT-FOF-11-2020: Quality control in smart manufacturing</b>	IA	A définir		

Biotechnologies				
<a href="#">BIOTEC-02-2019: Boosting the efficiency of photosynthesis</a>	RIA	31 M€	16-Oct-18	22/01/2019 (1ère étape) puis 03/09/2019 (2ème étape)
<a href="#">CE-BIOTEC-05-2019: Microorganism communities for plastics bio-degradation</a>	RIA	10 M€	16-Oct-18	24-Apr-19
<b>BIOTEC-06-2020: Reprogrammed microorganisms for biological sensors</b>	IA	A définir		
<b>BIOTEC-07-2020: Multi-omics for the optimisation of genotype-phenotype associations</b>	RIA	A définir		
Innovations technologiques médicales				
<b>NMBP-21-2020: Custom-made biological scaffolds for specific tissue regeneration and repair</b>	RIA	A définir		
<b>DT-NMBP-23-2020: Next generation organ-on-chip</b>	RIA	A définir		
SUSTAINABLE PROCESS INDUSTRY (SPIRE)				
<a href="#">CE-SPIRE-04-2019: Efficient integrated downstream processes</a>	IA	65,8 M€	16-Oct-18	21-Feb-19
<a href="#">CE-SPIRE-05-2019: Adaptation to variable feedstock through retrofitting</a>	IA			
<a href="#">DT-SPIRE-06-2019: Digital technologies for improved performance in cognitive production plants</a>	IA	32,9 M€	16-Oct-18	21-Feb-19
<b>CE-SPIRE-01-2020: Industrial symbiosis</b>	IA	A définir		
<b>CE-SPIRE-07-2020: Recovery of industrial water, thermal energy and substances contained therein</b>	IA	A définir		
<b>CE-SPIRE-08-2020: Improved Industrial Processing using novel high-temperature resistant materials</b>	RIA	A définir		
<b>CE-SPIRE-09-2020: Making the most of mineral waste, by-products and recycled material as feed for high volume production</b>	IA	A définir		
Catalyser l'économie circulaire				
<a href="#">CE-NMBP-25-2019: Photocatalytic synthesis</a>	RIA	18,46 M€	16-Oct-18	22/01/2019 (1ère étape) puis 03/09/2019 (2ème étape)
Energie propre à travers les matériaux innovants				
<a href="#">LC-BAT-1-2019* Strongly improved, highly performant and safe all solid state batteries for electric vehicles</a>	LC	A définir	24-Jan-19	4/25/2019
<a href="#">LC-NMBP-29-2019: Materials for non-battery based energy storage</a>	RIA	65,1 M€	16-Oct-18	21-Feb-19
<a href="#">LC-NMBP-32-2019: Smart materials, systems and structures for energy harvesting</a>	RIA			
<b>LC-NMBP-28-2020: Advanced materials for innovative multilayers for durable photovoltaics</b>	IA	A définir		
<b>LC-NMBP-31-2020: Materials for off shore energy</b>	IA	A définir		
Héritage culturel				
ENERGY-EFFICIENT BUILDINGS (EEB)				
<a href="#">LC-EEB-01-2019: Integration of energy smart materials in non-residential buildings</a>	IA			
<a href="#">LC-EEB-03-2019: New developments in plus energy houses</a>	IA	53,5 M€	16-Oct-18	21-Feb-19
<a href="#">LC-EEB-05-2019-20: Integrated storage systems for residential buildings</a>	IA			
<b>LC-EEB-04-2020: Industrialisation of building envelope for the renovation market</b>	IA	A définir		

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**Espace**

Titre	Type	Budget	Date d'ouverture	Date limite
<b>Observation de la terre</b>				
<a href="#">DT-SPACE-01-EO-2018-2020: Copernicus market uptake</a>	IA	9 M€	16-Oct-18	12-Mar-19
<a href="#">LC-SPACE-04-EO-2019-2020: Copernicus evolution – Research activities in support of cross-cutting applications between Copernicus services</a>	RIA	8 M€	16-Oct-18	12-Mar-19
<a href="#">LC-SPACE-05-EO-2019: Copernicus evolution – Research activities in support to a European operational monitoring system for fossil CO2 emissions</a>	RIA	9 M€	16-Oct-18	12-Mar-19
<a href="#">DT-SPACE-06-EO-2019: International Cooperation Copernicus – Designing EO downstream applications with international partners</a>	RIA	5 M€	16-Oct-18	12-Mar-19
<b>Commerce spatial, entrepreneuriat, vulgarisation et éducation</b>				
<a href="#">DT-SPACE-09-BIZ-2019: Space hubs (support to start-ups)</a>	CSA	2 M€	16-Oct-18	12-Mar-19
<b>Technologies spatiales, science et exploration</b>				
<a href="#">SPACE-10-TEC-2018-2020: Technologies for European non-dependence and competitiveness</a>	RIA	13 M€	16-Oct-18	12-Mar-19
<a href="#">SPACE-13-TEC-2019: SRC – In-Space electrical propulsion and station keeping</a>	RIA	10 M€	16-Oct-18	12-Mar-19
<a href="#">LC-SPACE-14-TEC-2018-2019: Earth observation technologies</a>	RIA	8 M€	16-Oct-18	12-Mar-19
<a href="#">SPACE-17-TEC-2019: Access to space</a>	RIA	9 M€	16-Oct-18	12-Mar-19
<a href="#">SPACE-18-TEC-2019-2020: In-orbit validation/demonstration – Mission design, integration and implementation</a>	RIA	20 M€	16-Oct-18	12-Mar-19
<b>Sécurité et environnement spatial sûr</b>				
<a href="#">SU-SPACE-22-SEC-2019: Space Weather</a>	RIA	9 M€	16-Oct-18	12-Mar-19
<a href="#">LC-SPACE-EGNSS-1-2019-2020: EGNSS applications fostering green, safe and smart mobility</a>	IA	10 M€	16-Oct-18	5-Mar-19
<a href="#">DT-SPACE-EGNSS-2-2019-2020: EGNSS applications fostering digitisation</a>	IA	4 M€	16-Oct-18	5-Mar-19
<a href="#">SU-SPACE-EGNSS-3-2019-2020: EGNSS applications fostering societal resilience and protecting the environment</a>	IA	4 M€	16-Oct-18	5-Mar-19
<a href="#">SPACE-EGNSS-4-2019: Awareness Raising and capacity building</a>	CSA	2 M€	16-Oct-18	5-Mar-19

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**TIC**

Titre	Type	Budget	Date d'ouverture	Date limite
<b>Technologies pour numériser l'industrie européenne</b>				
<a href="#">ICT-01-2019: Computing technologies and engineering methods for cyber-physical systems of systems</a>	RIA	2 M€	16-Oct-18	28-Mar-19
<a href="#">ICT-03-2018-2019: Photonics Manufacturing Pilot Lines for Photonic Components and Devices</a>	IA	30 M€	16-Oct-18	28-Mar-19
<a href="#">ICT-05-2019: Application driven Photonics components</a>	RIA	1,5 M€	16-Oct-18	28-Mar-19
<a href="#">ICT-06-2019: Unconventional Nanoelectronics</a>	RIA	30 M€	16-Oct-18	28-Mar-19
<a href="#">ICT-08-2019: Security and resilience for collaborative manufacturing environments</a>	RIA	11 M€	16-Oct-18	28-Mar-19
<a href="#">ICT-09-2019-2020: Robotics in Application Areas</a>	RIA	20 M€	16-Oct-18	28-Mar-19
<a href="#">ICT-10-2019-2020: Robotics Core Technology</a>	RIA	42 M€	16-Oct-18	28-Mar-19
<b>Infrastructures de données européennes : HPC, Big Data et technologies cloud</b>				
<a href="#">ICT-13-2018-2019 : Supporting the emergence of data markets and the data economy</a>	IA	48 M€	16-Oct-18	28-Mar-19
<a href="#">ICT-15-2019-2020 : Cloud Computing</a>	RIA	1,5 M€	16-Oct-18	28-Mar-19
<b>5G</b>				
<a href="#">ICT-20-2019-2020: 5G Long Term Evolution</a>	RIA	44 M€	16-Oct-18	28-Mar-19
<a href="#">ICT-23-2019: EU-Taiwan 5G collaboration</a>	RIA	4 M€	5-Sep-18	15-Jan-19
<b>Next Generation Internet (NGI)</b>				
<a href="#">ICT-24-2018-2019 : Next Generation Internet - An Open Internet Initiative</a>	RIA	21,5 M€	16-Oct-18	28-Mar-19
<a href="#">ICT-30-2019-2020: An empowering, inclusive Next Generation Internet</a>	IA	7 M€	16-Oct-18	28-Mar-19
<a href="#">ICT-31-2018-2019: EU-US collaboration on NGI</a>	RIA	3,5 M€	16-Oct-18	28-Mar-19
<a href="#">ICT-33-2019: Startup Europe for Growth and Innovation Radar</a>	IA	10 M€	16-Oct-18	28-Mar-19
<a href="#">ICT-34-2018-2019: Pre-Commercial Procurement open</a>	PCP	6 M€	16-Oct-18	28-Mar-19
<b>Activités transversales</b>				
<b>Soutien aux Hubs</b>				
<a href="#">DT-ICT-01-2019: Smart Anything Everywhere</a>	IA	48 M€	16-Oct-18	2-Apr-19
	CSA	1 M€	16-Oct-18	2-Apr-19
<b>DT-ICT-03-2020: I4MS (phase 4) - uptake of digital game changers and digital manufacturing platforms</b>	A définir			
<b>DT-ICT-04-2020: Photonics Innovation Hubs</b>	A définir			

DT-ICT-05-2020: Big Data Innovation Hubs

A définir



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Plateformes et pilotes				
<a href="#">DT-ICT-07-2018-2019: Digital Manufacturing Platforms for Connected Smart Factories</a>	IA	45 M€	16-Oct-18	2-Apr-19
	CSA	1 M€	16-Oct-18	2-Apr-19
<a href="#">DT-ICT-11-2019: Big data solutions for energy</a>	IA	30 M€	16-Oct-18	2-Apr-19
<b>DT-ICT-09-2020: Digital service platforms for rural economies</b>	A définir			
<b>DT-ICT-12-2020: The smart hospital of the future</b>	A définir			
Cybersécurité				
<a href="#">SU-ICT-02-2020: Building blocks for resilience in evolving ICT systems</a>	RIA	47 M€	25-Jul-19	19-Nov-19
<b>SU-ICT-03-2020: Advanced cybersecurity and digital privacy technologies</b>	A définir			
Appel conjoint UE-Japon				
Appel conjoint UE-Corée				
Autres actions				

