

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

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

Biotechnologies				
BIOTEC-02-2019: Boosting the efficiency of photosynthesis	RIA	31 M€	16-oct-18	22/01/2019 (1ère étape) puis 03/09/2019 (2ème étape)
CE-BIOTEC-05-2019: Microorganism communities for plastics bio-degradation	RIA	10 M€	16-oct-18	24-avr-19
BIOTEC-06-2020: Reprogrammed microorganisms for biological sensors	IA	A définir		
BIOTEC-07-2020: Multi-omics for the optimisation of genotype-phenotype associations	RIA	A définir		
Innovations technologiques médicales				
NMBP-21-2020: Custom-made biological scaffolds for specific tissue regeneration and repair	RIA	A définir		
DT-NMBP-23-2020: Next generation organ-on-chip	RIA	A définir		
SUSTAINABLE PROCESS INDUSTRY (SPIRE)				
CE-SPIRE-04-2019: Efficient integrated downstream processes	IA	65,8 M€	16-oct-18	21-févr-19
CE-SPIRE-05-2019: Adaptation to variable feedstock through retrofitting	IA			
DT-SPIRE-06-2019: Digital technologies for improved performance in cognitive production plants	IA	32,9 M€	16-oct-18	21-févr-19
CE-SPIRE-01-2020: Industrial symbiosis	IA	A définir		
CE-SPIRE-07-2020: Recovery of industrial water, thermal energy and substances contained therein	IA	A définir		
CE-SPIRE-08-2020: Improved Industrial Processing using novel high-temperature resistant materials	RIA	A définir		
CE-SPIRE-09-2020: Making the most of mineral waste, by-products and recycled material as feed for high volume production	IA	A définir		
Catalyser l'économie circulaire				
CE-NMBP-25-2019: Photocatalytic synthesis	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				
LC-BAT-1-2019* Strongly improved, highly performant and safe all solid state batteries for electric vehicles	RIA	25 M€	24-janv-19	25-avr-19
LC-BAT-2-2019: Strengthening EU materials technologies for non-automotive battery storage (RIA)	RIA	24 M€	24-janv-19	25-avr-19
LC-BAT-3-2019: Modelling and simulation for Redox Flow Battery development	RIA	5 M€	24-janv-19	25-avr-19
LC-BAT-4-2019: Advanced Redox Flow Batteries for stationary energy storage	RIA	15 M€	24-janv-19	25-avr-19
LC-BAT-5-2019: Research and innovation for advanced Li-ion cells (generation 3b)	RIA	30 M€	24-janv-19	25-avr-19
LC-BAT-6-2019: Li-ion Cell Materials & Transport Modelling	RIA	13 M€	24-janv-19	25-avr-19
LC-BAT-7-2019: Network of Li-ion cell pilot lines	CSA	2 M€	24-janv-19	25-avr-19

LC-NMBP-29-2019: Materials for non-battery based energy storage	RIA	65,1 M€	16-oct-18	21-févr-19
LC-NMBP-32-2019: Smart materials, systems and structures for energy harvesting	RIA			
LC-NMBP-28-2020: Advanced materials for innovative multilayers for durable photovoltaics	IA	A définir		
LC-NMBP-31-2020: Materials for off shore energy	IA	A définir		
Héritage culturel				
ENERGY-EFFICIENT BUILDINGS (EEB)				
LC-EEB-01-2019: Integration of energy smart materials in non-residential buildings	IA	53,5 M€	16-oct-18	21-févr-19
LC-EEB-03-2019: New developments in plus energy houses	IA			
LC-EEB-05-2019-20: Integrated storage systems for residential buildings	IA			
LC-EEB-04-2020: Industrialisation of building envelope for the renovation market	IA	A définir		