

## Horizon 2020 – Nanotechnologies, Advanced Materials, Biotechnology and Advanced Manufacturing and Processing

### Topics 2018-2020 Budget and Deadlines

	Call Topic	Budget €M	Deadline
OPEN INNOVATION TEST BEDS			
DT-NMBP-01-2018	Open Innovation Test Beds for Lightweight, nano-enabled multifunctional composite materials and components (IA)	€7-15M per project	23 Jan 2018 (First Stage)  28 Jun 2018 (Second Stage)
DT-NMBP-02-2018	Open Innovation Test Beds for Safety Testing of Medical Technologies for Health	€7-15M per project	23 Jan 2018 (First Stage)  28 Jun 2018 (Second Stage)
DT-NMBP-03-2019:	Open Innovation Test Beds for nano-enabled surfaces and membranes (IA)	€7-15M per project  Total Call Budget €50M	22 Jan 2019 (First Stage)  03 Sep 2019 (Second Stage)
DT-NMBP-04-2020	Open Innovation Test Beds for bio-based nano-materials and solutions (IA)	No Information available yet	
DT-NMBP-05-2020	Open Innovation Test Beds for functional materials for building envelopes (IA)		
DT-NMBP-06-2020	Open Innovation Test Beds for nano-pharmaceuticals production (IA)		
MATERIALS CHARACTERISATION and COMPUTATIONAL MODELLING			
DT-NMBP-07-2018	Open Innovation Test Beds for Characterisation (IA)	Up to 9€M per project	23 Jan 2018 (First Stage)  28 Jun 2018 (Second Stage)
DT-NMBP-08-2019	Real-time nano-characterisation technologies (RIA)	€4-5M per project	22 Jan 2019 (First Stage)  03 Sep 2019 (Second Stage)
DT-NMBP-09-2018	Accelerating the uptake of materials modelling software (IA)	Up to 4€M per project	23 Jan 2018 (First Stage)  28 Jun 2018 (Second Stage)
DT-NMBP-10-2019	Adopting materials modelling to challenges in manufacturing processes (RIA)	Up to 5€M per project  Total Call Budget €20M	22 Jan 2019 (First Stage)  03 Sep 2019 (Second Stage)
DT-NMBP-11-2020	Open Innovation Test Beds for Materials Modelling (IA) No Information available yet		22 Jan 2019 (First Stage)

			03 Sep 2019 (Second Stage)
DT-NMBP-12-2019	Sustainable Nano-Fabrication (CSA)	Up to 5€M per project	03 Sep 2019
GOVERNANCE, SCIENCE-BASED RISK ASSESSMENT AND REGULATORY ASPECTS			
NMBP-13-2018	Risk Governance of nanotechnology (RIA)	Up to 5€M per project	23 Jan 2018 (First Stage)
NMBP-14-2018	Nanoinformatics: from materials models to predictive toxicology and ecotoxicology (RIA)	Up to 6€M per project	28 Jun 2018 (Second Stage)
NMBP-15-2019	Safe by design, from science to regulation: metrics and main sectors (RIA)	€5-6M per project  Total Call Budget €27.8M	22 Jan 2019 (First Stage)  03 Sep 2019 (Second Stage)
NMBP-16-2020	Safe by design, from science to regulation: behaviour of multi-component nanomaterials (RIA)	No Information available yet	
NMBP-17-2020	Regulatory science for medical technology products (RIA)		
FACTORIES OF THE FUTURE (FOF)			
DT-FOF-01-2018	Skills needed for new Manufacturing jobs (CSA)	€1-2M per project	22 Feb 2018
DT-FOF-02-2018	Effective Industrial Human-Robot Collaboration (RIA)	€6-8M per project	
DT-FOF-03-2018	Innovative manufacturing of opto-electrical parts (RIA)	€6-8M per project	
DT-FOF-04-2018	Pilot lines for metal Additive Manufacturing (IA 50%)	€12-15M per project	
DT-FOF-05-2019	Open Innovation for collaborative production engineering (IA)	€4-6M per project	21 Feb 2019
DT-FOF-06-2019	Refurbishment and re-manufacturing of large industrial equipment (IA)	€12-15M per project	
DT-FOF-07-2020	Reliable and accurate assembly of micro parts (RIA)	No Information available yet	
DT-FOF-08-2019	Pilot lines for modular factories (IA 50%)	€12-15M per project	21 Feb 2019
DT-FOF-09-2020	Holistic energy-efficient factory management (IA)	No Information available yet	
DT-FOF-10-2020	Pilot lines for large-part high-precision manufacturing (IA 50%)		
DT-FOF-11-2020	Quality control in smart manufacturing (IA)		
DT-FOF-12-2019	Handling systems for flexible materials (RIA)	€6-8M per project	21 Feb 2019
DT-NMBP-18-2019	Materials, manufacturing processes and devices for organic and large area electronics (IA)	€4-5M per project	22 Jan 2019 (First Stage)
DT-NMBP-19-2019	Advanced materials for additive manufacturing (IA)	€6-8M per project	03 Sep 2019 (Second Stage)
DT-NMBP-20-2018	A digital 'plug and produce' online equipment platform for manufacturing (IA)	Lump Sum €7.5M per project	08 Mar 2018
Biotechnology			
BIOTEC-01-2018	Standardisation in Synthetic Biology (CSA)	Up to €2M per project	22 Feb 2018

BIOTEC-02-2019	Boosting the efficiency of photosynthesis (RIA)	€6-8M per project	23 Jan 2018 (First Stage)  28 Jun 2018 (Second Stage)
BIOTEC-03-2018	Synthetic biology to expand diversity of nature's chemical production (RIA)	€6-8M per project	22 Jan 2019 (First Stage)  03 Sep 2019 (Second Stage)
CE-BIOTEC-04-2018	New biotechnologies for environmental remediation (RIA)	Up to €5M per project	25 Apr 2018
CE-BIOTEC-05-2019	Microorganism communities for plastics bio-degradation (RIA)	Up to €5M per project	24 Apr 2019
BIOTEC-06-2020	Reprogrammed microorganisms for biological sensors (IA)	No Information available yet	
BIOTEC-07-2020	Multi-omics for the optimisation of genotype-phenotype associations (RIA)		
MEDICAL TECHNOLOGY INNOVATIONS			
NMBP-21-2020	Custom-made biological scaffolds for specific tissue regeneration and repair (RIA)	No Information available yet	
NMBP-22-2018	Osteoarticular tissues regeneration (RIA)	€4-6M per project	23 Jan 2018 (First Stage)  28 Jun 2018 (Second Stage)
DT-NMBP-23-2020	Next generation organ-on-chip (RIA)	No Information available yet	
SUSTAINABLE PROCESS INDUSTRY (SPIRE)			
CE-SPIRE-01-2020	Industrial symbiosis (IA)	No Information available yet	
CE-SPIRE-02-2018	Processing of material feedstock using non-conventional energy sources (IA)	€6-10M per project	22 Feb 2018
CE-SPIRE-03-2018	Energy and resource flexibility in highly energy intensive industries (IA 50%)	€8-12M per project	
CE-SPIRE-04-2019	Efficient integrated downstream processes (IA)	€10-14M per project	21 Feb 2019
CE-SPIRE-05-2019	Adaptation to variable feedstock through retrofitting (IA 50%)	€8-12M per project	
DT-SPIRE-06-2019	Digital technologies for improved performance in cognitive production plants (IA)	€6-8M per project	
CE-SPIRE-07-2020	Recovery of industrial water, thermal energy and substances contained therein (IA)	No Information available yet	
CE-SPIRE-08-2020	Improved Industrial Processing using novel high-temperature resistant materials (RIA)		
CE-SPIRE-09-2020	Making the most of mineral waste, by-products and recycled material as feed for high volume production (IA)		
CE-SPIRE-10-2018	Efficient recycling processes for plastic containing materials (IA)	€6-8M per project	22 Feb 2018
CATALYSING THE CIRCULAR ECONOMY			
CE-NMBP-24-2018	Catalytic transformation of hydrocarbons (RIA)	€5-7M per project	23 Jan 2018 (First Stage)

			28 Jun 2018 (Second Stage)
CE-NMBP-25-2019	Photocatalytic synthesis (RIA)	€5-7M per project	22 Jan 2019 (First Stage)  03 Sep 2019 (Second Stage)
CE-NMBP-26-2018	Smart plastic materials with intrinsic recycling properties by design (RIA)	€4-6M per project	23 Jan 2018 (First Stage)  28 Jun 2018 (Second Stage)
<b>CLEAN ENERGY THROUGH INNOVATIVE MATERIALS</b>			
LC-NMBP-27-2019	Strengthening EU materials technologies for non-automotive battery storage (RIA)	€6-8M per project	22 Jan 2019 (First Stage)  03 Sep 2019 (Second Stage)
LC-NMBP-28-2020	Advanced materials for innovative multilayers for durable photovoltaics (IA)	No Information available yet	
LC-NMBP-29-2019	Materials for non-battery based energy storage (RIA)	€4-6M per project	22 Jan 2019 (First Stage)  03 Sep 2019 (Second Stage)
LC-NMBP-30-2018	Materials for future highly performant electrified vehicle batteries (RIA)	€6-8M per project	23 Jan 2018 (First Stage)  28 Jun 2018 (Second Stage)
LC-NMBP-31-2020	Materials for off shore energy (IA)	No Information available yet	
LC-NMBP-32-2019	Smart materials, systems and structures for energy harvesting (RIA)	€5-7M per project	22 Jan 2019 (First Stage)  03 Sep 2019 (Second Stage)
<b>CULTURAL HERITAGE</b>			
NMBP-33-2018	Innovative and affordable solutions for the preventive conservation of cultural heritage (IA)	€4-6M per project	23 Jan 2018 (First Stage)  28 Jun 2018 (Second Stage)
<b>ENERGY-EFFICIENT BUILDINGS (EEB)</b>			
LC-EEB-01-2019	Integration of energy smart materials in non-residential buildings (IA)	€4-6M per project	21 Feb 2019
LC-EEB-02-2018	Building information modelling adapted to efficient renovation (RIA)	€5-7M per project	22 Feb 2018
LC-EEB-03-2019	New developments in plus energy houses (IA)	€6-8M per project	21 Feb 2019
LC-EEB-04-2020	Industrialisation of building envelope for the renovation market (IA)	No Information available yet	

LC-EEB-05-2019-20	Integrated storage systems for residential buildings (IA)	€6-8M per project	21 Feb 2019
LC-EEB-06-2018-20	ICT enabled, sustainable and affordable residential building construction, design to end of life (IA 50%)	€6-8M per project	22 Feb 2018