

Programme: EU-HORIZON 2020 Industrial leadership - 2014-2020

Call:

DT-NMBP-04-2020

Topic/s:

Nano-enabled bio-based materials can contribute to a stronger circular economy and more sustainable growth, with due consideration to life-cycle impact as well as their potential to substitute scarce materials. Novel approaches should be deployed for industry to produce new, eco-friendly, nano-enabled bio-based materials with advanced properties and functionalities relevant for various applications.

The challenge is to upscale and demonstrate in an industrial environment the sustainable conversion of different types of feedstock and bio resources in value-added novel, advanced, nano-enhanced bio-based materials and their application in products.

Scope:

Establish Open Innovation Test Beds (OITB) by upgrading existing or developing new materials facilities and pilot lines, and make available to industry and interested parties, including SMEs, their services for the design, development, testing, regulatory (including safety) and environmental assessment, and upscaling of specific material compositions;

The focus is on new nano-enabled bio-based materials' functions, features, capabilities, robustness and properties, processing techniques and optimisation of process parameters, from the transformation of bio-based building blocks and to the production of new, eco-friendly, nano-enabled bio-based materials relevant to various applications, covering the full scale of new or existing industrial and consumer products;

Proposals should assess regulatory, safety, economic and technical barriers and should develop and validate tools to enable in-line quality control processes;

Open access at fair conditions and cost as well as outreach and dissemination across Europe, based on a distinct methodology;

Materials should be demonstrated in relevant industrial environments;

Proposals submitted under this topic are encouraged to include actions designed to facilitate cooperation, across Europe, with other projects; to enhance user involvement; and to ensure the accessibility and reusability of data produced in the course of the project.

Proposals should therefore include a business case and exploitation strategy, as outlined in the LEIT Introduction in this Work Programme. In particular, they should demonstrate the likelihood of an additional turnover of at least 4 times the requested

EU funding, within 5 years of the end of the grant.

Activities should start at TRL 4 and achieve TRL 7 at the end of the project.

The Commission considers that proposals requesting a contribution from the EU between EUR 7 and 15 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

AG1 priority fields: Agriculture; Forestry; Energy; Advanced Manufacturing; ICT

Call Budget: 4000000,00€

Co-funding type:

Co-funding type: € euro

Opening date: 03 Jul 2019

Deadline date: 12 Dec 2019; 14 May 2020

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Call presentation and documents: <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunit...>

Field: Research

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