

Partnering Opportunity

Profile status : Published

Research Development Request

H2020 - FNR-11-2020: SMEs for scale up polymer production and business development experts sought.

Summary

A Slovenian research organization is coordinator of a proposal for H2020 call "FNR-11-2020 Prospecting aquatic and terrestrial natural biological resources for biologically active compounds" with the aim of developing prototypes from compounds isolated from marine and freshwater microorganisms to be used as compounds for various industries. To complete the consortium, companies are needed for scale up production and for business development, bridging the gap between R&D and commercialization.

Creation Date	09 December 2019
Last Update	20 December 2019
Expiration Date	13 January 2020
Reference	RDSI20191209001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/2825096c-e44f-48b4-a65f-b66a295a07ee

Details

Description

Slovenian research institute is an experienced project partner and leader. The institute has participated in over 50 international projects in the last 10 years. A smaller research group within the institute is actively engaged into marine biotechnology sector with the overall mission to become a significant partner for research and development of novel compounds originating from marine biomass.

Marine and freshwater environments are underexplored and unexploited. It is estimated that only 1% of marine microorganisms is known today, mainly due to the limitations in cultivating them under sterile laboratory conditions.

Moreover, microorganisms in nature never exist as pure cultures, hence it is difficult to mimic the natural conditions that would allow the growth of microbial cultures in artificial, laboratory environments. Where provided with a functional substrate, these microorganisms form biofilms and synthesize polymers with advantageous properties for the food, feed, pharma and other industries. The identity and structure of many of these polymers is still unknown.

Starting from the microbial biodiversity and the chemical diversity of the compounds they synthesize, the overall project idea is to isolate polymers and develop the prototypes for use in important industrial sectors: novel drug / feed delivery mechanisms, anti-biofouling compounds and possibly also novel packaging biomaterial.

Research and development activities planned in the project proposal are:

- identification and use of novel microbial sources from marine and freshwater ecosystems around Europe;
- identification and isolation of biotechnologically relevant chemical compounds;
- polymerization and prototyping of compound production;
- identification of target areas for use of novel compounds (drug delivery, feed, packaging, anti-biofouling);
- scale up technology for industrially relevant quantities (partners needed);
- prototype finalization (partners needed)
- business and IPR development and market search (partners needed).

When developing the technologies it is often important to bridge the communication and collaboration gap between science-technology-industry-policy making.

Hence, partners with expertise to bridge this gap are sought:

- business development companies and
- scale up production companies

to join the project consortium under research cooperation agreement.

The consortium currently has enough academic partners and the participation of SMEs with relevant expertise and skills to the project idea (business development, prototyping and scale-up technology) is needed.

Deadline for expressions of interest: 23.12.2019

Deadline of the call: 22.01.2020 (first stage)

Stage of development

Proposal under development

Comments Regarding Stage of Development

The draft proposal is under development.

Comment Regarding IPR status

IPR will be an important aspect in the project and partners (SMEs) with IPR protection and ethics in business development are especially welcome.

Keywords

Technology

02007014	Plastics, Polymers
02007020	Biobased materials
10002013	Clean Production / Green Technologies
10002015	Life Cycle Assessment
11001	Socio-economic models, economic aspects

Market

05007002	Pharmaceuticals/fine chemicals
05008001	Marine products
05008002	Food and feed ingredients
08001018	Polymer (plastics) materials

NACE

M.72.1.9	Other research and experimental development on natural sciences and engin
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Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

Contact Person

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Open for EOI: **No**

Dissemination

Relevant sector groups

Bio Chem Tech

Client

Type and Size of Organisation Behind the Profile

R&D Institution

Year Established

1960

Turnover

1 - 10M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Italian

Client Country

Slovenia

Partner Sought

Type and Role of Partner Sought

- Type of partner sought: SMEs
- Specific area of activity of the partner sought:
 1. scale up production technologies (validation of laboratory production to guarantee quantities)
 2. business development
- Field of expertise/experience:
 1. polymer production
 2. market search, legal obligations, IPR
- Task to be performed by the partner sought:
 - 1.1 Scale up production of 1-2 selected polymers and their application in target industries (packaging, drug delivery, feed delivery, anti-biofouling compounds)
 - 1.2. prototyping
 2. business development case study scenarios, market analysis in European countries, LCA, IPR contracts within the consortium

Type and Size of Partner Sought

SME 11-50, SME <10, SME 51-250

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

H2020

Call title and identifier

H2020 FNR-11-2020 »Prospecting aquatic and terrestrial natural biological resources for biologically active compounds«

Submission and evaluation scheme

Two stage submission:
- stage 1 deadline 22/01/2020;
stage 2 deadline 08/09/2020.

Anticipated Project Budget

up to 7.5 M EUR

Coordinator required

No

Acronym

MicroAction

Duration

208 days

Deadline for EOI

13 Jan 2020

Deadline of the Call

23 Jan 2020

Weblink to the call

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/fnr-11-2020>

Attachments
