

Partnering Opportunity

Profile status: Published

Research Development Request

Spanish Technological Centre is searching a company to participate as end user in a FTI-H2020 project aimed to develop a biodegradable and compostable high barrier multilayer packaging

Summary

Last Update

Expiration Date

A Spanish Technological Center is preparing a project proposal to be submitted to Fast Track to Innovation call under Horizon 2020 programme. This Center is a non-profit organization with the mission of improving the competitiveness of the regional SMEs and companies. The project will develop an active biodegradable and compostable multilayer film for snacks packaging. The company seeks a partner, which role will be end-user. This partner will validate de new technology in a real scenario.

Creation Date 10 December 2019

04 February 2020

07 June 2020

Reference RDES20191210001

Public Link https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/b4985a6d-6311-407b-a784-9ca8ff310dee

Details

Description

The Spanish Technological Center is a meeting point to carry out R&D project, acquire legal information, regional and national funding for projects, among other activities. It is actively involved in the Spanish Technology Platform for Sustainable Agriculture (agricultural plastics) and in major standardization committees on plastic items,

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especially for agricultural use (film, pipe, etc.). Furthermore, it is a member of The Bio-Based Industries Joint Undertaking (BBI JU). Furthermore, it has previous experience in European projects as a partner as well as coordinator of consortiums.

Currently, multilayer films (a film with each layer is composed of different polymers) are widely used as barrier material in the food packaging industry in a cost-effective manner, ensuring to keep the food quality. The combination of several polymer layers significantly increases shelf ife by controlling the transmission rate of oxygen, carbon dioxide and moisture as well as the concentration of oxygen inside the package which is a key in preserving the food. Besides, these films include other important properties as mechanical, sealing and adhesion properties. However, these multilayer packaging are not recyclable due to the combination of different polymers that they are made. As consequence the end of life of this packaging is either landfill or incineration, counteracting the efforts towards a circular economy and crude oil independency. The food sector demands the highest quality in packaging solutions, requiring excellent presentation with focus on product shelf-life extension.

The project aim is the development of an active biodegradable and compostable multilayer film for snacks packaging. It will be based on compounding techniques and selection of natural additives. Natural antimicrobial and antioxidants additives will be selected and incorporated to one of the layers aimed to extend the shelf life of food and increasing the period of time that the food is high quality (Active packaging).

The Coordinator and three companies are already included in the consortium. Their roles will be: technical support and plastic validation tests during the project; pilot manufacturing of the biodegradable compounds to obtain layers of biodegradable barrier film packaging; pilot manufacturing of the biodegradable barrier multilayer packaging; development of the biodegradable adhesives and biodegradable inks.

The coordinator is looking for a company to participate in the project as an end-user partner to validate de new technology in a real scenario. Preferentially, the end-user partner should be manufacturer and distributor of snacks, such as dried fruits, branded nuts, peanuts, chips/crisps, candies, crackers or similar products.

The project will be submitted to Fast Track to Innovation call under Horizon 2020 programme. The deadline of the call is 9th of June 2020. The project will last 30 months.

Deadline for the Expressions of Interest is 7th of June.

Advantages and innovations

Plastic packaging waste in Europe is recycled in a 35%. This figure must be increased in a near future. In fact, the European Commission aims that all plastic packaging is recyclable by 2030. The developed packaging will be a sustainable alternative to current commercial multilayer films having the same technical properties: high barrier properties, as well as mechanical, sealing and adhesion properties. The packaging will be designed to be compostable at industrial composting facilities and at home composters. Therefore, this development will avoid the incineration and the landfill routes at their end of life phase.

Keywords

Technology

Plastics, Polymers

06006002 Bioplastics

06006004 Biopolymers

06006005 Biobased high-performance materials

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08001003 Food Packaging / Handling

Market

07003002 Health food

08001001 Plastic fabricators

08001006 Processes for working with plastics

09004006 Packing products and systems

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

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Open for EOI: Yes

Client

Type and Size of Organisation Behind the Profile

R&D Institution

Year Established

0

Already Engaged in Trans-National Cooperation

No

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Client Country

Spain

Partner Sought

Type and Role of Partner Sought

Company as end-user partner to validate the new technology in a real scenario. Preferentially, the end-user partner should be manufacturer and distributor of snacks, such as dried fruits, branded nuts, peanuts, chips/crisps, candies, crackers and similar products.

Type and Size of Partner Sought

SME 11-50,SME <10,>500 MNE,251-500,SME 51-250,>500

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

H2020

Call title and identifier

EIC-FTI-2018-2020

Coordinator required

No

Deadline for EOI

07 Jun 2020

Deadline of the Call

09 Jun 2020

Attachments

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