

# Partnering Opportunity

Profile status : Published

## Research Development Request

### GREEN-LOOP: Manufacturing technologies for bio-based materials (Topic: Horizon-cl4-2021-twin-transition-01-05)

#### Summary

*Andalusian SME dedicated to carry out Research&Development projects for industries, will coordinate a project proposal to be submitted to the Twin-Transition 2021 Horizon Europe call focused on developing bio-based products for the food and beverage industry, particularly bottle closures. It looks for partners (end-users) for testing bottle closures at a relevant industry scale to establish research cooperation agreement*

Creation Date	15 June 2021
Last Update	29 June 2021
Expiration Date	30 July 2021
Reference	RDES20210615001
Public Link	<a href="https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/57903eec-e3ef-482e-beee-a2e1c7aa1fe0">https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/57903eec-e3ef-482e-beee-a2e1c7aa1fe0</a>

#### Details

##### Description

The target of GREEN-LOOP project is to develop a new bio-based product for the sector of food and beverage, particularly, a novel bioplastic bottle closure that can be used for any type of merchandise such as beer, water, oils, etc. The novel design of the bottle closure, will fulfill new European needs for a circularity, as it can be recycled at the end of its useful life, achieving a new sustainable product, environmentally friendly, with low production cost and near to zero wastes.

Particular objectives of GREEN-LOOP project are:

- Develop products with similar or better mechanical, physical and chemical properties, while having a substantially lower environmental footprint and being sustainable, non-toxic and recyclable when compared to non-bio-based materials;
- Demonstrate relevant scale production of innovative bio-based products to substitute traditional materials with high environmental footprint;
- Demonstrate disruptive innovation of bio-based materials production in at least three different manufacturing value chains;
- Develop sustainable business models for materials sourcing and recycling.

Type of partner sought:

The Andalusian SME is looking for end users able to test the bottle bio-closures at relevant industrial scales. These bottle closures can be used in any kind of liquid or food and are safe for human use.

Consortium:

The company will coordinate the proposal. Among the entities currently involved in the project consortium there are two relevant European research centres, experts on bio-based materials, manufacturers, and specialists on circular economy.

Currently, the consortium is closed, except for the end-user of bottle closures.

Call/Topic conditions:

Call: Horizon-CL4-2021-Twin-Transition-01

Topic: Horizon-CL4-2021-Twin-Transition-01-05

Type of action: Research and Innovation Actions

Model: Single Stage

Official deadline for the call: September 23rd, 2021.

Deadline for Expression of interest: July 30th, 2021.

Anticipated duration of the project: 36 months

## Advantages and innovations

- The design of the bio-based new product will allow to accomplish the European Sustainable Development Goals for circularity, eliminating the traditional products foodprint, and achieving a non-toxic and recyclable new product when compared to non-bio-based materials
- The bio-based product can be used for any kind of merchandise such as beer, water, oils, etc.
- Disruptive innovation of bio-based materials production

## Technical Specification or Expertise Sought

The role of the company sought will be end-user of the new bio-based bottle closures, preferable from the food/beverage industry sector.

This company must define the specifications of the bottle closures to be used in its process. It will test the closures at a relevant industrial scale, ensure they fit their needs and all regulations and standards required for

the sector

## Stage of development

Proposal under development

## Comments Regarding Stage of Development

The proposal is at very advanced stage. Section 1 and 3 almost finished

## IPR Status

Other

## Comment Regarding IPR status

Some of the manufacture technologies to be used in the project as well as bio-based products created may be subject to intellectual property rights

## Keywords

### Technology

08001001	Drink Technology
08001003	Food Packaging / Handling
08001004	Food Processing
08001005	Food Technology

### Market

07003001	Wine and liquors
07003003	Soft drinks and bottling plants

### NACE

M.71.1.2	Engineering activities and related technical consultancy
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## Network Contact

### Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

### Contact Person

ZEBROWSKI Pawel

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**Open for EOI:**      **Yes**

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**Client**

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**Type and Size of Organisation Behind the Profile**

Industry SME 11-49

**Year Established**

2010

**Already Engaged in Trans-National Cooperation**

Yes

**Languages Spoken**

English  
Spanish

**Client Country**

Spain

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**Partner Sought**

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**Type and Role of Partner Sought**

Type of partner sought: Company in the food/beverage sector.

Role of the partner sought: End-user of the new bio-based bottle closures. This company must define the specification of the bottle closures to be used in its process. It will also test the closures at a relevant industrial scale, ensure they fit their needs and all regulations and standards required for the sector.

## Type and Size of Partner Sought

>500 MNE, >500

## Type of Partnership Considered

Research cooperation agreement

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## Program - Call

### Framework Program

Specific actions

### Call title and identifier

HORIZON-CL4-2021-TWIN-TRANSITION-01-05 Manufacturing technologies for bio-based materials

### Submission and evaluation scheme

Horizon Europe evaluation

### Coordinator required

No

### Acronym

GREEN-LOOP

### Duration

144 days

### Deadline for EOI

30 Jul 2021

### Deadline of the Call

23 Sep 2021

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## Attachments

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