

Partnering Opportunity

Profile Status: Published

Research & Development Request

H2020-DT-ICT-03-2020: SMEs and mid-caps interested in cyber-physical systems (CPS) and robotics to improve small-scale production and/or personalised products

Summary

A Spanish SME specialised in ICT solutions and with wide experience in European projects is working on an H2020-DT-ICT-03-2020 proposal to explore and promote the use of cyber-physical systems (CPS) and robots for small-scale production of different types of products, including discrete (e.g. electronic devices, toys, shoes) and continuous (e.g. liquid, fabric, powder) manufacturing but also construction. SMEs and mid-caps interested in CPS are sought for demonstration tasks.

Creation Date	30 September 2019
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Expiration Date	15 October 2019
Reference	RDES20190930001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/f92ef212-b52c-4f9a-8650-f5796daecade

Details

Description

Competitiveness and profitability characterise modern manufacturing processes, in which mass production is given way to mass customisation. Global marketplaces can be seen, built on rich e-commerce platforms and made-to-order product configuration. This is making a great era for consumers, as they can enjoy customised products brought to the door of their house, or several versions of the same product at different prices, having a wide spectrum of products for selecting one or many of them. However, this process is challenging for manufacturers as they need to produce complex products at small-scale production – i.e., derived from the large number of product variants and/or high customisation degree – which requires high flexibility at production level while having an increasing pressure to raise productivity rates and reduce waste, energy and resource consumption.

The aim of this project is demonstrating and showcasing how the adoption, adaptation and

integration of advanced digital technologies can improve manufacturing processes at SMEs and mid-caps in different sectors. For this purpose, a new generation of autonomous and cognitive robots will be deployed on the factory floor being managed and continuously monitored by a cyber-physical system (CPS) that collects, processes and exploits data from several sources (e.g., sensors, actuators, etc.) to effectively plan and control the production line towards the optimisation of the overall performance.

Framework programme conditions: H2020 Innovation Action, single stage evaluation scheme.

Call deadline: November 13th 2019.

EOI deadline: October 15th 2019.

SMEs and mid-caps interested in CPS and robotics are sought to participate in the proposals as end-users.

Stage of Development

Proposal under development

Comments Regarding Stage of Development

The consortium is built (a digital innovation hub and several ICT companies are included) and the approach has been defined. Looking for end users only.

Keywords

Technology

01001001 Automation, Robotics Control Systems

Market

08002004 Robotics
09004008 Other manufacturing (not elsewhere classified)
09007001 Construction companies

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

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Open for EOI : **Yes**

Dissemination

Relevant Sector Groups

ICT Industry and Services

Client

Type and Size of Organisation Behind the Profile

Industry SME 50-249

Year Established

0

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Spanish

Client Country

Spain

Partner Sought

Type and Role of Partner Sought

SMEs or mid-caps for the demonstration of the technology developed in the project in operational environment. Key activities will include:

- Definition of needs and requirements
- Elaboration of use case
- Co-creation of the approach
- Test and validation of the solution (as well as ideas implemented by third parties through open

calls).

- Demonstration in operational environment
- Collaboration in dissemination and networking activities to attract other companies

Type and Size of Partner Sought

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

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

H2020

Call title and identifier

DT-ICT-03-2020 "I4MS (phase 4) – uptake of digital game changers"

Submission and evaluation scheme

Single stage

Anticipated Project Budget

8 M€

Coordinator Required

No

Deadline for EOI

15 Oct 2019

Deadline of the Call

13 Nov 2019

Project Duration

168 week(s)

Weblink to the Call

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/dt-ict-03-2020>