

Partnering Opportunity

Profile Status: Published

Research & Development Request

Eurostars: R&D performing SMEs with expertise in medical device development and competence in microtechnology, optoelectronics, plastic injection, data collection and analysis and mobile applications sought.

Summary

A Swiss university together with a Swiss start-up, is preparing a Eurostars proposal. The aim is to develop an innovative smart device for urine measurements. The device could be used worldwide as a personalised tracker of metabolic parameters. R&D performing SMEs already involved in the EU medical field, and with expertise in e.g. microtechnology, optoelectronics, plastic injection, data analysis and mobile applications are sought for a research cooperation.

Creation Date	05 June 2019
Last Update	07 June 2019
Expiration Date	20 July 2019
Reference	RDCH20190603001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/299cb2f0-a991-4ae7-85fc-4ce4fc989808

Details

Description

The objective of the project is to develop a new device (an analysis station and a mobile application) to collect, store and share data about health parameters gathered from urine ("dry chemistry" urine test). Many metabolic parameters (e.g. nitrite, protein, blood, ketone, bilirubin, glucose) can be easily measured with a urine test. The aim is to collect data and to build up a personal smart adviser. Complementary information, e.g. medical treatments, could be added to increase the information available for the algorithm.

The Swiss university and the start-up company have gained significant experience in similar projects. Their expertise already includes:

- Microtechnology and embedded systems

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- Bio signal processing
- Statistical data analysis
- Machine learning applied to personalised medicine.
- Transdisciplinary projects

The Swiss consortium is seeking SMEs (R&D performing SME according to Eurostars guidelines) with interest in personalised medicine, medical equipment and experience in the EU medical device or therapeutic markets. The Swiss start-up will take care of the distribution and of the commercialisation whilst each partner will collaborate in the production phases. The sought SMEs must have relevant experience or good network connections in the medical health areas.

The ideal SME partner will possess expertise in medical/therapeutic device standardisation and knowledge of the European market area. The needed technical expertise is in the field of microtechnology, optoelectronics, plastic injection, mobile applications, internet of things or data collection and analysis.

The project duration will be 30 months and will be conducted in two stages.

1. Development of the device.
2. Comparative validation.

The prototype (device and the mobile application) will be developed to collect and analyse data and to share the collected data remotely.

The partners for a research cooperation agreement should come from Eurostars member countries.

Eurostars supports international innovative projects led by R&D-performing SMEs.

The Eurostars call deadline is 12 September 2019.

The deadline for expressions of interests is 20 July 2019.

Advantages and Innovations

Benefit and Advantages:

- The product is designed to be used by anybody who needs to continuously monitor their own health parameters
- The exploitation of existing expertise.
- The acquired know-how in the complex research area will allow the participants to develop a new system for possible future applications in other areas.

Innovations:

- There are already many urine strip tests on the market, but none is a complete product that collects and continuously analyses results.
- The information collected could improve the reliability of self-monitoring and aid the early diagnosis or ongoing management of defined diseases.
- A strong multidisciplinary approach.

Keywords

Technology

01004001

Applications for Health

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06001005	Diagnostics, Diagnosis
06001012	Medical Research
06001013	Medical Technology / Biomedical Engineering
06005004	Remote diagnostics

Market

05001001	Diagnostic services
05001002	In-vitro diagnostics

NACE

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

Issuing Partner

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Open for EOI : **Yes**

Dissemination

Relevant Sector Groups

Bio Chem Tech
Healthcare
ICT Industry and Services
Nano- and Microtechnologies

Client

Type and Size of Organisation Behind the Profile

University

Year Established

0

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Italian

Client Country

Switzerland

Partner Sought

Type and Role of Partner Sought

The specific area of activity of the partner:

The consortium is looking for partners active in the medical devices area. The requested expertise is in microtechnology, mobile application, internet of things, data collection and analysis, optoelectronics and plastic injection systems. To create an eligible consortium the partner should be an R&D-performing SME according to Eurostars guidelines (<https://www.eurostars-eureka.eu/content/eurostars-eligibility-guidelines>).

The tasks to be performed by the partners sought are to participate in the technical development of the medical device. Furthermore, they should help to develop a solid business model, respecting the requirements for certification and commercialisation needs.

Type and Size of Partner Sought

SME 11-50,SME 51-250

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

Eureka

Call title and identifier

Eureka / Eurostars

Coordinator Required

No

Deadline for EOI

20 Jul 2019

Deadline of the Call

12 Sep 2019