

Research & Development Request

An Estonian spectroscopy company is looking for partners for H2020-EIC-SMEInst-2018-2020 SME-2 SME instrument phase 2

Summary

An Estonian SME with more than 25 years of experience in the field of Fourier Transform Infrared (FTIR) Spectroscopy is looking for SME partners active in breast cancer diagnostics and treatment. The partners involved in the SME-2 project (H2020-EIC-SMEInst-2018-2020) should be active in clinical measurement services and capable to carry out infrared spectroscopic measurements of „in vitro“ samples from patients with breast cancer and from healthy persons.

Creation Date	28 December 2017
Last Update	27 March 2018
Expiration Date	01 May 2018
Reference	RDEE20171228001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/edcf4ad5-8f71-45ba-bddf-6022764ab07b

Details

Description

The Estonian company has been manufacturing Fourier Transform Infrared (FTIR) spectroscopy instruments since 1991. The company's instruments have been used in many fields and applications, including analytical chemistry, food, environment, biomedical and academic research.

During these years, the company has been engaged in the development of infrared and near-infrared Fourier transform (FTIR) spectrometers for laboratory as well as for field use. The company's scientists and engineers have extensive research and development expertise regarding infrared and near infrared spectroscopic equipment. For instance, they have previously developed a series of infrared space-borne spectrometers for atmospheric research.

The company has previously participated in several national and international projects connected with the development of innovative FTIR spectrometers. Now, they are putting together a consortium for the H2020-EIC-SMEInst-2018-2020 SME-2 SME instrument phase 2 call. The proposal will be submitted by 23 May 2018 and the company is expecting partner offers until 1 May 2018. The project activities are planned for ca. 2 years.

Advantages and Innovations

The main innovation of the technology is in the developed non-invasive remote screening method for breast cancer screening. The method is using infrared spectroscopy to non-invasively detect molecular changes in women who have cancer. Specifically, infrared spectroscopy of women's "in vitro" samples will be used to measure these changes.

The analysis can be done remotely – "in vitro" samples can be sent to a laboratory in an envelope to the analyzing center. The attenuated total reflection (ATR) measurement technique will be used as the basic sample handling and measuring technique.

Stage of Development

Proposal under development

Comments Regarding Stage of Development

The spectra of "in vitro" samples of healthy women and patients with breast cancer have been measured by infrared spectroscopy. Some spectral differences were elucidated between samples of healthy women and that of breast cancer patients. A comparative study on the FTIR-ATR spectra of breast cancer patients along with the healthy subjects has been made. The spectral absorption values of some of the specific spectral bands of biomolecules present in the hair samples for both subjects are noted. It was observed that these biomarkers are different between samples of healthy women and that of breast cancer patients. The results were further validated with statistical analysis by applying Principal component analysis (PCA), which indicated that the spectral variations are statistically significant. The project has come through stage I (starting the development), stage II (building a proof of concept), stage III (developing the solution components), stage IV (developing the testing tools and tests) and has reached the stage V – building the solution.

IPR Status

Secret Know-how

Keywords

Technology

06001005	Diagnostics, Diagnosis
09001007	Optical Technology related to measurements

Market

03007003	Other analytical and scientific instrumentation
05001002	In-vitro diagnostics
05004005	Diagnostic equipment

NACE

C.28.9.9	Manufacture of other special-purpose machinery n.e.c.
M.74.9.0	Other professional, scientific and technical activities n.e.c.
Q.86.9.0	Other human health activities

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

Contact Person

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Open for EOI : **Yes**

Dissemination

Send to Sector Group

Healthcare

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

1996

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English

Client Country

Estonia

Partner Sought

Type and Role of Partner Sought

The partners are active in medical diagnostics or clinical measurement services and capable to carry out infrared spectroscopic measurements of „in vitro“ samples from patients with breast cancer and from healthy persons. These partners would have to be SMEs, e.g. private

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healthcare or medical diagnostics centers or clinical measurement laboratories.

All in all, the company is looking for a partner who has the necessary expertise and know-how to take responsibility for measuring the „in vitro“ samples with an FTIR spectrometer.

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

EIC-SMEInst-2018-2020
SME Instrument Phase 2

Anticipated Project Budget

2 MEUR

Coordinator Required

No

Deadline for EOI

01 May 2018

Deadline for Call

23 May 2018

Weblink to the Call

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/eic-smeinst-2018-2020.html>

Attachments

Research & Development Request

H2020 CE-SFS-24-2019 - Innovative and attractive French metropolis is searching partners notably interested in the field of sustainable alimentary supply for setting up novel urban food-chains

Summary

An innovative and attractive French public institution for inter-municipal cooperation is looking for a coordinator and other partners to answer Horizon 2020 CE-SFS-24-2019 call. The institution is searching municipalities or equal structures being experienced and applying novel practices in the domain of sustainable food-chains and food-systems. The scope of the project is to set-up an universally implementable model of an innovative, inclusive and sustainable food-system for cities.

Creation Date	08 March 2018
Last Update	20 March 2018
Expiration Date	30 September 2018
Reference	RDFR20180307001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/d5206c1b-1fad-41d3-8026-55d569a1602a

Details

Description

The rural exodus and the density of businesses and technologies in cities are reasons for the tremendous growth of the latter in the last decades. The number of people living in European cities does not cease rising.

One of the main challenges for the next years will be to find sustainable and inclusive solutions for providing the cities' inhabitants with affordable, safe and nutritious food. Cities shall be considered as "food-hubs" assuring the receipt, the dispatching and the distribution of high-quality and traceable alimentary products to their inhabitants.

The public institution for inter-municipal cooperation which is located in the south-west of France is already experienced in finding novel solutions and setting-up innovative schemes and models for furnishing sufficient quantities of food to the citizens on a local scale.

In 2014 the metropolis received the appellation "food governance" pilot city at national level. In this framework it led a diagnosis (a SWOT) on the food system of the territory and mapped the actors involved in this policy.

In 2017, in May, the City Council voted the deliberation for the creation of a Food Policy Council which is composed of 5 groups of actors:

1. Public actors
2. Food and agricultural production

3. Food processing
4. Food distribution
5. Actors involved in campaigns' awareness, defending interest and changing the practices of eaters

In response to the Horizon 2020 call CE-SFS-24-2019 "Innovative and citizen-driven food system approaches in cities", the intermunicipal institution is looking for a coordinator and other partners for constructing altogether a sustainable, inclusive, innovative model for an urban food system. This common solution shall be universally implementable. That is why the project shall be notably based on the exchange of good practices, the experimentation of existing research and its devolution to other systems and the inclusion of the citizens for detecting global urban food-management approaches.

Therefor the institution is able to mobilise the precedent actors in order to have a various and rich background serving as a base and test-ground for the project.

The institution is looking for partners (cities, inter-municipal institutions, administrations, private companies, associations, etc.) that are willing to tackle the challenge of constructing a citizen-driven and innovative model of food systems in an urban environment. To realise this challenge the partners shall be capable to assure the approaches':

- coordination
- prototyping
- large-scale testing
- demonstration & piloting in a peri-urban and urban environment
- experimental production

The call's deadline is the 23rd January 2019. The institution is expecting partner offers until 30th September 2018. The project's activities are planned for approximately three years.

Advantages and Innovations

The project's outcome shall be a model of a sustainable, inclusive, innovative, citizen-driven and viable food system which can easily find a replication and application in other cities. Furthermore the project is ought to create profound links between the participant parties.

IPR Status

Other

Keywords

Technology

08002004	Traceability of food
10002006	Ecology
10002015	Life Cycle Assessment
11001	Socio-economic models, economic aspects
11004	Technology, Society and Employment

Market

07003002	Health food
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NACE

- O.84.1.1 General public administration activities
- O.84.1.2 Regulation of the activities of providing health care, education, cultural services and other social services, except social security
- O.84.1.3 Regulation of and contribution to more efficient operation of businesses

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

Contact Person

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Phone Number

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Email

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Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

Other

Year Established

0

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
French
Spanish

Client Country

France

Partner Sought

Type and Role of Partner Sought

The institution is looking for innovative, curious and trustful partners (cities, inter-municipal institutions, administrations, private companies, associations, etc.) that are willing to tackle the challenge of constructing a citizen-driven and novel solution for sustainable and inclusive food systems in an urban environment. To realise this challenge the partners shall be capable to assure the approaches':

- coordination
- prototyping
- large-scale testing
- demonstration & piloting in a peri-urban and urban environment
- experimental production

Type and Size of Partner Sought

SME 11-50, University, Inventor, R&D Institution, 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

CE-SFS-24-2019 Innovative and citizen-driven food system approaches in cities

Submission and evaluation scheme

Single-Stage

Coordinator Required

Yes

Deadline for EOI

30 Sep 2018

Deadline for Call

23 Jan 2019

Project Duration

156 week(s)

Weblink to the Call

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/ce-sfs-24-2019.html>

Attachments
