

Research & Development Request

H2020 SC1-BHC-07-2019: Clinical and research related partners sought for a project consortium

Summary

A German research institute is preparing a proposal for the H2020 SC1-BHC-07-2019 call. Focus is a biomaterial platform that can be customized for various, engineered tissue types. The aim is to overcome current state of the art constraints in cell sheet engineering. The institute will take the lead and is looking for Health Technology partners and/or for clinical partners (tissue engineering) to join the consortium and to conclude a research cooperation agreement.

| | |
|------------------------|---|
| Creation Date | 10 December 2018 |
| Last Update | 17 December 2018 |
| Expiration Date | 31 January 2019 |
| Reference | RDDE20181120001 |
| Public Link | https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/6cfddb4-405a-4850-8f27-674ee63df4ef |

Details

Description

A Research institute from Germany with a strong expertise and history in the field of biomaterials plans to submit a proposal within the H2020 SC1-BHC-07-2019 call. The institute will overtake the role as lead partner. Now they are looking for project partners to join the consortium.

The objective is to develop a biomaterial that is not only able to ensure a healthy cell culturing process but also to extract the engineered tissue without causing any damage by a controlled degradation process.

As a proof of concept, the usefulness of this technique has been demonstrated by creating corneal endothelial lamellae (artificial Descemet membrane endothelial keratoplasty (DMEK) tissue) ex vivo. The project proposal aims to apply this technology to different tissue types other than cornea.

The German Research institute is now looking for cooperation with Health Technology partners and clinical partners, who want to support the idea and are interested in a 3-5 years partnership-156-260 weeks).

In concrete, they are looking for following partners:

- Partners from clinical research areas (tissue engineering), who would be willing to test and apply the biotechnology platform

- Health Technology partners to support the regulatory issues of the project

The optimal partner should provide complementary expertise in the outlined field, potentially in testing either pharmaceutical or biomedical applicability of the compounds developed. Expertise in EU-projects and expertise of respective content is prerequisite.

Expressions of Interest are welcome until 31.01.2019

Call deadline: 16th April 2019

Advantages and Innovations

The project will aim to deliver biotechnology solutions which are suitable for effective regenerative medicine applications as well as to overcome current constraints of the state of the art.

The ultimate goal is to achieve synergies through collaboration between industry and science to advance regenerative medicine towards clinical applications.

Technical Specification or Expertise Sought

Partners from clinical research areas with expertise in tissue engineering and health technology partners are sought.

Stage of Development

Proposal under development

IPR Status

Other

Keywords

Technology

| | |
|----------|--------------------------------|
| 02007014 | Plastics, Polymers |
| 02007020 | Biobased materials |
| 02007024 | Nanomaterials |
| 06002002 | Cellular and Molecular Biology |
| 06002007 | In vitro Testing, Trials |

Market

| | |
|----------|---|
| 04009 | In vitro Testing, Trials |
| 05004003 | Laboratory equipment |
| 05006 | Anatomy, Pathology, Immunology, Physiology |
| 05007004 | Monitoring equipment |
| 05007007 | Other medical/health related (not elsewhere classified) |

NACE

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|----------|--|
| C.21.2.0 | Manufacture of pharmaceutical preparations |
| M.71.2.0 | Technical testing and analysis |
| M.72.1.1 | Research and experimental development on biotechnology |

M.74.9.0

Other professional, scientific and technical activities n.e.c.

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

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Open for EOI : Yes

Dissemination

Relevant Sector Groups

Healthcare

Client

Type and Size of Organisation Behind the Profile

R&D Institution

Year Established

1992

Turnover

20 - 50M

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English
German

Ref: RDDE20181120001

Russian

Client Country

Germany

Partner Sought

Type and Role of Partner Sought

The German research institute will act as leading partner. They are looking for project partners from clinical research areas (all types of cell sheet engineering, especially in the field of cardiovascular engineering), clinics or related research institutes, who would use the biomaterial for tissue engineering research.

Roles and skills:

- Research on culturing of cell sheets
- Project partner in the H2020-consortium
- Test and apply the biotechnology platform
- Willing to conduct or participate in clinical studies

Health Technology partners:

- Consultancies/companies with knowledge about clinical studies
- Consultancies/companies with knowledge in field of ATMP (Advanced Therapy Medicinal Products) and CE-Certification
- Ethical researcher
- Partners, who support the regulatory issues of the project

Type and Size of Partner Sought

SME 11-50, University, R&D Institution, SME 51-250

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

H2020

Call title and identifier

SC1-BHC-07-2019: Regenerative medicine: From new insights to new applications

Submission and evaluation scheme

Research and innovation action (RIA)
Two-stage submission scheme

Anticipated Project Budget

6 - 8 Million Euro

Coordinator Required

No

Deadline for EOI

31 Jan 2019

Deadline of the Call

16 Apr 2019

Project Duration

260 week(s)

Project Title and Acronym

Biotechnology platform to culture and extract artificial engineered tissue (CuITExtra)

Research & Development Request

H2020-SFS-2018-2020: Sustainable food security—Looking for partners for project on control of the quality and the health condition on the grapevine

Summary

A Macedonian Institute of Agriculture is developing project under H2020-SFS-2018-2020: Sustainable food security. The main objective on this proposed idea is seriously unification on the whole process of quality control and health status on the grapevine from production of planting material to production of grapes. It is looking for Universities or R&D institutions that have experience in production of virus free planting material of grapevine and grape production.

| | |
|------------------------|---|
| Creation Date | 08 December 2018 |
| Last Update | 21 December 2018 |
| Expiration Date | 01 April 2019 |
| Reference | RDMK20181208001 |
| Public Link | https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/3533258d-4c11-4659-9880-c06422842699 |

Details

Description

Viticulture and winemaking as economic branches takes up a large part of the total agricultural production, and they become a significant part of the gross national income of the states. It is necessary to have much more production of healthy, virus free and quality planting material. There should be a continuous control from planting to finished product, i.e. quality control and sanitary condition of seedlings and grapes. The analyzes and laboratory trials are placed mostly on experiential evaluation, visualization and organoleptic estimation.

The idea of the project is firstly placing of control in viticulture on stable basis, to a scientific level and production of "small" i.e. experimental production under laboratory conditions (in vitro) of virus free material in controlled and selected varieties (mostly autochthonous or domesticated varieties of grapevine). After multiplication will make acclimatization and minimal propagation in half open and external conditions ("Botanical Gardens" or small greenhouses for experimental production). Further is done ELISA-test for viral testing them or makes molecular diagnostics for diseases and pests, depending on the technical equipment. Further already developed techniques and methods under laboratory conditions and in small "Botanical Gardens" along with certain advice and directions will be implemented in the wider agricultural production. Besides the production of a healthy planting material of grapevine steadily laboratories will be examined the quality and health status of the current production of grapevine in the country and of those quantities are imported from outside. It is also necessary to make DNA identification of some autochthonous and domesticated grapevine varieties that are grown in Macedonia.

The focus of this project proposal are the scientific advancements and innovative technologies that have been developed and proposed by experts of the highest scientific level to be implemented in the current production, in order for its increase and improvement.

Scientific research will include:

- Establishment of quality control and health condition of the grapevine on a stable basis at the scientific level, which will lead to improvement of the health, quality and yield of the grapevine.
- Identification of autochthonous and domesticated varieties of grapevine and utilization of their genetic potential to further improve their properties.
- The introduction, examination and analysis of varieties of grapevine located at one place (institute or research center) will contribute to better performance of analyzes and tests, improved access to information and data and reduced transport costs.
- The research will be carried out by scientific experts.
- Furthermore, the work, research and knowledge of the management of highly sophisticated equipment will lead to the creation of new methods that will be accredited and internationally recognized.
- Continuously education and distribution of young staff to perform existing activity.
- Innovation in molecular diagnostics, in vitro reproduction, clonal selection of virus-free material and genetic research on grapevine will be included in the wider production.

The project aims at control of the quality and the health condition on the grapevine on a solid basis, to create preconditions in which the quality and the health will examine on scientific level in the laboratory. The Institute has data on biodiversity and genetic resources in the grapevine in Macedonia and especially for autochthonous varieties in which the positive properties can be used.

The Institute is looking for research organizations (Universities or R&D centers) working in that have experience in research in grapevine production.

EoI deadline: 1.4.2019

Call deadline: 4.9.2019

Stage of Development

Proposal under development

Keywords

Technology

07001010

Micro- and Nanotechnology related to agriculture

Market

09009001

Conglomerates and holding companies

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

1944

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English

Client Country

Macedonia, The former Yugoslav Republic of

Partner Sought

Type and Role of Partner Sought

The Institute is looking for R&D institutions, Universities that have experience in research projects. The partners sought should have experience in virus free material and clone propagation of the grapevine, DNA identification of grapevine varieties and small and medium enterprises that are interested in such production and can provide technical assistance.

Type and Size of Partner Sought

University,R&D Institution

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

H2020

Ref: RDMK20181208001

Call title and identifier

Call identifier: SFS-28-2018-2019-2020
Genetic resources and pre-breeding communities

Coordinator Required

No

Deadline for EOI

01 Apr 2019

Deadline of the Call

04 Sep 2019

Weblink to the Call

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/sfs-28-2018-2019-2020.html>

Research & Development Request

H2020 partners sought: CE-SC5-07-2018-2019-2020: Raw materials innovation for the circular economy

Summary

A Macedonian Institute, active with R&D, is preparing a project proposal under the Work Program topic: CE-SC5-07-2018-2019-2020: Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes. The Project aims at development and demonstration in large scale (several cities across Europe) of an innovative model of use of recycled electronic waste (provided from end of life products such as computers and TV sets), as raw material in production of c

| | |
|------------------------|---|
| Creation Date | 19 December 2018 |
| Last Update | 27 December 2018 |
| Expiration Date | 01 February 2019 |
| Reference | RDMK20181219001 |
| Public Link | https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/814ca5c5-1b33-4ac0-bc21-8c19eec63339 |

Details

Description

The Project aims at development and demonstration in large scale (several cities across Europe) of an innovative model of use of recycled electronic waste (provided from end of life products such as computers and TV sets), as raw material in production of concrete.

The project title is: Innovative Circular Economy Model of Use of Recycled Waste as Raw Material in Construction Industry - InnoCERMAC.

The innovation is based on previous wide research and laboratory experiments and tests for confirmation of mechanical and chemical properties of concrete mixtures wherein fine aggregate of natural sand has been replaced by glass powder made of selected and sorted electronic waste.

The project will demonstrate a cutting edge systematic solution integrating major components:

- 1) advanced technologies of production of concrete, based on alternative raw materials and circular economy,
- 2) providing reliable, long-term and sustainable access to recycled materials which can replace natural materials in concrete production,
- 3) advanced IT technologies for improvement of application of recycling schemes in one of the most productive sectors,
- 4) carbon footprint reduction,
- 5) market confirmation of industrial research and innovation,

- 6) increasing the recovery rate in the construction materials supply chain,
- 7) innovative approaches in electronic waste collection, sorting, recycle and reuse.

The model will encompass and pilot several innovation in various fields:

- 1) novel technologies for concrete production,
- 2) innovative approaches in classification and recycling of electronic waste provided from end of life products,
- 3) new marketing and business models,
- 4) extensive use of modern IT technologies (e.g. BIM, LCA tools, Structural Health Monitoring, etc.) for optimization of a) civil structures' total production costs and benefits, b) their overall energy performance and c) life cycle effectiveness,
- 5) increasing recovery rate of construction materials

Partners profile sought:

- 1) research institutions in the field of construction materials
- 2) electronic waste collecting, processing, recovery and reuse companies and suppliers
- 3) manufacturers of concrete mixtures and prefabricated elements
- 4) design and consultancy companies
- 5) contractors / construction companies
- 6) municipalities for piloting
- 7) clients / building owners, investors and operators
- 8) business and marketing development institutions
- 9) SMEs in architecture, engineering and construction industry

- Official call Deadline: 19 February 2019
- Internal deadline for EOIs: 1 February 2019

Keywords

Technology

| | |
|----------|---|
| 02006006 | Construction engineering (design, simulation) |
| 11002 | Education and Training |

Market

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|----------|-------------------------------------|
| 09009001 | Conglomerates and holding companies |
|----------|-------------------------------------|

NACE

| | |
|----------|---|
| M.72.2.0 | Research and experimental development on social sciences and humanities |
|----------|---|

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

2012

Turnover

<1M

Already Engaged in Trans-National Cooperation

Yes

Client Country

Macedonia, The former Yugoslav Republic of

Partner Sought**Type and Role of Partner Sought**

The Institute is looking for R&D institutions, designers and manufacturers of technological equipment applicable for the described project concept and purpose, as well as universities and SMEs that have experience in research projects. The partners sought should have relevant experience, as well as potential and interest for sharing the project objective and innovation focus and for making a significant contribution to reaching the project goals. The potential partners should be associations and individual SMEs engaged in design and construction, Universities or Educational centers for continuous professional development of engineers. The prospective partners are encouraged to submit proposals for further development of the project concept.

Type and Size of Partner Sought

SME 11-50, University, R&D Institution, SME <10, SME 51-250

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

H2020

Call title and identifier

Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes

ID: CE-SC5-07-2018-2019-2020

Coordinator Required

No

Deadline for EOI

01 Feb 2019

Deadline of the Call

19 Feb 2019

Weblink to the Call

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-sc5-07-2018-2019-2020;freeTextSearchKeyword=;typeCodes=1;statusCodes=31094501,31094502;programCode=H2020;programDivisionCode=31047972;focusAreaCode=null;cr>

Project Title and Acronym

Innovative Circular Economy Model of Use of Recycled Waste as Raw Material in Construction Industry - InnoCERMAC

Research & Development Request

H2020 partners sought: CE-SC5-04-2019: Building a water-smart economy and society

Summary

A Macedonian company, is preparing a project proposal under the Work Program topic: CE-SC5-04-2019: Building a water-smart economy and society. The Project aims to demonstrate in large scale an innovative overarching model of water planning and management in all areas of water use (communal, industry, agriculture, energy generation sector). It is looking for project partners to further jointly apply for the call.

| | |
|------------------------|---|
| Creation Date | 19 December 2018 |
| Last Update | 24 December 2018 |
| Expiration Date | 01 February 2019 |
| Reference | RDMK20181219002 |
| Public Link | https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/616934ec-03e5-4f01-9392-19d1200e42df |

Details

Description

The project title is: Interconnectivity Model for Smart Water Management - IntoSmartWat

The Project aims to demonstrate in large scale an innovative overarching model of water planning and management in all areas of water use (communal, industry, agriculture, energy generation sector). The model will be based on holistic and integrated technological, environmental, managerial, financial and social approach for creation of a complex and systemic method for the model that will promote a holistic connection among users, supported by:

- 1) modern methodological approaches and tools for: water resources modelling,
- 2) maximal mobilization of alternative water sources (groundwater, rainfall, treated outlet water),
- 3) IT tools and novel software for optimal planning and long-term sustainable management of water resources,
- 4) novel technologies for circular economy applied in communal and industrial waste water treatment, recovery and reuse.

The project will encompass:

- 1) demonstration of interlinked new organizational, functional, communication, technological and business models for interconnection of water users, aimed towards sustainable and effective use and re-use of waters,
- 2) application of new technologies and equipment for improvement of effectiveness of use of water,

- 3) new application of digital techniques and specially designed software tools for water resources smart planning, management and monitoring,
- 4) innovative solutions for use of alternative sources of water for various users.
- 5) demonstration of new business and market models for stimulation of investments in water sector and underpinning new approaches and technologies of interconnection of water users and producers,
- 6) extensive communication with wide community of stakeholders.

Partners profile sought:

- 1) research institutions and innovation centers, in the fields of: communal and industrial waste water treatment technologies, circular economy in water sector and smart and efficient water resources management,
- 2) innovators, designers and manufacturers of circular water technologies,
- 3) engineering design and consultancy companies in water field,
- 4) contractors / Construction / Equipment installation companies,
- 5) water management authorities, water utilities, local / regional authorities,
- 6) operators of potential project demonstration sites,
- 7) business and marketing development institutions,
- 8) software development companies,
- 9) SMEs in water management sector,
- 10) consultancy institutions for EU legal framework in water sector.

The Institute is looking for project partners (R&D institutions, Universities, designers, manufacturers of circular water technologies. Their role would be to contribute to the project objectives thus overarching model of water planning and management in all areas of water use (communal, industry, agriculture, energy generation sector).

- Official call Deadline: 19 February 2019
- Internal deadline for EOIs: 30/01/2019

Stage of Development

Proposal under development

Keywords

Technology

02006006 Construction engineering (design, simulation)

Market

09009001 Conglomerates and holding companies

NACE

M.72.2.0 Research and experimental development on social sciences and humanities

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

Industry SME 11-49

Year Established

1975

Turnover

<1M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Italian

Client Country

Macedonia, The former Yugoslav Republic of

Partner Sought

Type and Role of Partner Sought

The company is looking for R&D institutions, designers and manufacturers of circular water technologies, as well as universities and SMEs that have experience in research projects. The partners sought should have relevant experience, as well as potential and interest for sharing the project objective and innovation focus and for making a significant contribution to reaching the project goals. The potential partners should be associations and individual SMEs engaged

in design and construction, Universities or Educational centers for continuous professional development of engineers. The prospective partners are encouraged to submit proposals for further development of the project concept.

Type and Size of Partner Sought

SME 11-50, University, R&D Institution, SME <10, SME 51-250

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

H2020

Call title and identifier

CE-SC5-04-2019: Building a water-smart economy and society

Coordinator Required

No

Deadline for EOI

01 Feb 2019

Deadline of the Call

19 Feb 2019

Weblink to the Call

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-sc5-04-2019;freeTextSearchKeyword=;typeCodes=1;statusCodes=31094501,31094502;programCode=H2020;programDivisionCode=31047972;focusAreaCode=null;crossCutting>

Project Title and Acronym

Interconnectivity Model for Smart Water Management - IntoSmartWat

Research & Development Request

H2020_ ICT-13-2018-2019-Supporting the emergence of data markets and the data economy

Summary

Spanish ICT development company is looking for partners to join a proposal to the call H2020_ ICT-13-2018-2019 "Supporting the emergence of data markets and the data economy". It aims to create secure and trustable digital data market platforms that will benefit the value chain of the data economy fostering the development of new business models in different sectors. The partners sought are data providers / data platform owners, legal data privacy and compliance experts, data encryption experts

| | |
|------------------------|---|
| Creation Date | 22 November 2018 |
| Last Update | 12 December 2018 |
| Expiration Date | 10 January 2019 |
| Reference | RDES20181121003 |
| Public Link | https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/92f6812c-5166-4e92-aae8-d4636ffaea2d |

Details

Description

Data is considered one of the main assets for any company, specially to SMEs, that acquire great benefits in their business models by being able to access accurate and process data. Many kinds of enterprises and institutions are looking for different ways to harness data, but the creation of data markets and new business opportunities around the data economy is being hampered due to the lack of secure and trustable sharing data methodologies.

Enhancing the awareness of data privacy and secure data sharing techniques across different data platforms can contribute in the value chain of the data economy fostering the development of new business models in different sectors.

Therefore, the main objective of this project (H2020_ ICT-13-2018-2019: Supporting the emergence of data markets and the data economy) is to make accessible these data platforms among the different actors involved. This project aims to create a digital ecosystem for a smart city where all the different players (from citizens who provide this data, to private and public organism from heterogeneous sectors such as energy, health, tourism or government among others) can share these data ensuring its traceability and privacy. These tools will empower the data providers giving them real time information about the use of their data and letting them decide about their usage, fairly rewarding them for their data provided.

This proposed scenario will enable the data consumers (like organisms, SMEs, researchers, etc.) to access the different technologies for data analysis and data processing techniques that

will provide an added value and quality. In addition, the data consumers will have the assurance that all the data complies with all the current legislation in matter of GDPR and with the consent of the data provider.

Fostering the data markets and promoting new business models both for data providers and for data consumers is one of the main goals, so this project needs to incorporate all the different actors from the value chain of data ecosystem. For example, in the health sector, involving from the patient that provides their medical data, the hospital who has the data platform and the health insurance company that consumes that data. This role structure can be replicated to other sectors like tourism, government or energy among others.

The topic ICT-13-2018-2019 "Supporting the emergence of data markets and the data economy" is a single-stage project IA Innovation Action.

The Spanish company leading this project is specialized in all kind of ICT engineering projects (big data, network management, cloud computing, IoT (Internet of Things), AI (Artificial Intelligence) or data analytics) for different sectors.

The company is looking for the following partners:

- Data providers / data platform owners that will be in charge of data extraction.
- Legal data privacy and compliance experts that will assure that the project complies with the GDPR (General Data Protection Regulations).
- Data encryption experts whose role will be to assure the data security and confidentiality.
- Data users from different sectors (health, energy, government, etc.) being encouraged the participation of SMEs.
- ICT integrators in order to gather all the project data communication modules.

The deadline for expressions of interest is 10th january 2019 and the deadline for the project submission is 28th march 2019.

The project duration is estimated in 40 months.

Keywords

Technology

| | |
|----------|--|
| 01003009 | Data Protection, Storage, Cryptography, Security |
| 01003010 | Databases, Database Management, Data Mining |

Market

| | |
|----------|--|
| 02006005 | Big data management |
| 02006007 | Databases and on-line information services |
| 02007002 | Database and file management |

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

- Data providers / data platform owners that will be in charge of data extraction.
- Legal data privacy and compliance experts that will assure that the project complies with the GDPR (General Data Protection Regulations).
- Data encryption experts whose role will be to assure the data security and confidentiality.
- Data users from different sectors (health, energy, government, etc.) being encouraged the participation of SMEs.
- ICT integrators in order to gather all the project data communication modules.

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

H2020

Call title and identifier

ICT-13-2018-2019 Supporting the emergence of data markets and the data economy

Coordinator Required

No

Deadline for EOI

10 Jan 2019

Deadline of the Call

28 Mar 2019

Weblink to the Call

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/ict-13-2018-2019.html>

Research & Development Request

SMEs sought for Call H2020 DT-NMBP-08-2019

Summary

A French University is preparing a proposal for the next H2020 call Real-time nano-characterisation technologies (RIA) DT-NMBP-08-2019 - first stage. The project is focused on characterization of Thin Film Composite Membranes. SMEs with high expertise in Membrane technologies for industrial or environmental processes are sought to join the consortium.

| | |
|------------------------|---|
| Creation Date | 07 December 2018 |
| Last Update | 07 December 2018 |
| Expiration Date | 11 January 2019 |
| Reference | RDFR20181204001 |
| Public Link | https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/35e549eb-ac41-4506-9683-b4f7310a7610 |

Details

Description

The project answers to the specific Call challenge : nanomaterials based products need faster process & quality control to check their regulatory compliances and accelerate their market introduction.

For this, the project aims to develop tools & methods to improve the characterization of Thin Film Composite Membranes (TFCM) employed in industrial or environmental uses as gas separation, gas sensors or CO2 capture technologies. Real time characterization during fabrication process of TFCM is a real challenge for these industries.

Project partners will develop technologies which will be adapted to create tools & methods ready to be installed in industrial environments and guarantee a higher and faster product quality control and quicker market introduction.

The consortium needs to integrate several European SMEs specialized in Membrane technologies as project partners to join forces on R&D tasks with academic teams and also to take part on demonstration/pilots activities.

Advantages and Innovations

Project's outcomes is to develop methods/products to increase the quality of nanobased materials & products in terms of reliability of characterization and accuracy, with an impact to increase the European industrial companies' competitiveness.

Technical Specification or Expertise Sought

Ref: RDFR20181204001

SMEs specialized in Membrane technologies for industrial and environmental processes (know-how, expertise, products & solutions).

Stage of Development

Proposal under development

Comments Regarding Stage of Development

Proposal is under preparation.

First stage proposal (10 pages) for the deadline (22/01/19).

IPR Status

Other

Comment Regarding IPR status

Consortium agreement

Keywords

Technology

05004001

Filtration and Membrane Processes

Market

08001008

Membranes and membrane-based products

NACE

P.85.4.2

Tertiary education

Network Contact

Issuing Partner

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Open for EOI : Yes

Dissemination

Restrict Dissemination to Specific Countries

Belgium, Germany, Greece, Netherlands, Poland, Spain, Switzerland,

Client

Type and Size of Organisation Behind the Profile

University

Year Established

0

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
French

Client Country

France

Partner Sought

Type and Role of Partner Sought

The coordinator looks for European SMEs specialized on Membrane technologies able to act as expertise providers and also to take in charge project's activities as tests, demonstrations, and contribute to design industrial pilots.

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

DT-NMBP-08-2019 - Real-time nano-characterisation technologies (Research & Innovation Action)

Submission and evaluation scheme

2 stages

First stage (10 pages proposal) - 22/01/2019

Anticipated Project Budget

from 4 to 5 M€

Coordinator Required

No

Deadline for EOI

11 Jan 2019

Deadline of the Call

22 Jan 2019

Project Duration

48 week(s)

Weblink to the Call

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/dt-nmbp-08-2019.html>

Research & Development Request

French BigData specialist is looking for academic and IT specialized companies to become partners for their H2020 "Big Data solutions for Energy" call proposal.

Summary

French start-up specialized in Big Data solutions and data intelligence is looking for European partners to complete the building up of the consortium for the H2020 call Big Data Solutions For Energy DT-ICT-11-2019. Mainly searching for academic or R&D structures : University, R&D center, technology transfer centers. The consortium also needs IT architects and integrators, also software developers. But more generally the company would consider all propositions.

| | |
|------------------------|---|
| Creation Date | 15 November 2018 |
| Last Update | 06 December 2018 |
| Expiration Date | 04 February 2019 |
| Reference | RDFR20181112001 |
| Public Link | https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/fc8e5249-b761-444b-8502-ea8e6b23d907 |

Details

Description

French start-up offering consulting, services related to data management and analysis for companies and public authorities; is willing to complete its consortium for the H2020 call "Big data solutions for Energy" DT-ICT-11-2019.

For the moment, the partnership is composed of the Big Data company, their partner who is one of leaders in energy (electricity) supplier and smaller companies engaged in energy transport and distribution. They have also connexions with local authorities who could deploy the pilot locally and work with social building managements authorities for connecting smart energy houses; IT architecture builders and IT companies who could develop necessary software and apps. A smaller energy distributor is also connected to this young consortium.

The consortium is willing to address main objective of the call. The project aims at engaging Big Data and other IT facilities and software available on the market today to improve management, storage and distribution of energy inside an existing ecosystem This pilot should be scalable at different geographic locations and different sizes.

The projects' objective could be put in reality by building a pilot of the analytics toolbox which will develop and support a wide range of energy services. This will lead to optimization of the management of assets connected to the grid (in particular small-scale/renewable electricity generation and those used for demand response) and to the increase of the efficiency and comfort of buildings, and to de-risk investments in energy efficiency.

The French start-up specialized in Big Data knows this is achievable by reliably predicting and monitoring energy savings.

At the same time, the project will contribute to effective integration of relevant digital technologies in the energy sector.

This will lead to more enhanced energy asset management, increasing consumer participation and innovative network management, creating new data-driven business models and opportunities and innovative energy services.

The project should also contribute to increasing the use of renewable energy and increased energy efficiency based on optimised energy asset management, offering access to cheaper and sustainable energy for energy consumers. That's why all parts of the user chain is engaged in the project and a big responsibility is upon the public authorities.

The project would aim to build a new business model or a pilot around actual market industrial partners or including new actors. This pilot should be sustainable on the market and have a proven business strategy.

This is the reason why the actual partnership needs to be enriched, and has to be as logic as possible and sustainable.

Deadline for EOIs : 04/02/2019

Deadline for the call : 02/04/2019

Advantages and Innovations

Optimizing energy sector in Europe by impulsing big data technologies

More enhanced energy asset management

The use of renewable energy

Market scalable pilot for new energy data-driven grids

IT use in energy sector

Keywords

Technology

| | |
|----------|--------------------------------|
| 01003003 | Artificial Intelligence (AI) |
| 01004006 | Environment Management Systems |
| 01004011 | Maintenance Management System |
| 04001004 | Transmission of electricity |
| 04002013 | Smart grids |

Market

| | |
|----------|-------------------------------------|
| 06002003 | Power grid and distribution |
| 06006002 | Metering and monitoring |
| 06008 | Energy Storage |
| 06009 | Energy Distribution |
| 06010001 | Energy for private/domestic housing |

NACE

| | |
|----------|--|
| J.62.0.1 | Computer programming activities |
| J.62.0.2 | Computer consultancy activities |
| J.62.0.3 | Computer facilities management activities |
| J.62.0.9 | Other information technology and computer service activities |

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

Contact Person

Pawel Zebrowski

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Open for EOI : No

Client

Type and Size of Organisation Behind the Profile

Industry SME 11-49

Year Established

0

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
French

Client Country

France

Partner Sought

Type and Role of Partner Sought

Looking for academic partners including Universities, R&D centers specialized in smart grids, smart cities and connected building. These ones could also have expertise in IT and software in order to work on the architecture of the pilot.

Ref: RDFR20181112001

Possible partner might be a consortium leader or coordinator.

The project would also accept network operators, suppliers, independent aggregators, power exchanges, building management and renovation sectors, software integrators/developers to complete the consortium.

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

H2020

Call title and identifier

DT-ICT-11-2019 - Big Data Solutions for Energy
H2020

Submission and evaluation scheme

One stage

Coordinator Required

Yes

Deadline for EOI

04 Feb 2019

Deadline of the Call

02 Apr 2019

Weblink to the Call

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/dt-ict-11-2019.html>

Research & Development Request

H2020-DT-NMBP-03-2019: Companies and R&D centres related to (nano) coatings.

Summary

A Spanish technological centre is preparing an H2020-DT-NMBP-03-2019 proposal that aims to create services for designing and testing nano-enabled surfaces. The sought partners should be companies and R&D centres from different sectors interested in providing new functionalities to their products as well as qualified specialists in standardization and regulation.

| | |
|------------------------|---|
| Creation Date | 17 September 2018 |
| Last Update | 19 December 2018 |
| Expiration Date | 29 May 2019 |
| Reference | RDES20180917001 |
| Public Link | https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/00739eae-20b2-492c-beef-d432a30a88cb |

Details

Description

Industry and society have a growing demand on novel materials based on nanotechnologies for innovative surfaces with specific functionalities. The new technologies are subjected to other factors such as qualification, regulation, cost, compatibility and the need to be applicable around the world. In the most recent years it is obvious that nano-enabled surfaces can be applied in nearly every area.

The Spanish technological centre is a non-profit, private technological centre with large trajectory in international cooperation. The centre has coordinated 19 of the total 35 participated European projects from FP6 to Horizon 2020 including LIFE and ECO-Innovation programs. The main R&D fields where the centre develops its activities are nanotechnology, new materials and advanced-environment technologies.

The centre is preparing a project proposal to the topic NMBP-03-2019: Open Innovation Test Beds for nano-enabled surfaces and membranes. The project will build an innovative open access platform to offer to companies and technological centers, the capabilities, know-how, networks and services required for the development, testing, assessment, upscaling and market exploitation of nanotechnology-based surfaces. For this purpose, multifunctional nano-coatings based on different matrices (organic and inorganic) and active compounds based on nanoparticles will be designed, developed and tested on different substrates and sectors taking in account of the needs of different industry sectors and of the today's market.

The consortium of this project will be composed by around 17 partners including R&D centres

related to the coatings field and, companies from different sectors.

And some pending required partners are:

- Online quality control experts.
- Technologies on application of coatings experts (RTDs and SMEs)
- Qualified specialists in standardizations and regulation for the different properties (anticorrosion, abrasion resistance, mechanical resistance, etc.).
- Industrial partners interested in new functionalities (improved scratch and abrasion resistance , improved corrosion, super hardness, control reflectivity, self-cleaning, antimicrobial, etc.).

Deadlines:

Official deadline for the call: 22/01/2019

Deadline for expressions of interest: 30/11/2018

Anticipated duration of the project: 208 weeks

Stage of Development

Proposal under development

Keywords

Technology

| | |
|----------|--|
| 02002002 | Coatings |
| 02003006 | Prototypes, trials and pilot schemes |
| 02007015 | Properties of Materials, Corrosion/Degradation |
| 02007024 | Nanomaterials |

Market

| | |
|----------|--|
| 08001023 | Other chemicals and materials (not elsewhere classified) |
| 08006 | Industrial Services |

NACE

| | |
|----------|---|
| C.20.3.0 | Manufacture of paints, varnishes and similar coatings, printing ink and mastics |
| M.71.2.0 | Technical testing and analysis |

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

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Open for EOI : No

Dissemination

Relevant Sector Groups

Nano- and Microtechnologies

Client

Type and Size of Organisation Behind the Profile

R&D Institution

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

- Type of partner sought:
RTDs, companies, Universities

- Specific area of activity of the partner:

- * Experts in on line quality control.
- * RTDs and SME with expertise in technologies of application of coatings.
- * Qualified specialists in standardizations and regulation for the different properties (anticorrosion, abrasion resistance, mechanical resistance, etc).
- * Industries interested in new functionalities (improved scratch and abrasion resistance , improved corrosion, super hardness, control reflectivity, self-cleaning, antimicrobial, etc..)

- Task to be performed:
Contribute in the development of the project tasks.

- EU / International project experience:
Appreciated, but it is not compulsory.

Type and Size of Partner Sought

SME 11-50, University, 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

H2020-DT-NMBP-03-2019: Open Innovation Test Beds for nano-enabled surfaces and membranes (IA)

Coordinator Required

No

Deadline for EOI

29 May 2019

Deadline of the Call

21 Jul 2019

Project Duration

204 week(s)

Weblink to the Call

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/dt-nmbp-03-2019.html>

Research & Development Request

SME Instrument Phase II - A Spanish company is looking for partners to implement a pilot around an Internet of Things water device

Summary

A Spanish SME is looking for a European company to cooperate in an R&D project aiming at setting a series of demonstrative tests of Internet of Things (IoT) water devices. The proposal will be presented at SME Instrument Phase II call. The partner sought should be a facilitator for the implementation of the technology in several sites. After the project, the company should be interested in license or commercial agreement.

| | |
|------------------------|---|
| Creation Date | 05 November 2018 |
| Last Update | 18 December 2018 |
| Expiration Date | 15 January 2019 |
| Reference | RDES20181105002 |
| Public Link | https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/d0522369-a025-4520-a264-fefd168f89c9 |

Details

Description

R&D engineering SME (<10 employees) company specialized in product development and strategy consultancy for technological businesses that creates products based on innovation, efficiency and simplicity for customers and several sectors. On the engineering side, their activity includes mechanical & electronic engineering, product & process design, packaging design, prototyping, CE marking management and commercial product design. They own the Young Innovative Company and Technology-based Innovative Company certificates as proof of the quality of our work.

The project relates to their patented technology, which aims at creating more sustainable housings, businesses and people. The main purpose of the technology is to help reduce the amount of water needed every time hot water wants to be consumed. As it is widely known, when the user wants hot water, there is a certain amount of cold drinking water that must be wasted before the water comes hot. They thought it should not be that way.

This technology is already in the Spanish market in a basic version. What they want to do now is creating an evolution based on notably increased connectivity and functions towards the IoT/Smart City market.

This technology is nowadays using RF to communicate between modules, but it is not still

connected to the internet of things or recording data for users and smart cities administrations later usage. The main purpose of this project is to develop this connectivity feature and some relevant functions within the device in order to use it as an IoT element ready to market take-up. For that objective, the technology should undergo a series of processes:

- research and design
- prototyping
- performance verification and testing
- development of pilot lines
- validation por market replication
- scaling-up

On a general basis, the project will consist on:

- CONSORTIUM: Initial description of the design requirements and implementation opportunities.
- LEADER: Design and creation of prototypes for the pilot.
- PARTNER: Pilot configuration. Installation of the prototypes.
- PARTNER: On-site follow up of the prototypes functioning.
- LEADER: Remote follow up of the prototypes functioning.
- CONSORTIUM: Results analysis.
- LEADER: Modifications. Re-desing.
- CONSORTIUM: Final validation.
- LEADER: Scale-up analysis. Manufacturing pilot.
- LEADER: Final device desing. CE marking.
- CONSORTIUM: Results dissemination.

Thus, at the end of the project, the technology will be sufficiently developed and tested so that the manufacturing processes permit a scalable and replicable business for the companies in the project, a measurement method for environmental impact, a society awareness tool for water usage and a platform for companies and administrations to improve smart city planning and water resources distribution.

The company is interested in another SME (>50 employees) or MNE (Multinational Enterprise) with interest in developing the IoT device pilot and future manufacturing, license or commercial agreement in several European regions (mainly, Germany, France, UK, Sweden. Other areas might be considered). The partner participating should have at least 5 years of expertise in the field of construction, installation, efficiency or related. The potential to become a technical or commercial local partner after the project results will be taken into account for partner selection.

The deadline for expressions of interest is the 15th of January 2019, as the are planning to submit the project proposal at the cut-off date of the 13th of February 2019.

The interest of the company is starting the project as soon as possible after the deadline. For a proper collaboration workplan synchronization, April-May 2019 is acceptable.

Advantages and Innovations

The current technology is based on up to 5 different modules that complement each other in order to create a temporary on demand recirculation cycle inside the house/business using its existing plumbing installation. The user triggers the cycle using an activator, which also shows when hot water is ready at the desired bathroom or kitchen where it is going to be used. As it is made of different modules, it has the flexibility to adapt to different kinds of installations and users, just by adding the number and type of modules needed in each case. More over, once a layout of this technology modules has been settled, the configuration and functions can increase during its lifecycle, adding new modules at anytime later.

The new evolution to be developed during the project will be the first IoT domestic water controlling device in the world. Besides the activation and temperature measurement, the new device will control the amount of water saved in every use, so the user knows when Return on Investment (ROI) happens. Another important function is that the cycle will trigger automatically (so, heating the installation) when water inside the pipes is about to reach the freezing temperature, which is dangerous for the safety of the plumbing installation and the users. If there is a leakage in one of the pipes or a tap has been left turned off, the device will allow the user to cut the flow of water immediately through its smartphone.

These and some other features will be implemented during the pilot to be validated, and then, included into the final product design.

This innovation is registered by patent.

IPR Status

Patents granted

Keywords

Technology

| | |
|----------|--|
| 01003022 | Smart Appliances |
| 01003025 | Internet of Things |
| 02006001 | Materials, components and systems for construction |
| 03010 | Household Goods & Appliances |
| 10004012 | Water in Buildings |

Market

| | |
|----------|---|
| 07004003 | Home furnishing and housewares |
| 08002003 | Process control equipment and systems |
| 09004004 | Hardware, plumbing supplies |
| 09007002 | Manufacture of construction materials, components and systems |
| 09007004 | Engineering and consulting services related to construction |

NACE

| | |
|----------|--|
| C.26.4.0 | Manufacture of consumer electronics |
| C.27.5.1 | Manufacture of electric domestic appliances |
| M.71.1.2 | Engineering activities and related technical consultancy |
| M.72.1.1 | Research and experimental development on biotechnology |
| M.74.1.0 | Specialised design activities |

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

Ref: RDES20181105002

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Open for EOI : Yes

Dissemination

Relevant Sector Groups

Sustainable Construction

Restrict Dissemination to Specific Countries

Austria, Belgium, Canada, Denmark, France, Germany, Italy,
Japan, Netherlands, Norway, Portugal, Sweden, Switzerland,
UnitedKingdom, USA,

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

0

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English
Spanish

Client Country

Spain

Partner Sought

Type and Role of Partner Sought

The partner sought should be a facilitator for the implementation of the technology in several sites (whole buildings, individual houses or businesses) that should provide mainly: access to the site where the installation and measurements are to be made; installation of the modules in its different configurations; collaborative tracking of the experiments by visits to the sites, questionnaires to the users/customers, resolution of incidents, etc.; analysis of the technology and its compliance with local building and installation norms; analysis of modifications to be made in the technology in order to: solve problems, improve efficiency or applicability, comply with local directives and norms, addition of functions as a result of user experience; an other related tasks.

The profile of such partner should be one related to the building, installation or real estate sectors (construction or installation companies, real estate agencies) or that operates as a professional services company for such sector (like engineers, architects, home automation companies, efficiency analysts, etc.). Partner can be private or public: like City Halls, clusters and entities of the sort that might be interested in participate. Partner ought to have the capabilities to accomplish the described tasks individually or in collaboration with third parties whom it will be responsible for.

Type and Size of Partner Sought

>500 MNE, 251-500, SME 51-250

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

Innovation in SMEs

Call title and identifier

SME Instrument Phase II

Submission and evaluation scheme

Single-stage submission

Anticipated Project Budget

750,000€

Coordinator Required

No

Deadline for EOI

15 Jan 2019

Deadline of the Call

13 Feb 2019

Project Duration

82 week(s)

Weblink to the Call

<https://ec.europa.eu/programmes/horizon2020/en/h2020-section/sme-instrument>

Research & Development Request

H2020 FET-Open Challenging Current Thinking: Co-development of humanoid/android bipedal robot with advanced intelligent robotic systems

Summary

A UK company is part of a consortium applying for funding via H2020 FET-Open Challenging Current Thinking to co-develop a new humanoid robot with an advanced level of adaptive and intelligent systems. They are seeking EU companies or universities with expertise in robot hardware and control systems, to co-develop the software/hardware and robots, via research development agreement, to complete their consortium.

| | |
|------------------------|---|
| Creation Date | 14 December 2018 |
| Last Update | 20 December 2018 |
| Expiration Date | 11 January 2019 |
| Reference | RDUK20180822001 |
| Public Link | https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/fec1ed3d-5581-48a5-b96a-432d04a2bb64 |

Details

Description

Current development of robots focuses on defining the complex relationship between perception and action, as a binary and reactive phenomenon.

This UK company has a new approach to robotics, that robotic systems represents a significant departure from the conventional way of thinking about robots. The UK's software and systems define perception as the goal of a robot's behaviour. Action in this instance is dynamically varied as a means to achieving these goals.

This fundamentally overturns the current thinking within robotics and Artificial Intelligence and leads to a radically different architecture for robotics systems, and has led to the UK company developing systems that are inherently adaptive, computationally-lightweight, purposeful and scaleable to advanced applications.

The UK company is hoping to incorporate these new systems within a new humanoid/android bipedal robot. That is, a bipedal humanoid robot that could stand up and walk and perform a number of tasks such as picking up objects, opening doors and using tools.

The objective would be achieved through a number of different developmental stages to incrementally increase the sophistication of the capabilities of the system. For example, the

humanoid capabilities could be developed by using an existing system such as the Nao robot ([https://en.wikipedia.org/wiki/Nao_\(robot\)](https://en.wikipedia.org/wiki/Nao_(robot))), robot arms, lower-body walking frame and upper-body torso before a full humanoid system is deployed.

Additional robotic systems could be developed on the road to the main goal, such as robotic rovers, balancing robots and multi-legged robots. Each of the robots produced at the developmental stages would be fully-functional robotic applications and products in their own right.

Although the end game is to produce real robotic systems a significant amount of the development could be performed in simulated environments.

As part of the overall development there would also be developed unique processes and techniques for machine learning and computer vision, based upon the PR concepts and principles, that would fundamentally challenge the status quo.

Their current consortium includes UK company, a major UK university and a UK project management company and additional partners via responses to this profile.

They are seeking to complete their consortium with an additional EU partner with expertise in the following area to help develop the software and hardware of the robots.

Robot Hardware

The company intends to develop a series of incremental robotics systems with the objective of a general purpose robot. They are looking for potential partners who could provide, or build, robot hardware systems as follows robot arms, balancing robots, multi-legged (spider) robots, lower-body walking frame, upper-body torso, robot head, vision systems and a full, walking humanoid robot system. They are also seeking partners with expertise in control systems.

They are seeking collaboration via research development agreement.

The deadline for EOIs in this profile is 11 January 2018

The deadline for the call is 19 January 2019

Keywords

Technology

| | |
|----------|--|
| 01001001 | Automation, Robotics Control Systems |
| 01003003 | Artificial Intelligence (AI) |
| 01003005 | Computer Hardware |
| 01003006 | Computer Software |
| 01003012 | Imaging, Image Processing, Pattern Recognition |

Market

| | |
|----------|--|
| 02002003 | Graphics software |
| 02007001 | Systems software |
| 02007016 | Artificial intelligence related software |
| 02007020 | Artificial intelligence programming aids |
| 02007021 | Other Artificial intelligence related |

NACE

| | |
|----------|---|
| C.26.1.1 | Manufacture of electronic components |
| C.26.2.0 | Manufacture of computers and peripheral equipment |
| J.62.0.1 | Computer programming activities |
| J.62.0.9 | Other information technology and computer service activities |
| M.72.1.9 | Other research and experimental development on natural sciences and engineering |

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

Contact Person

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Open for EOI : Yes

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

0

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English

Client Country

United Kingdom

Ref: RDUK20180822001

Partner Sought

Type and Role of Partner Sought

Type: Industry/Academia

Activity of partner: Expertise or experience (for industry or academia) in robot hardware and/or control systems

Specific role of partner sought: Activities included in the co-development of a new android robot, providing robot hardware and support with control systems.

Type and Size of Partner Sought

SME 11-50, University, R&D Institution, SME <10, >500 MNE, 251-500, SME 51-250, >500

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

Future and Emerging Technologies

Call title and identifier

Open Challenging Current Thinking

Submission and evaluation scheme

Multiple cut-off

Anticipated Project Budget

€3 million

Coordinator Required

No

Deadline for EOI

11 Jan 2019

Deadline of the Call

24 Jan 2019

Project Duration

104 week(s)

Weblink to the Call

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/fetopen-01-2018-2019-2020.html>

Project Title and Acronym

RAPTA - Artificial Human Android

Research & Development Request

H2020 SFS-04-2019-2020: Integrated health approaches and alternatives to pesticide use. Looking for coordinator and partners active in microbiological, biochemical and ecological research

Summary

*Armenian R&D organization active in the field of biotechnology involved in the development of the technology for obtaining biologically active compounds, is going to submit project proposal under H2020-SFS-2018-2020 call. The project proposes melaninogenic strains *Bacillus thuringiensis* to obtain bioinsecticidal preparation and bacterial melanin that are safe for the environment. The organization is looking for partners active in microbiological, biochemical and ecological research.*

| | |
|------------------------|---|
| Creation Date | 21 December 2018 |
| Last Update | 29 December 2018 |
| Expiration Date | 10 January 2019 |
| Reference | RDAM20181210001 |
| Public Link | https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/2bc96d78-ad44-48be-b05e-4e92622ccea2 |

Details

Description

The use of increasing dosage of mineral fertilizers and pesticides for agricultural productivity has resulted in hazardous environmental contamination.

The pesticides used in agriculture and forestry are toxic not only for pests, but also for humans, animals, birds, fishes and even for useful insects and this can lead to hazardous environmental contamination.

Currently the use of biological insecticides, which are completely free of specific drawbacks of chemical control and simultaneously have special target effect on pests, is the most efficient and environmentally safest measure against pests for the protection of plants.

Based on insecticidal strains *Bacillus thuringiensis* the obtained melanin-synthesizing mutants retain their insecticide activity.

The technologies for obtaining both bacterial melanin (BM) and bioinsecticidal preparation on the basis of the obtained melaninogenic strains have been developed. The safety of BM and bioinsecticidal preparations to environment has been demonstrated. The investigation of BM properties has indicated its biological high activity. The experiments of in vivo and in vitro systems implemented on various plants (vegetables, melons, wood, ornamental plants, etc.) have resulted in the confirmation that it is a plant growth stimulator of auxin-like effect.

In comparison with other applied growth stimulators BM surpasses them in a number of

properties: it is water-soluble, rapidly decomposes in the soil, has prolonged effect, is efficient in very low concentrations and is low cost, which have become a prerequisite for its application as a growth stimulator on various plants.

One of the characteristic signs of melanin is its photoprotective activity, which protects the spores and crystals of insecticide strains from damaging effects of UV-radiation and insolation. The experiments in laboratory and field conditions on various agricultural pests (gold-beetle, cabbage and apple moths, goldtail, potato beetle, etc.), as well as on several types of mosquitoes (including malarial mosquitoes) have shown that the insecticidal activity of the obtained melaninogenic mutants *B. thuringiensis* distinctly increases as compared to the parent strains.

The obtained BM and bioinsecticidal preparations are highly effective and are low cost.

The proposed project aimed at the use of the obtained melaninogenic highly efficient insecticidal strains with a wide spectrum of action on pests and study of the effect of bacterial insecticidal preparations on the microflora and enzymatic activity of soils after spraying. The development of fermentative media is also important to obtain BM and insecticide preparation containing cheap raw materials.

Simultaneous synthesis of two biologically active substances - melanin and insecticidal toxins in a single strain will provide the profitability of their production, as well as future commercial success of these preparations for their application in agriculture.

Already formed consortium includes one SME partner from Greece, who will be in charge of testing the obtained biological active compound on various vegetable cultures.

The official deadline for the call is 23th January, 2019. The deadline for expressions of interests is 21st December, 2018. The duration of the Project is 3 years.

The consortium is looking for Coordinator and partners from R&D institutions and SMEs specialized in the field microbiological, biochemical and ecological research to study the effect of bioinsecticidal preparation on plants and estimate its bio-safety for environment, to work on the identification of insect pests subjected to the effect of bioinsecticidal preparations based on melaninogenic strains *B.thuringiensis*.

Advantages and Innovations

Based on insecticidal strains *Bacillus thuringiensis* melanin-synthesizing mutants obtained by us retain their insecticide activity.

The technologies for obtaining both bacterial melanin (BM) and bioinsecticidal preparation on the basis of the obtained melaninogenic strains have been developed. The safety of BM and bioinsecticidal preparations to environment has been demonstrated.

The experiments of in vivo and in vitro systems implemented on about 70 plants (vegetables, watermelons, wood, ornamental plants, etc.) have resulted in the confirmation that it is a plant growth stimulator (Fig. 1-7 in the attachment). BM significantly increased crop yield of plants (20-50%) and their resistance to environmental abiotic factors.

In comparison with other applied growth stimulators BM surpasses them in a number of properties: it is water-soluble, rapidly decomposes in the soil, has prolonged effect, is efficient in very low concentrations and is low cost.

One of the characteristic signs of melanin is its photoprotective activity, which protects the spores and crystals of insecticide strains from damaging effects of UV-radiation and insolation. The results of experiments in laboratory and field conditions showed that the insecticidal activity of melaninogenic mutants of *B. thuringiensis* towards pests distinctly increased as compared to the parent strains due to the photoprotective effect of the synthesized melanin.

Simultaneous synthesis of two biologically active substances - melanin and insecticidal toxins in a single strain will provide the profitability of their production, as well as future commercial success of these preparations for their application in agriculture.

Technical Specification or Expertise Sought

R&D institutions and SMEs specialized in the field microbiological, biochemical and ecological research to work on the identification of insect pests subjected to the effect of bioinsecticidal preparations based on melaninogenic strains *B.thuringiensis*.

Stage of Development

Proposal under development

IPR Status

Patents granted

Comment Regarding IPR status

Armenian patent is granted

Keywords

Technology

| | |
|----------|--|
| 06002008 | Microbiology |
| 06006011 | Fermentation |
| 07001006 | Pesticides |
| 07001007 | Precision agriculture |
| 08002002 | Food Microbiology / Toxicology / Quality Control |

Market

| | |
|----------|--------------|
| 04010 | Microbiology |
| 05009004 | Plant health |
| 07003002 | Health food |

NACE

| | |
|----------|---|
| C.20.2.0 | Manufacture of pesticides and other agrochemical products |
|----------|---|

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

Contact Person

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Email

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Open for EOI : Yes

Dissemination

Relevant Sector Groups

Environment

Client

Type and Size of Organisation Behind the Profile

R&D Institution

Year Established

1983

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English
Russian
French

Client Country

Armenia

Partner Sought

Type and Role of Partner Sought

The organization is looking for R&D institutions and SMEs who would work on the identification of insect pests subjected to the effect of bioinsecticidal preparations based on melaninogenic strains *B.thuringiensis*.

It is also in the research of ecological aspects after application of bioinsecticidal preparations on the basis of melaninogenic strains:

1. Determination of the shelf life of melaninogenic strains on plants and in soils after their use.
2. Determination of the effect of bioinsecticidal preparations on the microflora and enzymatic activity of soils after their use in a specific region.

Type and Size of Partner Sought

SME 11-50,R&D Institution,SME <10,SME 51-250

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy

Call title and identifier

SUSTAINABLE FOOD SECURITY H2020-SFS-2018-2020

H2020 SFS-04-2019-2020: Integrated health approaches and alternatives to pesticide use

Submission and evaluation scheme

RIA Research and Innovation action, two-stage

Coordinator Required

Yes

Deadline for EOI

10 Jan 2019

Deadline of the Call

23 Jan 2019

Weblink to the Call

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/sfs-04-2019-2020.html>

Project Title and Acronym

New highly efficient insecticidal preparations on the basis of melaninogenic *B. thuringiensis* strains

Research & Development Request

UK university seeks agricultural partners for H2020 call CE-RUR-08-2018 Closing nutrients cycle- bio-fertiliser solutions from animal manures and crop waste resources.

Summary

The H2020 CE-RUR-08-2018 project aims to develop an easy to operate, self-sustaining, field demonstrator reactor system, where production can be up-scaled to manufacture affordable, sustainable, enriched biochar, creating a commodity of value from potentially waste organic materials. Partners are sought from agritech and arable farming associations, but also poultry farms who would be an ideal source for animal manure. Manufacturers and wholesalers of crop fertilisers are also required.

| | |
|------------------------|---|
| Creation Date | 10 December 2018 |
| Last Update | 10 December 2018 |
| Expiration Date | 10 January 2019 |
| Reference | RDUK20181210001 |
| Public Link | https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/8d70b165-21c4-405c-b190-a2dd729de84d |

Details

Description

The proposal is under development and led by a UK university and already has an industrial partner involved.

Current methods of intense, fossil-fuel-dependent farming, along with the increasing use of minerals and chemicals, are costly, unsustainable, polluting, and damaging to health and the environment.

Production of mineral fertilisers requires the equivalent energy intensity of 5 litres of diesel fuel, for each tonne produced.

Mineral fertilisers leach into water courses and lakes creating blooms of blue green algae, and toxins harmful to humans and animals. Recent research carried out in Australia (New South Wales) has revealed degenerative neurological conditions connected with activities affected by such environments. The European Union, under the vision of a circular economy, has highlighted the challenges and quantified objectives for change under the new fertiliser regulations.

The potential solution formulated by the project is the up-scaled production of enriched biochar, and the project lead sees considerable business opportunities in this area adding value to the economy of the UK, and the EEA.

Soil amendment using biochar has been the subject of many research programmes, to quantify further its known abilities. The material output is the product of thermally treating selected biomass, of a known moisture content, in a controlled low oxygen atmosphere under slow pyrolysis process.

This process greatly enlarges the pore sizes of the resulting material, increasing its surface area manifold, so acting as a sponge to hold water and nutrients for a slower release. Soil is conditioned by turning acidic into alkaline conditions, enabling the soil to be more easily penetrable for root growth. The potential exists to sequester carbon, along with the abilities of water and nutrient retention, so limiting parched soils, and excessive run off, due to occasions of heavy rainfall.

There is already an industrial partner in this consortium and their objective is to prove through a novel new design the development of an easy to operate, self sustaining, field demonstrator reactor system, where production can be up-scaled to manufacture affordable, sustainable, enriched biochar, creating a commodity of value from potentially waste organic materials.

This project and developed systems for sustainable, volume production of enriched biochar, will demonstrate the following:

1. Potential of scaling up production
2. Efficiency of farm scale equipment,
3. Longevity and reliance of production equipment,
3. Consistency of product quality,
4. Environmental compliance of the process
5. Operability in rural areas.

Partners are sought from agritech and arable farming associations, but also poultry farms who would be an ideal source for animal manure required in sub topic B of this project.

Manufacturers and wholesalers of crop fertilisers are also required.

EOI Deadline: 10th January 2019

Application Deadline: 23rd January 2019

Advantages and Innovations

Development of an easy to operate, self-sustaining, field demonstrator reactor system, where production can be upscaled to manufacture affordable, sustainable, enriched biochar, creating a commodity of value from potentially waste organic materials.

Addressing the challenge of bio-methane emissions to Atmosphere from bio degrading organic materials.

Demonstrating the efficiency of farm scale equipment and longevity and reliance of production equipment.

Assuring the consistency of product quality, environmental compliance of the process and its operability in rural areas.

Technical Specification or Expertise Sought

Expertise sought from the following types of organisations:

- Agritech/ Arable farming associations.
- Poultry Farms (Ideal source of animal manure feedstock for this subtopic B).
- Manufacturers/ wholesalers of crop fertilisers.

Stage of Development

Proposal under development

Keywords

Technology

| | |
|----------|------------------------------------|
| 07001001 | Agriculture Machinery / Technology |
| 07001003 | Biocontrol |
| 07001004 | Crop Production |

Market

| | |
|----------|---|
| 08003007 | Other industrial equipment and machinery |
| 08006001 | Process control and logistics |
| 09005 | Agriculture, Forestry, Fishing, Animal Husbandry & Related Products |

NACE

| | |
|----------|--------------------------------------|
| A.01.1.9 | Growing of other non-perennial crops |
| A.01.2.9 | Growing of other perennial crops |
| A.01.3.0 | Plant propagation |
| A.01.5.0 | Mixed farming |

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

Contact Person

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Email

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Open for EOI : Yes

Dissemination

Relevant Sector Groups

Agrofood
Bio Chem Tech
Environment
ICT Industry and Services

Restrict Dissemination to Specific Countries

France, Germany, Poland, Spain, United Kingdom,

Client

Type and Size of Organisation Behind the Profile

University

Year Established

1835

Turnover

10 - 20M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
German

Client Country

United Kingdom

Partner Sought

Type and Role of Partner Sought

Target Countries:

UK
France
Germany
Spain
Poland

Organisation Types:

- Agri and Arable Farms
- Poultry Farms who can supply animal manure for sub topic B
- Manufacturers of crop fertilisers
- Wholesalers of crop fertilisers

Objectives and roles from partners sought:

- Potential of scaling up production
- Efficiency of farm scale equipment,
- Longevity and reliance of production equipment,
- Consistency of product quality,
- Environmental compliance of the process
- Operability in rural areas.

Type and Size of Partner Sought

SME 11-50,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

Closing nutrient cycles - CE-RUR-08-2018-2019-2020

Submission and evaluation scheme

Single-stage

Anticipated Project Budget

6 Million Euros

Coordinator Required

No

Deadline for EOI

10 Jan 2019

Deadline of the Call

23 Jan 2019

Weblink to the Call

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/ce-rur-08-2018-2019-2020.html>

Project Title and Acronym

RURAL RENAISSANCE/ H2020-RUR-2018-2020