Profile Status: Published

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	20 November 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 avaliable 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 responsability 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

Phone Number

+48 91 449 43 64

Email

pzebrowski@zut.edu.pl

Open for EOI : Yes

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.

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

Profile Status: Published

Research & Development Request

French SME specialized in rapid detection of enzyme activities is looking for academia, industrial and end user partners to submit a project under H2020-CE-BIOTEC-05 call on environmentally friendly solutions for managing plastic mixture waste

Summary

A French SME developing fluorogenic reagents for rapid detection of enzyme activities is looking for partners for a project under CE-BIOTEC-05 call "microorganism communities for plastic bio-degradation". The objective is to develop environmentally friendly solutions for managing the waste of plastics mixtures thanks to microorganisms. The French SME and their academic background organisation are looking for academia, industrial, end user (waste valorization) partners to complete the consortium

Creation Date	20 November 2018
Last Update	21 November 2018
Expiration Date	20 December 2018
Reference	RDFR20181120001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/9e2ea3e0-e01f-4561-a0df-05a642a40b86

Details

Description

The objective of the project under construction is to develop environmentally friendly and sustainable solutions for managing the waste of plastics mixtures based on the use of communities of microorganisms with a set of complementary enzymes. The enzymes may be native of engineered using state of the art biotechnologies.
The microbial organisms will turn plastic mixtures into chemical constituents facilitating mineralisation, composting of otherwise recalcitrant and toxic polymers and facilitating production of high value products.
The consortium is under constitution, with a renowned higher education and academic structure and an SME - both French. Since the call is meant to enhance collaboration with China, contacts are already ongoing with potential Chinese partners .
The consortium is looking for further European competencies in the fields of micro-organism banks, Directed Evolution, Droplet expertise, Analysis and Industrial process development (plastic degradation), Valorisation of PET plastic waste, Biorecycling.

The project will be submitted into the CE-BIOTEC-05 topic "microorganism communities for plastic bio-degradation" (RIA - "research and innovation action" scheme) with the deadline:05/03/2019.
Deadline for expression of interest: 20/12/2018

Stage of Development

Proposal under development

IPR Status

Patents granted

Keywords

Technology

06002002	Cellular and Molecular Biology
06002003	Enzyme Technology
06002004	Protein Engineering
06002005	Genetic Engineering
06002009	Molecular design

Market

08001006	Processes for working with plastics
08004002	Chemical and solid material recycling
08004004	Other pollution and recycling related

NACE

M.72.1.1	Research and experimental development on biotechnology

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

Contact Person

Pawel Zebrowski

Phone Number

+48 91 449 43 64

Email

pzebrowski@zut.edu.pl

Open for EOI : Yes

Dissemination

Relevant Sector Groups

Bio Chem Tech
Environment

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

2018

Already Engaged in Trans-National Cooperation

No.

Experience Comments

The SME is leading the partner search , then the higer education and research structure will take the lead on the proposal preparation and will be the coordinator.

Languages Spoken

English
German
French

Client Country

France

Partner Sought

Type and Role of Partner Sought

Looking for partners, either academic or industrial or end users, specialized in:
- microfludics (microencapsulation of bacteria, droplet-based microfluidic screening, bacterial emulsion, etc.)
- micro-organism bank (with microorganismes collected in contamineted soil, waste soil, exotic microorganism, marine micro organismes, contact with plastic waste, eco/environnemental microbial bank, collected in leaf and branch compost, microorganismes with cutinase activity, bacteria, fungi, etc.)
- directed evolution (enzyme engineering, protein engineering, enzymology, cutinase activity expertise, genetic engineering, mutagenesis expertise, recombinant DNA technology)
- expertise in polymer degradation/biodegradation (bio-deterioration/bio-fragmentation),

depolymerisation, polyesterase, lipase, plateforme of cutinase and lipase research
- Valorisation of plastic PET waste (collected waste PET/sorted by type/ regenerated/ grinding/ washing and extrusion of PET), industrial production of flakes of PET, plastic recycling industrial players, biosourced plastics, plastic biorecycling processes

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

CE-BIOTEC-05-2019 Microorganism communities for plastics bio-degradation

Submission and evaluation scheme

RIA - Research and Innovation Action
Single Stage

Coordinator Required

No

Deadline for EOI

20 Dec 2018

Deadline of the Call

05 Mar 2019

Project Duration

156 week(s)

Weblink to the Call

https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/ce-biotec-05-2019.html

Profile Status: Published

Research & Development Request

Turkish university is seeking research cooperation agreements for HORIZON2020 MSCA Cofund program CoCirculation2

Summary

A Turkish university is looking for research cooperation agreements and is offering research fellowships in the fields of agricultural, pharmaceutical, medical and computer sciences with researchers having technical skills for the development of new scientific methods and innovative product prototypes in the related fields. The aim is to apply for the H2020 MSCA Co-Fund program CoCirculation2.

Creation Date	31 August 2018
Last Update	29 November 2018
Expiration Date	27 September 2019
Reference	RDTR20180809001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/b2a16546-5166-439d-a7e8-5e6b431f9727

Details

Description

A Turkish university is looking for research cooperation agreements in the following topics:
1.Traditional and complementary medicine applications: medicinal plants, seed technologies, extraction of bioactive compounds, molecular biology and biotechnology, pharmaceutical formulations,
2. Renewable energy resources, forest ecology, soil&water protection
3. Composite materials, recycling of agricultural and industrial waste materials,
4. Deep learning, Quantum computing/Grover's search algorithm, DNA encryption, DNA data storage, artificial intelligence,
5. Nursing informatics, health informatics, embedded systems in biomedical device technologies
6. Other cutting edge science technologies can be offered by the candidate fellows.

The aim is to apply for a H2020 MSCA Co-Fund program called "CoCirculation2". The programme will be executed by the Science Fellowships and Grant Programmes Department (BİDEB) within Turkish Scientific and Technological Research Council (TÜBİTAK) co-funded by European Commission Horizon 2020 Marie Skłodowska-Curie Actions Cofund program “Co-Funded Brain Circulation2 Scheme (CoCirculation2)”.
Eligibility criteria for the applicants are as follows:
They must be Experienced Researchers, i.e. researchers who, at the time of the relevant deadline for submission of proposals, are in possession of a doctoral degree or have at least

four years of full-time equivalent research experience. Researchers may be of any nationality or age.
Researchers must comply with the mobility rule that applies to them, either the standard mobility rule or the flexible mobility rule.
Standard mobility rule: ERs must be non-residing in Turkey for more than 12 months in the three years prior to the relevant deadline for submission of proposals. Short stays which does not exceed 20 days in total in a year and compulsory national service are not counted. This standard mobility rule applies to all applicants not being eligible for the flexible mobility rule.
Flexible mobility rule: ERs must not have resided or carried out the main activity (work, studies, etc.) in Turkey for more than 36 months in the 5 years immediately before the call deadline. Short stays which does not exceed 20 days in total in a year and compulsory national service are not counted.
The flexible mobility rule will apply to four groups of researchers:
Reintegration applicants: For applicant wishing to benefit from the flexible mobility rule for reintegration, applicant must be a long-term resident (Long-term residence means a period of full-time research activity in the Turkey at least 5 consecutive years.) of Turkey. Applicants must in addition to this rule also move or have moved directly from a non-EU country to Turkey.
Applicant with refugee status: To benefit from the flexible mobility rule, researchers must have refugee status in accordance with the Turkish regulatory system at the time of the relevant deadline for submission of proposals, and principles laid down by the Geneva Convention.
Career restart applicants: To benefit from the flexible mobility rule, applicants must in addition to this rule also have had a career break in research, i.e. they must not have been active in research for at least 12 months prior to the relevant deadline for the submission of proposals.

Advantages and Innovations

The CoCirculation2 funding program offers fellowships to researchers willing to with the equivalent conditions of H2020 MSCA Individual Fellowships program. All fellowships must have an international component and intersectoral and interdisciplinary elements in each project are highly encouraged. 6 months of secondment to academic or non-academic institusions are possible.
The Turkish host university welcomes researchers from all disciplines. The university is an equal opportunity employer. Considering the Euro/TL currency exchange rates, the quality of life with the offered funding is more than satisfactory.
The Turkish university has a Technopark and Technology Transfer Offce (TTO) supporting industry collaborations and patent applications.

Technical Specification or Expertise Sought

The research fellows applying for the research cooperation agreements are expected to have sufficient academic background in their related field and technical expertise to carry out research activities independently. The candidates of the fellowship program are also expected to participate in general laboratory management, training of graduate students in the project and writing scientific papers and reports.

Stage of Development

Project already started

Comments Regarding Stage of Development

Research projects in some of the topics have already started while some topics are open to suggestions from research fellows. The final topics of the proposals in the framework of the research cooperation agreements will be determined by both the applicant and the professors from host university.

IPR Status

Design Rights,Trade Marks,Exclusive Rights,Copyright,Other

Comment Regarding IPR status

The intellectual property rights of the research outputs to be completed under the host university will be owned by the host university. Any revenue generated by licencing the patents or know-how will be shared among the inventors.

Keywords

Technology

01003003	Artificial Intelligence (AI)
02007005	Composite materials
06	BIOLOGICAL SCIENCES
06001	Medicine, Human Health
07001	Agriculture

Market

02007	Computer Software
05	MEDICAL/HEALTH RELATED
05007002	Pharmaceuticals/fine chemicals
08001004	Fibre-reinforced (plastic) composites
09005	Agriculture, Forestry, Fishing, Animal Husbandry & Related Products

NACE

A	Agriculture, forestry and fishing
A.01.2.8	Growing of spices, aromatic, drug and pharmaceutical crops
C.21	Manufacture of basic pharmaceutical products and pharmaceutical preparations
E.38	Waste collection, treatment and disposal activities; materials recovery
Q.86.2.1	General medical practice activities

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

Contact Person

Pawel Zebrowski

Phone Number

+48 91 449 43 64

Email

pzebrowski@zut.edu.pl

Open for EOI : Yes

Dissemination

Relevant Sector Groups

Bio Chem Tech

Client

Type and Size of Organisation Behind the Profile

University

Year Established

2006

Turnover

<1M

Already Engaged in Trans-National Cooperation

Yes

Experience Comments

The Turkish university is experienced in hosting international post-doctoral researchers and has succesfully completed international research projects resulting in Patent applications.

Certification Standards

other

Languages Spoken

Turkish
English
Russian
Arabic
Spanish

Client Country

Turkey

Partner Sought

Type and Role of Partner Sought

Partners sought for research cooperation agreements are individuals with PhD degrees or 4 years of professional experience from academia, research organisations and industry.

The partner will be responsible from preparation of the grant applications belonging to the applicant.

Type and Size of Partner Sought

University,Inventor,R&D Institution

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

Marie Sklodowska-Curie Actions

Call title and identifier

Horizon 2020 Marie Skłodowska-Curie Actions Cofund program; CoCirculation2

Submission and evaluation scheme

All proposals that have fulfilled the eligibility criteria will be evaluated by a peer review system carried out by panels of independent experts. The Experts Database of TÜBİTAK and European Commission Expert Database will be used for the selection.

Coordinator Required

No

Deadline for EOI

27 Sep 2019

Deadline of the Call

31 Oct 2019

Project Duration

1248 week(s)

Weblink to the Call

http://cocirc2.org.tr/

Project Title and Acronym

CoCirculation2

Attachments

Profile Status: Published

Research & Development Request

H2020 LC-RUR-11-2019-2020: sustainable wood value chains: seeking cluster, industrial and R&D partners

Summary

A cluster of innovative SMEs, based in southern Italy, and a large university, working on sustainable Mediterranean buildings, are preparing a proposal for the call H2020 LC-RUR-11-2019-2020 to develop and test new technologies and environmentally friendly solutions using wood-based materials in (re)-construction and modernization of buildings. They look for other clusters and industrial/R&D partners to integrate complementary technologies and extend socio-economic / geographical coverage.

Creation Date	13 November 2018
Last Update	21 November 2018
Expiration Date	21 December 2018
Reference	RDIT20181113001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/a8799f58-1524-4c88-8007-20613921bf8b

Details

Description

A large network with more than seventy companies, mainly SMEs and a few large national undertakings, has been recently recognised as a regional innovation cluster for sustainable building in a southern Italian region. The cluster managing body, together with a large University with engineering and socio-economic competencies ,are working on a proposal for the H2020 topic LC-RUR-11-2019-2020 "Sustainable wood value chains" with a deadline on 23 January 2019.

One of the key characteristics of the cluster is the approach based on value chains to design and build new products and services, starting from five macro themes: wood, natural fibres, green walls, building's waste recovery, and smart building. As to wood products, the cluster includes companies operating along the whole value chain and it is focusing on the development and diffusion of innovative standards for production, certification and use of local wood species for structural purposes and components. In addition, the cluster is accredited with regional and local governments for sustainable building experimentations.

The University brings a consolidated engineering know-how on composite wood structures and components, modular green walls and nature based solutions, energy saving and passive systems, gained in several national and EU projects, also studied in terms of sustainability of the life cycle with the LCA (Life Cycle Assessment) methodology. A research group is also involved in the study of territorial impacts from a socio-economic perspective.

According to the topic, the overall project idea aims to develop and test new technologies and environmental friendly solutions for the use of wood-based materials in the (re)construction and/or retrofitting of buildings.

Based on their experience, the partners have identified their key contribution in pilot actions to develop and test wood-based solutions, certified for the Mediterranean climate, for structures and passive components in new constructions as well as to recover or reinforce historical earhquake-resistant timber framing in the Mediterranean Area.
Overall, the project should implement at least three/four pilot actions with extended demonstrations and product validation on a large scale.

To this aim, the partnership should be enriched with similar groupings, i.e. clusters, industrial companies, R&D centres, but with complementary technological solutions and possibly different climatic and/or socio-economic conditions, to integrate and extend the effective applications of multiple solutions.

Also, academic and/or institutional partners from third countries, able to contribute to specifications and adaptation to their territories, are sought.

The call deadline is 23 January 2019 but Expressions of Interests will be accepted by 21 December 2018 at the latest.

Keywords

Technology

02006001	Materials, components and systems for construction
02006002	Construction methods and equipment
02006003	Fire Resistance/Safety
02006006	Construction engineering (design, simulation)
02006007	Management of construction process & life

Market

09007001	Construction companies
09007002	Manufacture of construction materials, components and systems
09007003	Distribution of building products and systems
09007004	Engineering and consulting services related to construction

NACE

F.41.1.0	Development of building projects
F.41.2.0	Construction of residential and non-residential buildings
F.43.3.9	Other building completion and finishing
M.72.1.9	Other research and experimental development on natural sciences and engineering
M.72.2.0	Research and experimental development on social sciences and humanities

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

Contact Person

Pawel Zebrowski

Phone Number

+48 91 449 43 64

Email

pzebrowski@zut.edu.pl

Open for EOI : Yes

Client

Type and Size of Organisation Behind the Profile

Other

Year Established

2018

Turnover

<1M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Italian

Client Country

Italy

Partner Sought

Type and Role of Partner Sought

The final partnership should be able to:
- start with a set of identified innovative solutions, ready to be advanced to high TRL values

- develop prototypes and pilot actions on different conditions, eg. covering northern, central and southern EU regions, urban and rural areas,
- work with existing value chains at regional / national level with a direct involvement of clusters and/or industrial stakeholders

Thus, the ideal partners should be:
- innovative clusters, industrial companies, R&D centres,
- with technical and market knowledge on (diversified) sustainable wood-based solutions,
- possibly operating on different climatic and/or socio-economic conditions,
- connected with the other relevant actors (citizens, policy makers from urban/rural areas, businesses, architects, site-managers, etc.)

Key tasks include only marginal research activities and a strong emphasis on prototyping, testing, demonstrating, etc. to realise three/four pilot actions. Thus, industrial partners that may contribute to an experimental setting along the value chaina are welcome.

In addition, a partner with a solid and specific background on territorial and socio-economic issues connected to the development of the value chains is welcome.

Finally, academic and/or institutional partners from third countries, able to contribute to specifications and adaptation to their territories, are sought.

The identification of the coordinator might be reviewed jointly with the whole partnership.

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

LC-RUR-11-2019-2020 Sustainable wood value chains

Submission and evaluation scheme

Single stage

Anticipated Project Budget

10 M€

Coordinator Required

Yes

Deadline for EOI

21 Dec 2018

Deadline of the 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/lc-rur-11-2019-2020.html

Project Title and Acronym

BEST wood: Beyond Europe with sustainable technologies for wood

Profile Status: Published

Research & Development Request

H2020-MSCA-RISE-2019: Research and Innovation Staff Exchange on the development of underwater archaeological technoloogies

Summary

An Italian university lab on cultural heritage together with other R&D centres and SMEs from Italy and Spain are preparing a proposal for the call MSCA-RISE-2019 to work on the development of technologies and easy to use solutions for underwater archaeological sites that can be derived by smart, hi-tech adaptations of subaerial solutions. Expected partners are universities, R&D centres and SMEs that are either experienced in the topic or interested in a "dual" use of existing technologies.

Creation Date	16 November 2018
Last Update	22 November 2018
Expiration Date	01 March 2019
Reference	RDIT20181116001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/5c5e61e7-c8c9-4f36-be2a-0e1f979cf1cf

Details

Description

A research laboratory of a large southern Italian university is well equipped for safeguard, restoration and conservation of cultural heritage and, particularly, for the characterization and diagnostics of natural stone and artificial materials, to study their provenience, to support their excavation, to synthetize consolidating and protective materials in historical architecture and archeology, and finally to study and preseve artifacts in underwater environments. The laboratory has been involved in many diagnostic studies and application of conservation techniques on important monuments, in Italy and abroad.

With specific reference to the underwater archeology, the laboratory has a qualified experience in the development of specific tools, techniques and materials to make the work in underwater archaeological settings easier and more effective.
In many case, the experience started from existing solutions for subaerial environments that were successfully adapted to the submarine domain of cultural heritage. This is a niche market with large margins for further exploitation in terms of ease of use, reduced management and application costs, performance improvements.

Thus, together with a selected group of innovative startups and research centres, based in Italy and Spain , the laboratory is interested to develop a proposal for the call MSCA-RISE-2019

"Research and Innovation Staff Exchange" (deadline 02 April 2019) to further develop such a "dual" underwater use of existing technologies. The project will benefit from the extended mobility periods and exchanges of academic and SMEs personnel granted by the RISE action.

In fact, the current partnership include two Italian innovative startups that have launched a suite of handy underwater tools (drills, etc.) and an Augmented Reality viewer, derived from standard products, and an important Spanish research centre working on non-destructive diagnostics in several cultural heritage fields.

The project idea is to establish a network of academic and entrepreneurial operators mixing:
- scientific knowledge on the development of technologies and materials for underwater usage in the cultural heritage field;
- technical and market know-how about the development of underwater products and solutions;
- industrial know-how about products (e.g., coatings, mortars, tools, etc.) developed for traditional subaerial usage and/or for sectors other than the cultural heritage field.

The expected partners are Universities and research centres, innovative SMEs, and industrial companies interested - even if not strictly focused - on submarine applications, proposing new strands that require multi-sectorial competencies to develop advanced solutions for underwater archeology.

Given that the deadline for the call is 02 April 2019, the deadline for expressing the interest is 01 March 2019.

Advantages and Innovations

Strenghts and opportunities characterising the proposed approach:

- Underwater archeology solutions (for exploring, excavation, preservation, valorisation, etc.) are a niche market not yet fully explored and with a growing attention;

- Long experience and advanced equipment of current R&D partners in the field of submarine cultural heritage;

- Successful product development experience in the field of submarine cultural heritage of the SME partners

- Consolidated links with national and EU Institutions for cultural heritage

Keywords

Technology

01001001	Automation, Robotics Control Systems
02001001	3D printing
02002010	Machining (turning, drilling, moulding, planing, cutting)
02007004	Colours and varnish
07003004	Micro- and Nanotechnology related to marine resources

Market

03007003	Other analytical and scientific instrumentation
08001023	Other chemicals and materials (not elsewhere classified)
08002004	Robotics
08003001	Machine tools, other metal working equipment (excl. numeric control)

NACE

M.72.1.9	Other research and experimental development on natural sciences and engineering
M.72.2.0	Research and experimental development on social sciences and humanities
P.85.4.2	Tertiary education

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

Contact Person

Pawel Zebrowski

Phone Number

+48 91 449 43 64

Email

pzebrowski@zut.edu.pl

Open for EOI : Yes

Dissemination

Relevant Sector Groups

Tourism and Cultural Heritage

Client

Type and Size of Organisation Behind the Profile

University

Year Established

1972

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Italian

Client Country

Italy

Partner Sought

Type and Role of Partner Sought

Partners are expected to match the characteristics outlined below.

Type of partners:
- R&D: Universities and research centres with diversified background (engineering, chemistry, IT, archeology, etc.)
- SME: Hi-tech / industrial aiming at the development of new products / solutions for underwater cultural heritage applications.

Area of activity of the partner (both for R&D and SMEs):
- Already engaged in underwater R&D / products, particularly in the field of cultural heritage;
- Interested to apply know-how and/or products from other sectors to underwater archeology.

Project coordination might be agreed upon among the partners.

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

MSCA-RISE-2019 "Research and Innovation Staff Exchange"

Submission and evaluation scheme

Single stage

Anticipated Project Budget

3 M€

Coordinator Required

Yes

Deadline for EOI

01 Mar 2019

Deadline of the Call

02 Apr 2019

Project Duration

156 week(s)

Weblink to the Call

https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/msca-rise-2019.html

Project Title and Acronym

DUST - Dual development of underwater solutions and technologies

Profile Status: Published

Research & Development Request

H2020-SC3-RES-1-2019 : Companies with expertise in photovoltaics fabrication, power device, sensors are sought

Summary

A French university will act as a coordinator of a European project aimed at developing new approaches for the fabrication of power devices. The consortium has identified 2 relevant calls to implement this project : LC-SC3-RES-1-2019 and LC-NMNP-32-2019. Industrial partners active in semiconductor electronics/sensor/photovoltaic (PV) are sought to complete the consortium.

Creation Date	20 February 2018
Last Update	30 November 2018
Expiration Date	29 May 2019
Reference	RDFR20180219001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/44e4e022-8c86-48d6-9494-39426c1631eb

Details

Description

The objective of the PROXY consortium is to develop a solution addressing the issue of efficient energy conversion. The consortium will develop novel approaches for the fabrication of power devices/ PV cells / sensors via the adoption of a new and environmentally friendly electronics technology based on the emerging, cost effective and earth abundant element based wide bandgap (WBG) semiconductor.

The consortium already includes academics and companies:
1. French University (Coordinator)
2. University , Germany
3. Institute - Spain
4. University - UK
5. University - Georgia
6. University, Finland
7. French SME- France

The partners already selected in the consortium are expert in raw material research, manufacturing of epiwafer, PV cells, power device, recycling, life cycle assesment, economic quantification.

During the project, the consortium plans to demonstrate

that novel methodologies and technologies for the fabrication of beyond state-of-the-art power devices /PV cells/sensors would also simultaneously offer both lower cost and higher performance.

Design issues related to green electronic devices (on the base of non toxic material) for moving toward device miniaturization, with reducing cooling requirements (water waste) will be also taken into account.

The device potential environmental impact and the potential market by designing a circular economy model will be also included in the project.

At the end of the project, the TRL 4 should be reached.

A SME and A MNE are sought to complete the consortium.

Two topics have been identified by the consortium :

LC-SC3-RES-1-2019-2020: Developing the next generation of renewable energy technologie - 2 stages - 1st deadline 16 October 2018
LC-NMBP-32-2019 : Smart materials, systems and structures for energy harvesting - 2 stages - 1st deadline 22 January 2019

Deadline for expression of interest are 15 January 2019

The project PROXY has duration of 40 months.(173 weeks)

Advantages and Innovations

Brief description of the state of the art:
Among semiconductors, Silicon(Si) is the foundational technology against which all others are compared.

Research has approached the atomic limit of scaling for Si to reach the pinnacle of its performance and the fundamental limitations of Si performance at the device level have been identified .There still remain applications and functions that are out of reach for this material.

PROXY proposes the new generation ultra high band gap wafer growth/characterization and device fabrication.

Potential Applications of devices:
- power electronics (energy transmition, conversion, electrical vehicles, etc)
- high-temperature signal processing
- harsh environment electronics = aeronautic, automotive, industry, remote location and space with respect to harsh-environment operation
- wireless communication devices/circuits, chemical sensing = IoT
- PV cells

Keywords

Technology

01002012	Semiconductors
02007022	Conductive materials

04002005	Generators, electric engines and power converters
04005004	Photovoltaics

Market

03001001	Semiconductors
03003	Power Supplies
03004001	Semiconductor fabrication equipment and wafer products
06002003	Power grid and distribution
06003002	Photovoltaics

NACE

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

Pawel Zebrowski

Phone Number

+48 91 449 43 64

Email

pzebrowski@zut.edu.pl

Open for EOI : Yes

Dissemination

Relevant Sector Groups

Materials

Restrict Dissemination to Specific Countries

Austria, Belgium, Bulgaria, Canada, Croatia, CzechRepublic, Denmark, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Ireland, Israel, Italy, Latvia, Lithuania, Luxembourg, Macedonia,TheformerYugoslavRepublicof, Malta, Moldova, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, UnitedKingdom,

Client

Type and Size of Organisation Behind the Profile

University

Year Established

0

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Russian
French
Spanish
Italian

Client Country

France

Partner Sought

Type and Role of Partner Sought

- SME interested in power device / sensors/ PV cells fabrication .The SME will act as an “end user”.

- Industrial (MNE), to integrate into the consortium an advisory or management board member, giving guidelines and promoting the circular economy model for gallium.

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

H2020

Call title and identifier

LC-SC3-RES-1-2019-2020: Developing the next generation of renewable energy technologie

LC-NMBP-32-2019 : Smart materials, systems and structures for energy harvesting

Submission and evaluation scheme

Two-stage submission scheme: a short proposal for the first stage followed by full proposal for the second stage, if it passes the first-stage evaluation.

Coordinator Required

No

Deadline for EOI

29 May 2019

Deadline of the Call

21 Jul 2019

Weblink to the Call

http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/lc-sc3-res-1-2019-2020.html

Project Title and Acronym

Gallium oxide based Oxytronics - PROXY

Profile Status: Published

Research & Development Request

URGENT - MSCA-ITN-2018: Innovative Training Networks – Industry or government partners sought with expertise in geoinformatics (GIS), remote sensing, hydrological modelling and land cover changes

Summary

A UK university is seeking companies or government organisations to join their Marie Sklodowska-Curie Innovative Training Network bid to explore strategies for understanding intermittent rivers under multiple stressors. The partner would contribute in expertise, and this being geoinformatics (GIS), remote sensing, hydrological modelling and land cover changes. Ideally a partner that uses GIS extensively and works in environmental monitoring. Collaboration under research cooperation agreement.

Creation Date	21 November 2018
Last Update	27 November 2018
Expiration Date	31 December 2018
Reference	RDUK20181121001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/da537ba7-9e45-4336-a270-b22fc4a816a3

Details

Description

Department of Life and Environmental Sciences at a UK University is seeking industry or government partners (companies) to join their Marie Sklodowska-Curie Innovative Training Network bid to explore strategies for understanding intermittent rivers under multiple stressors. The project is dealing with rivers in Europe and how they respond to pollutants and focuses on solving present and future challenges related to science and management of intermittent rivers and streams (IRIS) and multiple stressors impact on water bodies. Challenges like: system understanding of receptors in IRIS under multiple stressors and assessing the impact on aquatic environment will be achieved through integrative interdisciplinary approach.

One of the challenges is the study of the processes in intermittent rivers' watersheds and the development of their management strategies. It specifically deals with changes in land use/cover change and climate and their effect on hydrological characteristics of intermittent rivers. The research would include - spatial analysis of sources of pollution, and eventual changes of land use/cover changes in areas close to the river bed.

Therefore, the main objective of the project is to develop a model of hydrological changes under

different land use/cover and climate change scenarios in intermittent river watershed. The model will be based on the integration of remote sensing, hydrological and climate data through a multi-agent system.
They seek companies or government organisations outside of the UK with expertise in spatial analyses, geographic modelling and/or hydrology / remote sensing. Ideally this would be a company that uses GIS extensively and works in environmental monitoring. Partner linked to rivers (hydrology) would be particularly aligned to the project however all partners will be considered, therefore this is not a must.

The project has a specific requirement where a researcher on the project goes and works for the organisation for approximately 1.5 years to learn new skills and to add an applied segment to their postgraduate doctoral degree (PhD). The organisation does not pay the researcher but is free to involve them in any activity/job that would be beneficial for the PhD (but hopefully for both). The partner is expected to contribute their expertise to the project via a research collaboration agreement.

H2020-MSCA-ITN-2019 TOPIC: Innovative Training Networks “Marie Sklodowska-Curie Innovative Training Networks"

Call deadline: 15 January 2019

The deadline for expressions of interest: 31 December 2018.

Advantages and Innovations

At researcher level:

• Increased set of skills, both research-related and transferable ones, leading to improved employability and career prospects both in and outside academia (leading in the longer-term to more successful careers)
• Increase in higher impact R&I output and more knowledge and ideas converted into products and services
• Greater contribution to the knowledge-based economy and society

At organisation level:

• Enhanced cooperation and better transfer of knowledge between sectors and disciplines
• Improvement in the quality of training programmes and supervision arrangements
• Creation of new networks and enhanced quality of existing ones
• Boosting R&I capacity among participating organisations
• Increased internationalisation of participating organisations

At system level:

• Increase in international, interdisciplinary and intersectoral mobility of researchers in Europe
• More structured and innovative doctoral training, enhanced implementation of the European Charter and Code and the EU Principles for Innovative Doctoral Training
• Stronger links between the European Research Area (ERA) and the European Higher Education Area (EHEA), notably through supporting the knowledge triangle between research, innovation and education
• Improvement in the working and employment conditions for doctoral candidates in Europe
• Increased societal and economic relevance of European higher education
• Strengthening Europe's human capital base in R&I with a new generation of more entrepreneurial and highly-skilled early career researchers
• Increase in Europe's attractiveness as a leading research destination, accompanied by a rise in the numbers of talented researchers attracted and retained from abroad

• Better quality research and innovation contributing to Europe's competitiveness and growth

Stage of Development

Proposal under development

Keywords

Technology

09001009	Sensor Technology related to measurements
10002008	Measurement and Detection of Pollution
10002010	Remote sensing technology
10004008	Water Resources Management
10004010	Hydrology

Market

03007003	Other analytical and scientific instrumentation
07006	Other Consumer Related (not elsewhere classified)

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

Contact Person

Pawel Zebrowski

Phone Number

+48 91 449 43 64

Email

pzebrowski@zut.edu.pl

Open for EOI : No

Dissemination

Relevant Sector Groups

Environment

Client

Type and Size of Organisation Behind the Profile

University

Year Established

0

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English

Client Country

United Kingdom

Partner Sought

Type and Role of Partner Sought

Partners must be from a Horizon2020 eligible country (excluding UK) and can either be from industry i.e. company of any size e.g. SME, medium, large or R&D institute, or alternatively be a government organisation.

Partners should be able to contribute mostly in expertise, this being geoinformatics (GIS), remote sensing, hydrological modelling and land cover changes and this would be done under a research cooperation agreement.

Ideally this would be a company or government organisation that uses GIS extensively and works in some sort of environmental monitoring. An ideal partner would be inked to rivers (hydrology) however this is not a must.

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

Marie Sklodowska-Curie Actions

Call title and identifier

Horizon2020 Work Programme Part: Marie Skłodowska-Curie actions

Call : H2020-MSCA-ITN-2019

TOPIC : Innovative Training Networks

Coordinator Required

No

Deadline for EOI

31 Dec 2018

Deadline of the Call

15 Jan 2019

Project Duration

78 week(s)

Weblink to the Call

http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/msca-itn-2019.html

Project Title and Acronym

Strategies for understanding intermittent rivers under multiple stressors

Profile Status: Published

Research & Development Request

URGENT - MSCA-ITN-2018: Innovative Training Networks - two non-academic partners sought

Summary

A UK university are seeking companies to join their Marie Sklodowska-Curie Innovative Training Network bid to explore strategies for understanding intermittent rivers under multiple stressors. Two partners are required, to contribute expertise in 1) assessing molecular response of freshwater communities (biofilm, macroinvertebrates) to environmental stressors, and in 2) assessment of ecological status of intermittent running waters using macroinvertebrate communities.

Creation Date	23 November 2018
Last Update	28 November 2018
Expiration Date	10 December 2018
Reference	RDUK20181123001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/71459e82-46b8-48ff-bd28-c65b9488deb6

Details

Description

Department of Life and Environmental Sciences at a UK University, Department of Biology at Faculty of Science and a Croatian university and institute are seeking non-academic partners (companies, agencies, etc.) to join their Marie Sklodowska- Curie Innovative Training Network bid to explore strategies for understanding intermittent rivers under multiple stressors.

The project is dealing with rivers in Europe and how they respond to pollutants and focuses on solving present and future challenges related to science and management of intermittent rivers and streams (IRIS) and multiple stressors impact on water bodies. Challenges like: system understanding of receptors in IRIS under multiple stressors and assessing the impact on aquatic environment will be achieved through integrative interdisciplinary approach. In order to tackle such challenges, several postgraduate doctoral degree (PhD) projects with complementary objectives are planned. For instance, one of the PhD projects would deal with assessing intermittent river biofilm response and assessing intermittent aquatic macroinvertebrates response during different environmentally relevant (e.g. long-term low-dose) multiple stress events. The second would work on development of novel metrics and indices using taxonomy-based and functional traits-based information of macroinvertebrate communities in IRIS.

Two partners are required, ideally this would be a company/agency that works in some sort of 1) analytical/instrumental development and biotechnology, and 2) environmental research and monitoring. However all partners will be considered, therefore this is not a must.

They seek companies in Europe with expertise in:

1) Polymerase chain reaction (PCR), real-time PCR, high-throughput sequencing, proteomic and metabolomics sample preparation and advanced hyphenated mass spectrometry techniques;
2) Methods for assessment of ecological status of running waters using macroinvertebrates, i.e. experience in development/application of metrics based on macroinvertebrate communities (perennial and/or intermittent running waters), database searching and data processing, metrics testing and statistical analyses.

The project has a specific requirement where a researcher goes and works for the non-academic partner for 18 months to learn new skills and to add an applied segment to their postgraduate doctoral degree (PhD). The total costs for the researcher (salary and research costs) are covered by the project. However, the non-academic partner is free to involve them in any activity/job that would be beneficial for the PhD (but hopefully for both). The non-academic partner is expected to contribute their expertise to the project via a research collaboration agreement.

H2020-MSCA-ITN-2019 TOPIC: Innovative Training Networks “Marie Sklodowska-Curie Innovative Training Networks"

Call deadline: 15 January 2019

The deadline for expressions of interest: 10 December 2018.

Advantages and Innovations

At researcher level:

• Increased set of skills, both research-related and transferable ones, leading to improved employability and career prospects both in and outside academia (leading in the longer-term to more successful careers)
• Increase in higher impact R&I output and more knowledge and ideas converted into products and services
• Greater contribution to the knowledge-based economy and society

At organisation level:

• Enhanced cooperation and better transfer of knowledge between sectors and disciplines
• Improvement in the quality of training programmes and supervision arrangements
• Creation of new networks and enhanced quality of existing ones
• Boosting R&I capacity among participating organisations
• Increased internationalisation of participating organisations

At system level:

• Increase in international, interdisciplinary and intersectoral mobility of researchers in Europe
• More structured and innovative doctoral training, enhanced implementation of the European Charter and Code and the EU Principles for Innovative Doctoral Training
• Stronger links between the European Research Area (ERA) and the European Higher Education Area (EHEA), notably through supporting the knowledge triangle between research, innovation and education
• Improvement in the working and employment conditions for doctoral candidates in Europe
• Increased societal and economic relevance of European higher education
• Strengthening Europe's human capital base in R&I with a new generation of more entrepreneurial and highly-skilled early career researchers

• Increase in Europe's attractiveness as a leading research destination, accompanied by a rise in the numbers of talented researchers attracted and retained from abroad
• Better quality research and innovation contributing to Europe's competitiveness and growth

Stage of Development

Proposal under development

Keywords

Technology

07003003	Marine Science
07003004	Micro- and Nanotechnology related to marine resources
09001009	Sensor Technology related to measurements
10002007	Environmental Engineering / Technology
10004010	Hydrology

Market

03007002	Other measuring devices
03007003	Other analytical and scientific instrumentation
04010	Microbiology

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

Contact Person

Pawel Zebrowski

Phone Number

+48 91 449 43 64

Email

pzebrowski@zut.edu.pl

Open for EOI : Yes

Dissemination

Relevant Sector Groups

Environment

Client

Type and Size of Organisation Behind the Profile

University

Year Established

0

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English

Client Country

United Kingdom

Partner Sought

Type and Role of Partner Sought

Non-academic partners must be from a Horizon2020 eligible country (excluding UK) and be of any size e.g. SME, medium, large or R&D institute, agencies.

Two non-academic partners are required. They should be able to contribute mostly in expertise in 1) assessing molecular response of freshwater communities (biofilm, macroinvertebrates) to environmental stressors, and in 2) assessment of ecological status of intermittent running waters using macroinvertebrate communities, and this would be done under a research cooperation agreement.

Ideally this would be a company/agency that works in some sort of 1) analytical/instrumental development and biotechnology, and 2) environmental research and monitoring. However all partners will be considered, therefore this is not a must.

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

Marie Sklodowska-Curie Actions

Call title and identifier

H2020-MSCA-ITN-2019 TOPIC: Innovative Training Networks “Marie Sklodowska-Curie Innovative Training Networks"

Call deadline: 15 January 2019

The deadline for expressions of interest: 10 December 2018.

Coordinator Required

No

Deadline for EOI

10 Dec 2018

Deadline of the Call

15 Jan 2019

Weblink to the Call

http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/msca-itn-2019.html

Profile Status: Published

Research & Development Request

H2020 DT-FOF-08-2019 - Industrial partners sought for developing pilot lines for modular factories in automotive, naval and defence sectors.

Summary

A UK Midlands based university is seeking technical industrial partners in the automotive, naval, and defence sectors for the H2020 call DT-FOF-08-2019. The project aims at developing modular production systems for industrial sectors that can be adapted to individual use-cases as are necessary. This would allow creating efficient, highly adaptable production lines.

Creation Date	01 November 2018
Last Update	03 November 2018
Expiration Date	21 December 2018
Reference	RDUK20181101001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/ff2375ea-67e1-4cf4-a293-00f861a59a5a

Details

Description

A UK University based in the Midlands who already has partners from the UK, France, Portugal and Russia is now seeking industrial partners for the Horizon 2020 call DT-FOF-08-2019 to demonstrate the developed modular systems and their advantages of modularity in production lines and their impact in configuration time, production costs, and resource efficiency.

The project objective is to develop and demonstrate modular production equipment capable of creating highly adaptable production lines to enable efficient production of small series tailored to customer demands for different sectors (i.e. automotive and naval/defence), whereas it is aiming to achieve a reduction by 15% in reconfiguration/downtime and in the overall production costs, an increase of 10% in resource efficiency, as well as improvement from run-to-run for small lot sizes.

To this extent, the following specific objectives (SO) have been defined by the lead:

- SO1: To develop highly flexible and real-time reconfigurable modules capable of producing a wide variety of complex products (to be detailed by use-cases), of adapting to rapid changes in production lines through automated processes or manual intervention, that count with accessible and secure interfaces.

- SO2: To demonstrate the advantages of modularity in production lines and its impact on

configuration time, production costs, resource efficiency.

The operative objectives (OO) are related to the defined work packages and are detailed below:

- OO1: To develop and integrate a range of production modules covering different disciplines (i.e mechanical cutting tools, thermal processes, later treatments, additive manufacturing) into pilot lines.

- OO2: To integrate all the production management systems, including real-time process control, into a reconfigurable line.

- OO3: To deal with data interoperability between modules and process line (including legacy hardware and software).

- OO4: To deal with all the safety related aspects.

- OO5: To demonstrate the proper functioning of the pilot line through the implementation of different use-cases (production of different products covering processing technologies and features such as multi-functionality (mechanical, electrical, thermal, optical), multi-materials and complex shapes.

- OO6: To elaborate a successful exploitation plan, by means of different modules and tools in order to design the most profitable potential business models considering economic, financial and strategic aspects.

- OO7: To disseminate project information and project results in different settings, including academic and scientific, industrial and divulgation environments.

The university is now seeking technical industrial partners ideally from the naval, automotive and defence sectors to help them develop a modular system and demonstrate the advantages of modularity in production lines and its impact on configuration time, production costs, and resource efficiency.

EOI Deadline 21st December 2018
Call Deadline 21st February 2019

Advantages and Innovations

Manufacturing is a key enabler for Europe's grand societal challenges.

The manufacturing sector employed 31 million people in 2009, generated € 5,812 billion of turnover and € 1,400 billion of value added, with SMEs being the backbone of the manufacturing industry in Europe.

They provide around 45 % of the value added and 59 % of manufacturing employment.

The trend in the production industry is going away from mass-produced products, towards individual products, which are adapted to the customer requirements (small series tailored to customer demands). Therefore, current important business challenges for manufacturing companies are related to:

- increasing the flexibility through a reduction in the time needed to reconfigure the production line/downtime,
- increasing resource efficiency when producing customised products
- keeping the overall costs of production down.
- improving yield from run-to-run for small lot sizes.

In this context, modularity is the strategy that many industrial sectors are adopting (i.e. which are the sectors the university are covering with the project), either in product development or in industrial production configuration, to create efficient highly adaptable production lines. Modular production is seen as an opportunity for competitiveness and survival of many large companies and SMEs in Europe.

In this context it is crucial to come up with flexible, modular production systems, as the ones developed within the project, that can be adapted to individual use-cases are necessary.

Technical Specification or Expertise Sought

Partner: Industrial partners based in the automotive, naval, and defence sectors (other sectors will be considered)

Role: to demonstrate the developed modular systems and their advantages of modularity in production lines and its impact in configuration time, production costs, and resource efficiency.

Stage of Development

Proposal under development

IPR Status

Other

Comment Regarding IPR status

Registered design, plant variety, etc.

Keywords

Technology

01004012	Operation Planning and Scheduler System
01006013	Communications Protocols, Interoperability
02003002	Manufacturing plants networks
09001005	Mechanical Technology related to measurements
10001002	Assessment of Environmental Risk and Impact

Market

08002006	Numeric and computerised control of machine tools
08003001	Machine tools, other metal working equipment (excl. numeric control)
08003007	Other industrial equipment and machinery
09003001	Engineering services
09004008	Other manufacturing (not elsewhere classified)

NACE

C.28.9.9	Manufacture of other special-purpose machinery n.e.c.
C.29.1.0	Manufacture of motor vehicles
C.32.9.9	Other manufacturing n.e.c.

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

Contact Person

Pawel Zebrowski

Phone Number

+48 91 449 43 64

Email

pzebrowski@zut.edu.pl

Open for EOI : Yes

Dissemination

Relevant Sector Groups

Aeronautics, Space and Dual-Use Technologies
Automotive, Transport and Logistics

Client

Type and Size of Organisation Behind the Profile

University

Year Established

1835

Already Engaged in Trans-National Cooperation

Yes

Experience Comments

The lead partner already has a consortium consisting of partners from the following countries: UK, France, Portugal and Russia.

Client Country

United Kingdom

Partner Sought

Type and Role of Partner Sought

Industrial partners

Ideal sectors:

Automotive,
Navel
Defence

Roles and skills:

- Reconfigurable pilot line integrator.
- End user (one or many) of the different sector use cases (complex products) that will be produced in the reconfigurable pilot line.
- Production management systems expert.
- Expert in safety of modular process units.
- Process technologies experts (one or many) (the technologies will be defined in a due course).

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

Call: Transforming European Industry
Topic: DT-FOF-08-2019: Pilot lines for modular factories (IA 50%)

Submission and evaluation scheme

Single stage.

Anticipated Project Budget

12-15 million euros

Coordinator Required

No

Deadline for EOI

21 Dec 2018

Deadline of the Call

21 Feb 2019

Project Duration

144 week(s)

Weblink to the Call

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

Project Title and Acronym

DT-FOF-08-2019 - Industrial partners sought for developing pilot lines for modular factories in automotive and/or naval and/or defence sectors.