

Research & Development Request

H2020-SC1-BHC-10-2019: public procurers and experts in Next Generation Sequencing, genomics, ethics and data protection are sought for routine diagnosis in haematology and oncology

Summary

A Spanish public hospital is looking for partners for submitting a proposal to the call H2020-SC1-BHC-10-2019: Innovation Procurement: Next Generation Sequencing (NGS) for routine diagnosis. Public procurers and experts in NGS, genomics, ethics and data protection in the field of haematology and oncology are sought for developing personalised medicine solutions and scale-up demand driven innovation for healthcare systems.

Creation Date	15 May 2018
Last Update	25 May 2018
Expiration Date	30 September 2018
Reference	RDES20180510001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/4dfd3718-d495-49cf-af7c-0cfb1b34e1bd

Details

Description

Although there have been unprecedented advances over the last decade in the speed and throughput of NGS (Next Generation Sequencing) platforms, the challenge is still the application of NGS for the integrated diagnosis and treatment of hematological neoplasms. The emergence of NGS imposes increasing demands on statistical methods and bioinformatic tools for the analysis and management of these data. Not all the genes are analysed with equal precision by this technique (e.g.: insertions and long deletions do often escape from standard computer analyses; similarly, there are specific genomic regions that are difficult to capture in the sample preparation before sequencing). Therefore, the use of NGS data for integrated diagnosis is given not only by the enormous amount of data that should be manipulated at the same time, but also by the great complexity for biological interpretation.

This project aims to develop a NGS platform at an EU level for routine diagnosis and personalised medicine in haematology and oncology. This will be based on the use of NGS and the development of methods for data collection, management, and data analysis and interpretation. The platform will aid clinical decision making based on personalised medicine and fosters health research in oncology and haematology.

The project will be submitted to the call "H2020-SC1-BHC-10-2019: Innovation Procurement: Next Generation Sequencing (NGS) for routine diagnosis" (maximum budget ranges between 9

and 11 M€).

The project has duration of 192 weeks. Deadlines for the call and expressions of interest are 16th April 2019 and 30th September 2018, respectively.

Advantages and Innovations

The complexity of the data generated by NGS sequencers requires highly qualified personnel for biological interpretation. Also, the scarcity of guidelines at an international level for onco-haematological diagnosis has forced researchers to struggle to interpret the results and detect recurrent errors during the sequencing process.

The project will focus on the haematology and oncology domains to tackle acute myeloid leukaemia (AML) and myelodysplastic syndromes (MDS). Gaining additional information about the mutational landscape of AML by NGS would increase the understanding of the mechanisms underlying AML. Although morphology is the reference strategy for MDS diagnosis, the use of NGS would provide precise information on the evolution of the tumour in each specific patient, both by the number and the type of mutations.

This project will launch a Pre-Commercial Procurement (PCP) oriented to deliver novel solutions aimed to:

- Overcome current problems in the processing of genomic information through software tools and computing capacity.
- Create a genomic cloud that offers the services of sequencing, processing, storage and reporting of the results of the tests performed.
- Provide health information systems for prevention, diagnosis and the application of effective treatments based on personalised medicine.

The main expected outcomes of this project are to:

- Facilitate improvements in the prognostic scoring systems.
- Enhance the detection of residual disease, in combination with other techniques (flow cytometry, quantitative Polymerase Chain Reactions methods, etc).
- Develop a broad number of genetic tests aimed to identify the molecular targets and improve the targeted therapies.

Technical Specification or Expertise Sought

Stage of Development

Proposal under development

Comments Regarding Stage of Development

The proposal is currently under development.

IPR Status

Copyright

Comment Regarding IPR status

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Keywords

Technology

06001012

Medical Research

06003001 Bioinformatics
06003002 Gene Expression, Proteome Research
06003003 Population genetics
06005003 Health information management

Market

02007012 Medical/health software
04016 Population genetics

NACE

Q.86.1.0 Hospital activities

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

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Open for EOI : **Yes**

Dissemination

Send to Sector Group

Healthcare

Client

Type and Size of Organisation Behind the Profile

Other

Ref: RDES20180510001

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

- Public Procurers: Health Services, Hospitals, etc. with interests in NGS in the field of hematology and oncology.
- Technical expert: Bioinformatics
- Research institute: NGS, genomics domain
- Legal advisors experts in General Data Protection Regulation (GDPL)
- Communication Office: expertise in healthcare domain
- Procurement advisor: specialists in Public Procurement of Innovation
- Ethical expert: patient rights

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-SC1-BHC-10-2019: Innovation Procurement: Next Generation Sequencing (NGS) for routine diagnosis

Submission and evaluation scheme

Single stage

Anticipated Project Budget

11 M€

Coordinator Required

No

Deadline for EOI

30 Sep 2018

Ref: RDES20180510001

Deadline for Call

16 Apr 2019

Project Duration

192 week(s)

Weblink to the Call

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/sc1-bhc-10-2019.html>

Attachments

Research & Development Request

H2020 SU-INFRA01-2018-2019-2020 A Greek Transmission System Operator (TSO) is searching for other TSO partners notably interested in the field of prevention, detection, response and mitigation of combined physical and cyber threats to critical infrastructure

Summary

A Greek Transmission System Operator (TSO) has been setting up a consortium to answer H2020 SU-INFRA01-2018-2019-2020 call. The company is searching for other TSO companies under a research partnership agreement, aiming to develop an installation specific approach that will address all critical factors needed to secure existing or future, public or private, connected and interdependent power and distribution installations, plants and systems

Creation Date	08 May 2018
Last Update	09 May 2018
Expiration Date	15 July 2018
Reference	RDGR20180508001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/9fe07dc4-7857-4814-811b-3cebb5304d79

Details

Description

A large Greek company, which is operating in the production and transmission of electric power, intends to submit a proposal under the topic: H2020 SU-INFRA01-2018-2019-2020. Disruptions in the operation of our countries' critical infrastructure may result from many kinds of hazards and physical and/or cyber-attacks on installations and their interconnected systems. Recent events demonstrate the increase of combined physical and cyber-attacks due to their interdependencies. A comprehensive, yet installation-specific, approach is needed to secure existing or future, public or private, connected and interdependent installations, plants and systems. Budgetary constraints on both the public and private sectors mean that new security solutions must be more accurate, efficient and cost-effective, and possibly more automated than the ones currently available.

Proposal should cover the forecast, assessment of physical and cyber risks, prevention,

detection, response, and in case of failure, mitigation of consequences (including novel installation designs), and fast recovery after incidents, over the life span of the infrastructure, with a view to achieving the security and resilience of all functions performed by the installations, and of neighbouring populations and the environment. The proposal should deal to assess all aspects of interdependent physical and cyber threats or incidents. Also the cascading risks resulting from such complex threats.

The project will assess and develop improved real-time, evidence-based security management of physical and cyber threats, taking account of the ageing of existing infrastructure. Additionally it will provide scenarios and recommendations for policy planning, engagement of the civil society, and investment measures encompassing all aspects of prevention, detection, response and mitigation. The specific proposal will focus on installations belonging to power plants and distribution infrastructure. The main objective is a development of a DSS (Decision Support System) software that will address all forecast, assessment of physical and cyber risks, prevention, detection, and response factors. The installation-specific, approach is needed to secure existing or future, public or private, connected and interdependent installations, plants and systems.

Innovative methods should be proposed for sharing information with the public in the vicinity of the installations including through social media and with the involvement of civil society organisations, for the protection of first responders such as rescue teams, security teams and monitoring teams, and for ensuring service continuity.

The Greek company is looking for TSOs from other countries, owning power and distribution infrastructure to participate in this project. The type of collaboration is research partnership agreement.

The deadline for Expressions of Interest is the 15th of July 2018.
Call deadline: 23th August 2018.

Stage of Development

Proposal under development

Keywords

Technology

01003006	Computer Software
01003020	Building Automation Software
02004	Plant Design and Maintenance
04002005	Generators, electric engines and power converters
10001003	Fire Safety Technology

Market

02007011	Manufacturing/industrial software
06002003	Power grid and distribution
06002004	Hydro-electric
06008	Energy Storage
06009	Energy Distribution

NACE

D.35.1.1	Production of electricity
D.35.1.2	Transmission of electricity
D.35.1.3	Distribution of electricity
J.62.0.3	Computer facilities management activities

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

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Open for EOI : **Yes**

Dissemination

Send to Sector Group

Materials

Client

Type and Size of Organisation Behind the Profile

Industry >500

Year Established

1950

Turnover

>500M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English

Client Country

Greece

Partner Sought

Type and Role of Partner Sought

The Greek company is looking for Transmission System Operators (TSOs) owning power and distribution infrastructure. The project will help them to secure their existing or future power and distribution installations, plants and systems.

The partnership will be research cooperation agreement.

Type and Size of Partner Sought

>500 MNE, 251-500, >500

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

H2020

Call title and identifier

PROTECTING THE INFRASTRUCTURE OF EUROPE AND THE PEOPLE IN THE EUROPEAN SMART CITIES

H2020-SU-INFRA-2018-2019-2020

Coordinator Required

No

Deadline for EOI

15 Jul 2018

Deadline for Call

23 Aug 2018

Weblink to the Call

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-su-infra-2018-2019-2020.html#c,topics=callIdentifier/t/H2020-SU-INFRA-2018-2019-2020/1/1/1/default-group&callStatus/t/Forthcoming/1/1/0/default-group&callStatus/t/>

Attachments

Research & Development Request

H2020-MSCA-IF-2018: Researcher needed for the development of novel methodologies for analysis and design of steel and timber joints

Summary

A research group of a university located in the North of Spain seeks a researcher to be candidate for HORIZON 2020 – MSCA / Individual Fellowships (H2020-MSCA-IF-2018). She/he will be asked to prepare a proposal aimed at developing a novel methodology for analysis of 2D joints based on advanced computational techniques and metamodels, which will exceed the accuracy and reliability of both the component and semi-empirical methods currently in use.

Creation Date	24 May 2018
Last Update	25 May 2018
Expiration Date	15 June 2018
Reference	RDES20180524001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/4da6a88f-a023-4d85-9d86-7647ceec38c2

Details

Description

The research group related to automated analysis and design of structures at a Spanish university focuses its research on the development of design, analysis and prototyping methods for building structures. The main activity consists of the development of new design techniques for structural analysis, including joints.

The team has an extensive experience in the area: they have proposed design methods for structures, developed calculation and finite element models for structural joints, and carried out numerous experimental programs in joints and other structural elements. They also work on the development of computational methods for structural analysis, mainly in 3D web applications. Several of the team members also collaborate in the development of European structural regulations, Eurocode 3 (design of steel structures) and 5 (design of timber structures).

The analysis and design of steel and timber joints (simple, rigid and semi-rigid) constitute an essential aspect of the global design of these types of structures. Their characterization is currently based on the component method and/or semi-empirical methods.

As a consequence of the previous research carried out in the research group, it has been found that the component method has serious limitations when modelling 3D and complex 2D joints, since it does not capture the interactions among the individual components. On the other hand,

the semi-empirical methods lack both generality and accuracy.

The technology based on advanced metamodels and databases will result in an entirely new way of modeling steel and timber connections. It is envisioned that this new technique will be much more general, reliable and accurate than the currently available component and semi-empirical methods.

The objectives of this research project can be summarized as follows:

- Develop advanced finite elements based on deformation modes and specialized extrapolations algorithms that will allow the complete characterization (stiffness and resistance) of 2D joints without the need for the component or semi-empirical methods: metamodels. These metamodels can be added to structural analysis programs in a direct way thus facilitating the work of the designer.

- Offer the structural profession a much more efficient and sustainable way of designing these joints.

The research group is looking for a PhD (or equivalent) researcher interested in participating in these activities development.

Official deadline for the call: 12 September 2018

Deadline for expressions of interest: 15 June 2018

Anticipated duration of the project: One or two years.

Stage of Development

Proposal under development

Keywords

Technology

01003003	Artificial Intelligence (AI)
02006001	Materials, components and systems for construction
02006006	Construction engineering (design, simulation)
02007008	Iron and Steel, Steelworks
07002005	Wood Products

Market

02007016	Artificial intelligence related software
02007020	Artificial intelligence programming aids
09003001	Engineering services
09007001	Construction companies

NACE

M.72.1.1	Research and experimental development on biotechnology
M.72.1.9	Other research and experimental development on natural sciences and engineering

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

University

Year Established

0

Already Engaged in Trans-National Cooperation

No.

Client Country

Spain

Partner Sought

Type and Role of Partner Sought

- Type of partner sought:

Researcher with a PhD degree or equivalent research experience in the field of the project. She/he should not have resided or carried out the main activity in Spain for more than 12 months in the last 3 years before the 12th of September of 2018.

- Specific area of activity of the partner:

Design techniques for structural analysis, including joints.

- Task to be performed:
Develop the activities of the research project for 1-2 years.
- EU / International project experience:
Desired but not compulsory.

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

Marie Skłodowska-Curie Actions

Call title and identifier

H2020-MSCA-IF-2018

Coordinator Required

No

Deadline for EOI

15 Jun 2018

Deadline for Call

12 Sep 2018

Attachments

Research & Development Request

H2020-MSCA-IF-2018: Researcher needed for analysing the link between Alzheimer's disease and obesity

Summary

A research group of a university located in the north of Spain is looking for researchers in the area of neurosciences and/or obesity and metabolism within the framework of the Marie Skłodowska-Curie Actions - Individual Fellowships (H2020-MSCA-IF-2018) programme. The researcher will have to study the plausible link between metabolic disturbances (obesity and insulin resistance) and Alzheimer's disease.

Creation Date	24 May 2018
Last Update	25 May 2018
Expiration Date	15 June 2018
Reference	RDES20180524002
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/f9b59ff1-c215-4c4d-aa0f-929bbd7802c5

Details

Description

A university is part of a cluster with a tight collaboration of excellent research centers and a university clinic. The cluster provides access to facilities and opportunities for collaborations. A research group related to pharmacology and toxicology has a long and comprehensive experience in animal behaviour and they are working in the identification, molecular understanding and therapeutic targeting of risk factors that could precipitate the onset and progression of Alzheimer's disease (AD).

Although in the past their research focused in stress as risk factor for AD, their investigation derived the group's scientific interest towards the study of the plausible link between metabolic disturbances (obesity and insulin resistance) and AD. Therefore nowadays the research group tries to define the role of obesity as well as neuronal insulin action and resistance in control of memory formation, the progression of neurodegenerative diseases including AD and a whole range of age-related pathologies. Moreover, they try to elucidate the possible role of inflammatory pathways as the link between obesity and AD.

The university is looking for a PhD (or equivalent) researcher interested in developing these research activities. The researcher will have access to extensive previous experience and analysis techniques that will enrich her/his research background. The university offers excellent working conditions, financial support for research and international networks.

Official deadline for the call: 12 September 2018

Deadline for expressions of interest: 15 June 2018
Anticipated duration of the project: One or two years.

Keywords

Technology

06001010	Gerontology and Geriatrics
06001014	Neurology, Brain Research
06001016	Physiology
06002002	Cellular and Molecular Biology

Market

05005003	Endocrinology
05005005	Geriatrics

NACE

M.72.1.1	Research and experimental development on biotechnology
M.72.1.9	Other research and experimental development on natural sciences and engineering

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

University

Year Established

0

Already Engaged in Trans-National Cooperation

Yes

Client Country

Spain

Partner Sought

Type and Role of Partner Sought

- Type of partner sought:

Researcher with a PhD degree or equivalent research experience in the field of the project. She/he should not have resided or carried out the main activity in Spain for more than 12 months in the last 3 years before the 12th of September of 2018.

- Specific area of activity of the partner:

Neurosciences and/or obesity and metabolism.

- Task to be performed:

Develop the activities of the research project for 1-2 years.

- EU / International project experience:

Desired but not compulsory.

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

Marie Skłodowska-Curie Actions

Call title and identifier

H2020-MSCA-IF-2018

Coordinator Required

No

Deadline for EOI

15 Jun 2018

Deadline for Call

12 Sep 2018

Attachments



Research & Development Request

H2020-MSCA-IF-2018: Researcher needed for the development of disruptive solutions in the integration of building services and energy systems in architecture and urbanism

Summary

A research group of a university located in the North of Spain seeks a researcher to be candidate for HORIZON 2020 – MSCA / Individual Fellowships (H2020-MSCA-IF-2018). They are looking for a motivated candidate who wishes to develop alternative and/or disruptive solutions in the integration of building services and energy systems in architecture and urbanism (theoretical and/or practical developments).

Creation Date	24 May 2018
Last Update	25 May 2018
Expiration Date	15 June 2018
Reference	RDES20180524003
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/b9d997f3-dbd9-4d7a-89c2-fc4f30798d25

Details

Description

A research group of a Spanish university has been working for years on projects that involve the integration of building services and energy systems in complex architectural cases. Building services involve fire safety, water management, electricity, data networks, HVAC (Heating, Ventilation, Air Conditioning) and renewable energies.

These research works include architecture and urbanism, history and biology, learning and complex buildings, although this is not a mess, but a puzzle where the keyword is integration. The UNESCO research lines are: 241109 - Regulation of human temperature; 330500 - Construction technology; 330503 - Large buildings and skyscrapers; 330506 - Civil engineering; 330517 - Industrial and commercial buildings; 330537 - Urban planning; 330800 - Environmental engineering and technology; 3322 - Energy technology; 332900 - Urban planning; 550601 - History of architecture; 550624 - History of technology; 580100 - Educational theory and methods.

Since 2009, the team has participated in 9 research projects: 5 private, 1 regional, 2 national and 1 European, with an income of over 600,000 euros. The activity of the team has allowed the publication of more than 28 articles in indexed journals, 22 books or book chapters, and 53

collaborations in congresses.

They are looking for a PhD (or equivalent) researcher interested in participating in these activities development.

Official deadline for the call: 12 September 2018

Deadline for expressions of interest: 15 June 2018

Anticipated duration of the project: One or two years.

Keywords

Technology

02006003	Fire Resistance/Safety
02006004	Installations related to construction (energy, lighting, ...)
02006006	Construction engineering (design, simulation)
04002012	Other energy related machinery
04007001	Energy management

Market

06003008	Other alternative energy
06003010	Distributed power and grid connection
09003001	Engineering services
09007004	Engineering and consulting services related to construction
09007005	Facility management companies

NACE

M.72	Scientific research and development
M.72.1	Research and experimental development on natural sciences and engineering

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

University

Year Established

0

Already Engaged in Trans-National Cooperation

Yes

Client Country

Spain

Partner Sought

Type and Role of Partner Sought

- Type of partner sought:

Researcher with a PhD degree or equivalent research experience in the field of the project. She/he should not have resided or carried out the main activity in Spain for more than 12 months in the last 3 years before the 12th of September of 2018.

- Specific area of activity of the partner:

Integration of fire safety, water management, electricity, data networks, HVAC or renewable energies in complex architectural cases.

- Task to be performed:

Develop the activities of the research project for 1-2 years.

- EU / International project experience:

Desired but not compulsory.

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

Marie Skłodowska-Curie Actions

Call title and identifier

H2020-MSCA-IF-2018

Ref: RDES20180524003

Coordinator Required

No

Deadline for EOI

15 Jun 2018

Deadline for Call

12 Sep 2018

Attachments
