

(EIT 17264 and 18048) RISE SICS Call
for Sub-granting on task A1702,
A1703, A1802 and A1803: Machine
learning and visualisation platform
for analysis and classification of
human movement

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education

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1. Introduction and General Context

This document describes a sub-granting proposal offered to eligible contractors by RISE SICS in the context of the project “Machine learning and visualisation platform for analysis and classification of human movement”, supported by EIT Digital in its Digital Wellbeing action line.

The goal of RISE SICS inside the project is to develop a machine learning platform for analyzing human movement data that has been gathered through sensors.

Contractors are requested to provide evidence of expertise with the activities that are subject of this sub-grant, in particular expertise in technology that gathers movement data and in using this data for developing machine learning algorithms.

The remaining of this document will describe in more details the different aspects of the sub-grant, including the amounts, the evaluation criteria, the expected timeline and IPR issues.

2. Details

2.1 Sub-granted Activities and Budget

Movement related disorders are often detected late leading to high costs and unnecessary suffering. In the project we are developing a platform that will provide machine learning algorithms for analyzing human movement with the aim to prevent negative work related outcomes. A visualisation platform will also provide decision support for health providers and self-managing patients.

In previous work a software for capturing body movements have been developed. This project will continue gather movement data and develop the machine learning platform. As a part of the work the project needs highly specialized expertise that combines knowledge in physiotherapy, technology that gathers movement data and data analyses.

In details, the offered sub-grant will part of the following tasks during 2017: 17264-A1702 Data gathering and 17264- A1703 Development of ML platform; and during 2018 the offered sub-grant will be a part of the following tasks: 18048- A1802 Data gathering and 18048- A1803 Development of ML platform.

The ML platform that will be developed should meet the following requirements:

- Secure integration with a database containing 3D motion capture data

- Secure integration with other sources of metadata concerning health
- Compliance with Data Protection regulations
- Ability to clean data, identify systematic error, and suggest corrective strategies
- Ability to perform unsupervised analysis and visualisation of data using a variety of modelling methods
- Ability to perform supervised analysis and visualisation of data using a variety of mathematical and human movement science driven models
- Ability to create novel algorithms and describe human movement insights in the form of algorithms for ongoing analysis
- Ability to report insights in way that is useful for concept development and technical development

The sub-granted activity will consist in the development of this system.

2.2 Evaluation Criteria

The grant will be awarded to a company with expertise in motion capture software development and deployment, human movement science/rehabilitation/ergonomics and digital design. The company must have an existing database of 3D motion capture data and the possibility to contributing data in the future.

The organization receiving the grant will be selected, according to the selection rules of grantor, on the basis of its proven experience and portfolio of previous works. A preferential criterion is the availability to meet the sub-granter (RISE SICS) frequenting the EIT Digital Stockholm Satellite, for alignments. The EIT Digital KIC Partner (RISE SICS) shall give financial support for the KIC added value Activity carried out by the Sub-grantee, within the limits specified by the Annual Grant Agreement.

The maximum amount of sub-grant under this Agreement is € 60 000.

Candidate contractors are welcome to apply for the maximum granted amounts. In case of equitable portfolio and proven expertise, the preference will be given to the candidates guaranteeing more features and meeting the preferential criteria above exposed.

2.3 Timeline

- The sub-granting procedure and activities will take place on the basis of the following timeline:
- October 23rd, 2017: publication of the present sub-grant call;
- October 30th, 2017: deadline for candidate contractors to apply;
- November 6th, 2017: contractor selection and engagement;
- November 7th, 2017: start of the activities for 2017;
- December 31st, 2017: end of main activities and reporting activities for 2017.
- January 1st, 2018: start of activities for 2018
- December 15th, 2018: end of main activities for 2018;
- December 22nd, 2018: end reporting activities for 2018.

2.4 Budget and Cost Reporting

The funding is 100% on a cost basis, and the budget of the sub-grant is up to maximum of € 60 000.

The contractor will be allowed to claim this funding up to the maximum of € 60 000, on basis of cost claim. After delivery of the work and after funding has been given to RISE SICS the contractor can claim the funding. This claim could be made one time for the work conducted in 2017 (35.000 €) and one time for the work conducted during 2018 25.000 €. The reports will be verified and approved by RISE SICS; eventual iterations between the contractor and RISE SICS may occur to refine the report within the above established end of reporting activities.

2.5 Traveling and logistics

Most of the sub-granted activities are expected to be performed by contractors in their offices, while most of the interactions with the sub-granter will occur by audio/video conference or electronic means (e.g. e-mail, shared folders, etc.). Nevertheless, face to face meetings are expected to take place in Stockholm (Sweden), at the co-location center of EIT Digital, for the kick-off of the activities and the following discussion of the requirements details. The contractor will be also required to travel to Stockholm for the activity alignments at least once every 2 weeks of activity. All travel expenses are considered already included into the budget and extra travelling costs will not give right to additional funding/reimbursements.

2.6 Interactions with the KIC partners and Management of the Service

The contractor is requested to ensure the continuous interaction with the involved partners of the activities in order to discuss the requirements, contribute in the service design and approve/check the choices. Some features and technical aspects of the system will be discussed in the first phase of the activities.

2.7 IPR issues

Intellectual Property Rights will be discussed directly with the selected sub-grantee, following EIT Digital Guidelines.

2.8 How to Apply?

Responses to this call shall be sent to marie.sjolinder@ri.se

Response shall include the following information:

- Description of the company, relevant competences and experiences
- Contact person
- Requested budget and motivation
- Agreement to move to the appointed EIT Digital satellite, to have meetings with the sub-granter, as stated in 2.5
- Agreement to respect the proposed project timeline (see 2.3)

Candidates will be evaluated with respect to their competences/experiences and their ability to complete the task according to the timeline of the project.

2.9 Information and Contacts

For more information on this call, please contact Marie Sjölander, RISE SICS (marie.sjolinder@ri.se).