

## SOLSA CHALLENGE: PUBLIC STUDENT SELECTION NOTICE

### INTRODUCTION

SOLSA Challenge (hereinafter, "Challenge" or "Initiative") is an initiative of Fondazione – Hub Innovazione Trentino in collaboration with other Project Participants in the framework of project SOLSA - DEMonstration & Market Uptake (hereinafter, "SOLSA Dem'UP"), financed by the EIT RawMaterials, PROJECT AGREEMENT NO <21092>.

The Initiative has dissemination, knowledge and training purposes. The main objective is to support the triangle interaction closing of effective links between education, research, and innovation and ensuring knowledge transfer, uptake and commercialization of novel technologies and results by the industry, in an open innovation context:

- allowing Project Participants to explore innovative solutions in the field of mining industry, that comprise also automation, sonic drilling technologies and real time samples analysis and communication;
- enabling university students to apply their competences to industrial problems and challenges, thus improving their own preparation (Challenge-Based Learning);
- offering teachers, researchers and Project Participants opportunity to disseminate and transfer their knowledge and technological know-how.

The activities of the Initiative will be carried out by students and young competent researchers (hereinafter, "Solver"): they will work in a group to analyze the challenge, presented by the Project Participants, and develop solutions that converge into a product (hereinafter, "Products"). Solver groups will be supported by professional mentors.

### ART. 1 – SUBJECT OF NOTICE

This Notice is aimed at selecting Bachelor, Master, or Ph.D. students, who will have access to the SOLSA Challenge as Solvers. The Solvers, assisted by mentors involved by Project Participants, will be called to carry out engineering activities (hereinafter, "Activities") on Products submitted by the Project Participants and selected by the Project Participants.

Specifically, by way of example, we mean:

- *Products*: mechanical parts or subsystems, software, database, design, business model related to the mining industry, with characteristics (exemplary, non-mandatory) such as the following:
  1. 3D design, layout, sketches;
  2. characterization protocols;
  3. software, algorithms, libraries;
  4. digital marketing models.

- *Activities:*
  1. 3D modeling; kinematic modeling; use of specialized CAE software; use of technical computing;
  2. analysis of data aimed at the production of intelligent systems; evaluation of the quantity and quality of available data; data analysis with advanced statistical methods; machine learning; creation of predictive models;
  3. use of multi-paradigm programming language, numeric computing and technical computing;
  4. drafting documents, report, presentations.

## **ART. 2 – CONDUCT OF THE CHALLENGE**

The Challenge involves groups of Solvers (hereafter, "Teams"), working in parallel over the course of nine weeks or so to carry out the above Activities on Products and selected to participate in the Challenge. For each Product, there will then be a dedicated Team, working independently, albeit assisted by a mentor who will support them in carrying out the Activities and producing a short final report containing suggestions for optimizing the assigned Product (hereafter, "Results"). The selection of the Solvers, the creation of the teams and their training will be carried out by the Project Participants.

The Challenge will be organized according to the following schedule:

- Tuesday 18 April 2023: kickoff meeting aiming at presenting the Products and optimization objectives to the Solver groups by the selected companies;
- 18 April 2023 to 20 June 2023: approximately 9 weeks during which the teams will carry out the Activities independently, in collaboration with the selected Project Participants, assisted by mentors;
- Late June 2023 - date to be defined: final event with the presentation of the Results in a private session to the Project Participants and, subsequently, in an abbreviated version without confidentiality content to an invited audience of insiders.

At the end of the presentation, an expert commission appointed by the Project Participants will evaluate the results presented by each group of Solver and will formulate a ranking based on the following criteria:

- Criterion 1: innovativeness of the results produced (from 1 to 5 points).
- Criterion 2: potential business impact of product results (from 1 to 5 points).
- Criterion 3: effectiveness of the presentation of the results (from 1 to 5 points).

The final evaluation score for each Outcome will equal the sum of the scores on the previous criteria multiplied by the difficulty coefficient of the Challenge, defined by the committee that will evaluate the Outcomes.

Each member of Solver's group that will have scored highest in the ranking will receive an e ink tablet. The Project Participants reserves-at its sole discretion-the right to change the type of award should it see fit. In the case of a tie score, the Solver group that will have scored the highest score in criterion 2 will prevail.

All Solvers who complete the Challenge will receive a certificate of participation in the initiative issued by project Participants. The Solvers who will complete the SOLSA Challenge have the possibility to ask to their organization the acknowledgement of F-type credits (European Credit Transfer and Accumulation System) in compliance with internal procedures.

### **ART. 3 – APPLICATION FORM AND PRESENTATION METHOD**

Students interested in participating in the SOLSA Challenge must complete the application form available at the link <http://bit.ly/3LrQyEb> and published at the page <https://www.trentinoinnovation.eu/en/solsa-challenge-2023> and send their curriculum vitae to the email address provided in the application form by **Wednesday 28 March 2023 at 23:59 CEST** – server time. Applications received after the deadline indicated above or whose form is not complete in its entirety will be considered inadmissible.

### **ART. 4 – METHOD OF SELECTION OF PARTICIPATION APPLICATIONS**

Beside sending a full application within the deadline, a further admissibility requirement to apply to participate in the Challenge as Solver is:

- to be enrolled at a higher educational institution based in EU Member States or Third countries associated to Horizon Europe (ref. <https://bit.ly/3w0mwOS>) which expected learning outcomes is level 6, level 7 and level 8 of the EQF European Qualifications Framework (EQF) (ref. <https://bit.ly/3kcMNqr>); as a basic reference Level 6 = Bachelor's degree, Level 7 = Master's degree, Level 8 = Doctorate degree.

Once the presence of the admissibility requirements has been verified by Project Participants, Project Participants will identify the students that will be invited to participate in the Challenge as Solver on the basis of their curriculum vitae and the stated competences that needs to be aligned with the Initiative.

By **14 April 2023**, candidates will receive an email notification regarding the results of the selection process. Within 3 days of receipt of such email communication, the selected candidates will have to confirm their own participation replying to the email. In the absence of such confirmation, the Project Participants will propose participation in the Initiative to the candidate in a provisional state.

### **ART. 5 – CONFIDENTIALITY**

Solver undertakes to keep confidential data and information regarding companies and products selected, except for the following company data and information: company name, website URL, sector of reference, brief description of the entrepreneurial activity, name of the Product. Furthermore, the Solver also undertakes to keep the results

confidential and not to disclose them in any way, subject to the different written consent, even partial, of the company concerned.

This confidentiality restriction remains for two (2) years from the date of commencement of the Challenge.

#### **ART. 6 – INTELLECTUAL PROPERTY**

The results of the challenge will belong to the Participants of SOLSA Dem'UP project, without prejudice to the right of the Solvers to be recognized as authors or inventors. By participating to the Challenge, the Participants of SOLSA Dem'UP project authorize Solvers to mention their participation to the Challenge in their CV and portfolio, making express reference to SOLSA Dem'UP project for which they carried out the Activities.

#### **ART. 7 – ABSENCE OF GUARANTEES. EXEMPTION OF LIABILITY**

The results are presented by the Solvers and accepted by the Project Participants "as is". Neither the Project Participants nor Solver provide no representation or guarantee that the Results (i) are of a certain quality technique; (ii) are suitable for a particular purpose; (iii) do not violate third party rights or subjective positions legally protected.

Neither Project Participants nor the Solver take any responsibility for the correctness, validity, originality and quality of the results, which will be considered in complete autonomy by the company.

The participating companies (part of the Project Participants) expressly exempt the other Project Participants companies and the Solvers from any direct damage, indirect, incidental, consequential, punitive or moral deriving from participation in the Challenge or from the use of the results.

We reserve the right to interrupt or cancel at any time the initiative without notice in case the project is not funded by the EIT RawMaterials.

#### **ART. 8 – PROCESSING OF PERSONAL DATA**

Pursuant to art. 13 of the GDPR 2016/679, we inform you that all the data that will be held by HIT in carrying out the procedure provided for in this Notice, they will be used exclusively for the purposes specified therein and will be processed with the aid of information systems in full compliance with the aforementioned legislation. The data will not be communicated or disclosed to third parties. The owner of the treatment is HIT, in the person of the legal representative pro tempore, which you can contact for the exercise of the envisaged rights, including the right of access to data, of integration, rectification and cancellation. For the vision of the complete information, see our privacy policy ([https://www.trentinoinnovation.eu/wp-content/uploads/2023/03/SOLSA-Challenge\\_Informativa-Privacy\\_ENG.pdf](https://www.trentinoinnovation.eu/wp-content/uploads/2023/03/SOLSA-Challenge_Informativa-Privacy_ENG.pdf)).

#### **ART. 9 – AUTHORIZATION TO PUBLISH YOUR OWN IMAGE**

Solvers agree that Project Participants can publish their image on any form of support (press, websites, and the like) for the sole purpose of promoting and publicizing the Challenge. The Project Participants agrees to do not use any image in such a way that

may harm or impair personal dignity or in any case for purposes other than those indicated therein and / or contrary to the law.

**ART. 10 – TREATMENT OF PRIZES**

The initiative is to be considered part of the category "projects or studies in the commercial or industrial field, in which the awarding of the prize to the author of the chosen work is in the nature of a consideration for the performance of the work or represents recognition of personal merit or a title of encouragement in the interest of the community" pursuant to art. 6 D.P.R. 26 October 2001, no. 430.

**ART. 11 – RESPONSIBLE FOR THE PROCEDURE**

The person in charge of the procedure pursuant to the LP n. 23/1992 and s. m. and i.: Dr. Luca Mion.

Trento, 09 March 2023

Prot.

Luca Mion

Head of Innovation and Techtransfer  
Hub Innovazione Trentino – Fondazione



Firmato digitalmente da:

**MION LUCA**

Firmato il 09/03/2023 12:44

Seriale Certificato: 2022298

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InfoCamere Qualified Electronic Signature CA