



## ROSIN Education Projects Applicant Guide

ROSIN Education Board

Public Version 1.0



This project is funded by the European Union's Horizon 2020 research and innovation programme under grant agreement No 732287.

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## 1 General information

ROS is of great value and almost immediate applicability for service robotics: in fact, the overwhelming majority of today's service robots run on ROS. ROS-Industrial aims to transfer this value and the ease of application to industrial hardware, by developing new components, improving existing ones, but also by performing non-development work such as compiling usage and development guidelines or performing license audits.

The bigger the ROS-Industrial community and the higher its engagement in actively using and further developing it, the more business-relevant and hence successful the platform will be. What is more, ROS-Industrial end-users as well as developers need to be well-educated to make full use of the potential of ROS-Industrial.

## 2 Available support from ROSIN

We provide two benefits to the community thanks to ROSIN funding: the possibility to have part of their project's cost financed, and shepherding to ensure that the content and infrastructure of the proposed project fits within the bigger ROS and ROS-Industrial education picture.

EPs offer fundings for of projects in one or more of the following categories:

- Setting up training centre funded with up to 30000 EUR,
- Software development to support ROSIN trainings with up to 15000 EUR,
- Generation/Improvement of training material (tutorials/slides) with up to 2500 EUR.

EPs are brought into being for accelerating ROS educational activities for industrial approaches within the H2020 ROSIN project. Interested applicants (e.g. industrial professionals, universities) get the possibility to receive funding in order to implement their own ROS-Industrial-related educational projects. These projects can, for example, include the representation of a particular approach in industrial scenarios which may yet be rather unknown in the ROS world.

To this end, a part of the ROSIN budget (300.000 EUR) is reserved for co-financing Educational Projects (EPs): you identify a particular project that you want to support the ROSIN educational activities with and outline a sound and sustainable plan to achieve it. If successfully evaluated, you receive 50% of the total cost to perform the work, provided that you commit to sustain the remaining 50%.

Beginning from 01/08/2018, there will be three cut-off dates for submitting proposal per year, i.e. every four months the Education Board will decide on the submitted applications.

## 3 How to apply

The submission of an EP proposal will consist of a single step process to submit the EP application to the Online Submission System managed by ROSIN.

Interested parties have to apply for the funding by providing information about:

1. The registered applicant
2. Project description
3. EP execution / implementation
4. Signed Commitment

After positive notification of the application the registered applicant has to finish the proposed project within two to three Milestones depending on the type of activity.

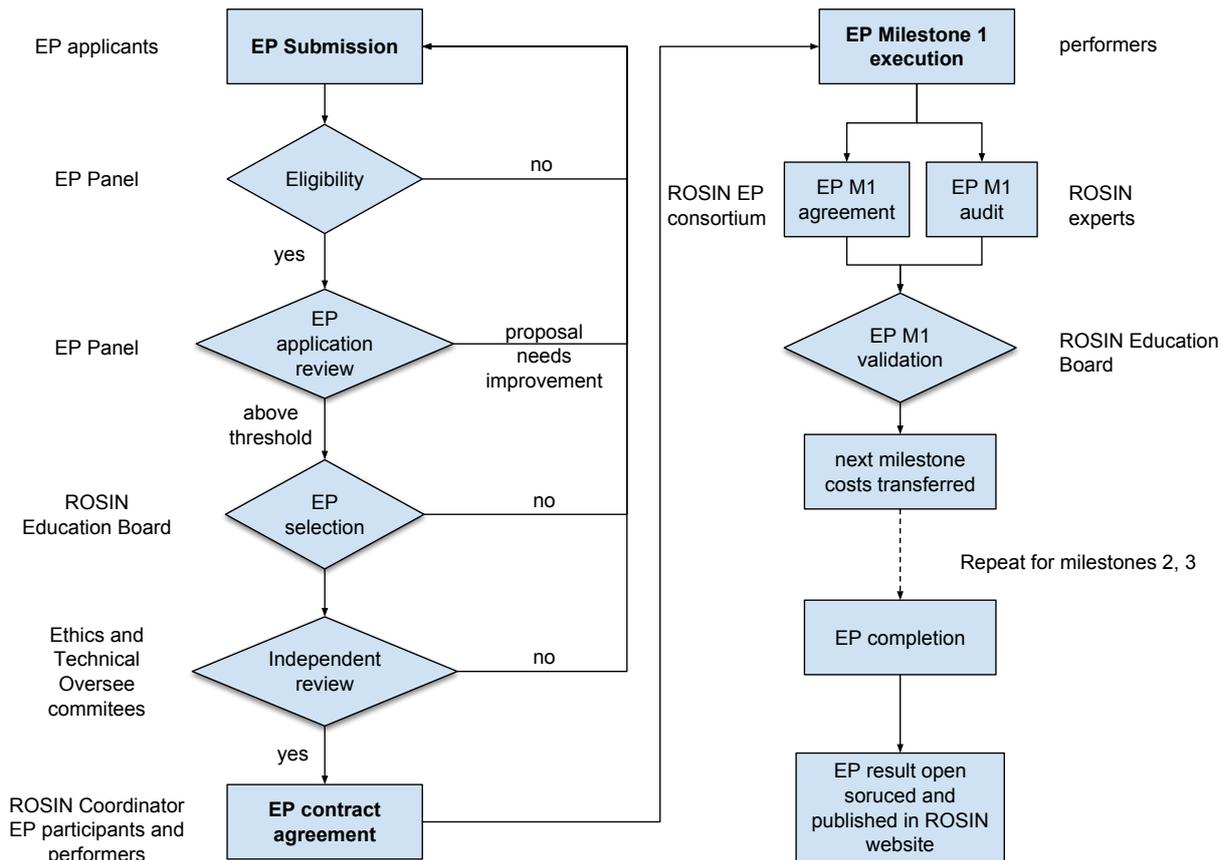


Figure 1: EP General Process

## A EP Application

### A.1 Part A: Application Form

Information completed by the champion registering the EP (Education Project) proposal in the online submission system:

1. Contact information

- First name
- Last name
- Email
- Phone number

2. Organization (legal entity) (to be filled by each FTP participant)

- Organization name
- Address (street and number)
- City
- State/County
- Country
- Zip code/Postal code
- NIF/CIF/VAT Number
- Organization type (select, EXCLUSIVE)

3. Project category (select all applicable categories)

- Setting up training centre
- Software development to support ROSIN trainings
- Generation of Training material (tutorials / slides)

4. Project short description to be published (max. 10 lines)

5. Concept proof

- The applicant assures that the funding is used to support the ROSIN Education Concept to meet the following criteria:
- The funded project assures to support 20 or more participants successfully completing a ROS-I training
- The outcome of the funded project is in line with the general goals of the ROSIN project.
- The training material has to be licensed under CC-BY-ND-NC
- The outcome of the funded project can also be used for training purposes after ROSIN

6. Ethics

The applicants need to ensure that their FTP proposal meets the ethics requirements of Horizon 2020, and that they will continue to be compliant during the period of execution of the FTP. (Checkbox) The work done in this FTP does not involve:

- Human Embryonic Stem Cells (hESCs)
- Human participants as test subjects
- Human cells or tissues (other than from Human Embryos/Foetuses)
- Personal data collection and/or processing, or further processing of previously collected personal data ('secondary use')
- Animals
- Research procedures that may cause pain, suffering, distress or lasting harm to live non-human vertebrate animals
- Import or export of any material from third countries to/from the EU
- The use of elements that may cause harm to the environment, animals or plants
- Endangered fauna and/or flora /protected areas

- The use of elements that may cause harm to humans, including research staff
- Risk for the individuals taking part in the project due to the situation in their country
- Military applications
- Risk for terrorist abuse of results

In the case of your Education Project involving one of the previously listed cases, applicants must follow the ethics self-assessment guide<sup>1</sup> published by the EC, and provide the necessary details as tabularized in that document by attaching a PDF document. For example, when the EP would concern a software component for face recognition and storage of personal data, details must be provided on the safe encryption of the storage and informed consent forms must be stored, amongst other things.

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<sup>1</sup>[http://ec.europa.eu/research/participants/portal/doc/call/h2020/h2020-msca-itn-2015/1620147-h2020\\_-\\_guidance\\_ethics\\_self\\_assess\\_en.pdf](http://ec.europa.eu/research/participants/portal/doc/call/h2020/h2020-msca-itn-2015/1620147-h2020_-_guidance_ethics_self_assess_en.pdf)

## A.2 Part B: project description (max. 2 pages)

### 1. Problem statement

- What need is the EP addressing?
- What's the need - why do you think the project serves ROS education?
- What is the expected impact of the proposed EP?

### 2. Feasibility and Sustainability of the project.

- Is the proposed project *feasible*:  
E.g. is there sufficient demand for a training centre in the region, is there sufficient interest in the proposed software or tutorial?  
How do you plan to attract people to the project (attendees for training centres / users of a software / interested parties for a tutorial)?
- How is the proposed project *sustainable*:  
ROSIN will only fund initiatives that can clearly show a feasible sustainability plan after ROSIN fund.

### 3. Background

- Research into existing regional training centres/software/training documentation → why a new one is needed / deemed desirable

### 4. Objectives

- General objectives addressed by the EP in view of the problem and challenges

### 5. Expected Outcome

- Concrete results expected from the EP

### 6. Expertise - why are you qualified to do the EP you propose (Teaching / Software experience)

### 7. Explanation of teaching approach - why is the intended project a good resource for educational activities with ROS?

### A.3 Part C: EP execution / implementation (max. 2 pages)

#### 1. EP work plan

- What tasks are necessary to implement your EP?
- Who performs each task? Why?  
Explain how the experience and competences of the performers are suited for the tasks.
- Which are your milestones and how do they contribute to achieve the final project goal? Which tasks contribute to which milestone?
- Project schedule: for each task, clearly indicating when each milestone will be achieved

#### 2. Project Budget:

The EP holder is responsible to ensure payment of remaining milestones according to the EP budget explained in this section.

- Specification of type of cost
- Total cost

#### 3. Quality Assurance

The applicant has to define a set of measurable outcomes of the EP.

- E.g. for training centre setup: “The training centre will host N trainings per year”
- E.g. for software development: “The proposed software enables ROS usage on system X” (in case a training centre wants to teach ROS on an individual system)
- E.g. for training material creation; “After performing the tutorial the trainee has to be able to set up the ROS Driver for robot XY”.

#### 4. Business plan

Explain in detail your plan to sustain the activity after ROSIN funding. E.g. who will be maintaining the different outcomes of the project.

## A.4 Part D: Signed Commitment

There must be a signed commitment that the applicants will pay for all additional costs to the costs funded by ROSIN. The commitment should be a contract with the following agreements:

- The Education is divided in two milestones by default.
  - The ROSIN Education Board can decide to split big projects in three Milestones after the application.
- Budget will be transferred as follows:
  - for two Milestones:
    - 50% for the project start,
    - 30% after the 1. Milestone,
    - 20% after project end
  - for three Milestones:
    - 50% for the project start,
    - 20% after the 1. Milestone,
    - 20% after the 2. Milestone,
    - 10% after project end
- The maximum budget depends on the project category mentioned in Part A.3:
  - Setting up training centre: up to 10000 EUR + 5000 EUR per five training seats (maximum up to 30000 EUR)
  - Software development to support ROSIN trainings: up to 15000 EUR
  - Generation of Training material (tutorials / slides): up to 2500 EUR

## B Evaluation Criteria

Project proposals will be evaluated by the Education Board according to the criteria given in Table 1.

Item	Name	Points
A5	Concept Proof	0-3
A6	Ethics	0-1
B2	Sustainability of the project	0-3
B3	Background	0-3
B5	Expected Outcomes	0-2
B6	Expertise	0-3
C1	EP Work plan	0-2
C2	Project Budget	0-3
C3	Quality Assurance	0-3
C4	Business Plan	0-2
<b>Sum</b>		<b>0-25</b>

Table 1: Evaluation Criteria

Exclusion criteria: A6<1, B<6, C<5