

Announcement of an open call for recipients of financial support

Project full name: Composable Models and Software for Robotics Systems

Project acronym: RobMoSys

Project grant agreement number: 732410

Call name: Second RobMoSys Open Call

Call identifier: RobMoSys-SROC

Language in which proposal should be submitted: English

Web link for further information: <https://robmosys.eu/open-call-2/>

Email address for further information: opencalls@robmosys.eu

Project RobMoSys, co-funded from the European Union's Horizon 2020 research and innovation programme under grant agreement No 732410, foresees as an eligible activity the provision of financial support to third parties, as a means to achieve its own objectives.

RobMoSys's main goal is to create and consolidate an EU Digital Industrial Platform for Robotics to establish a common methodology for model-based software development, improve tools and foster interoperability by model interchange and composability. The Open Calls for Contributions to RobMoSys is one of the means implemented to achieve this goal.

The First RobMoSys Open Call, which was open from July 2017 to October 2017, has funded six Integrated Technical Projects (ITPs) with a focus on strengthening the RobMoSys platform with better metamodels, tools and models.

The Second RobMoSys Open Call focuses on the following aspects:

- **Industry-Driven Ecosystem.** RobMoSys defines a model-based ecosystem of assets and services to help the robotics industry to improve their software/system engineering practice. We look for proposals joining us in our effort to create this ecosystem and to demonstrate with real industrial cases your own success story.
- **Towards a Strong RobMoSys Community.** We call for expert groups willing to be coached by members of the RobMoSys core consortium, in order to implement the RobMoSys concepts. Successful applicants must be ready to advance the RobMoSys way of thinking, and to go for real world examples in line with the RobMoSys industrial pilots (developed by the RobMoSys core consortium).

The second call for proposals in RobMoSys embraces four (4) different *Instruments*. An instrument is a type of RobMoSys third-party contract characterized by a profile of contributions, a funding scheme, distinctive expected results and hence different evaluation criteria.

Instrument #1: Fast Adoption

With this instrument, RobMoSys wants to boost a fast adoption of the RobMoSys approach in industry. It focuses on SMEs and small teams in large industrial companies, target groups ranging from software component suppliers to robotics system builders. The funded ITPs must develop RobMoSys-conformant pilots (industrial case studies) based on existing assets (software and tools from the RobMoSys ecosystem), or provide software components conformant to the RobMoSys pilots.

Instrument #2: Ecosystem Challenges

This instrument aims at strengthening the RobMoSys ecosystem with in-depth developments on the RobMoSys baseline (models, tools, components, architectural patterns). Submissions of ITPs must fit one or more of the following technical topics:

- Topic 1: ROS 2 and Model-Driven Software Development
- Topic 2: Functional composition inside components
- Topic 3: System level composition / safety
- Topic 4: System level predictability of properties, Navigation
- Topic 5: System level predictability of properties, Manipulation
- Topic 6: OPC UA Robotics
- Topic 7: Open topic

Further details on each of these topics can be found at the abovementioned link for the second call.

Instrument #3: Innovation Expert Intake

This instrument looks for proposals from legal entities offering expert services in order to push innovation and strengthen the RobMoSys community. Applications can focus on supporting the RobMoSys Academy or the RobMoSys technology. Herewith, experts must be willing to familiarize themselves with the RobMoSys approach, to actively participate in technical workshops, to meet with RobMoSys partners in their labs, to contribute to the RobMoSys community building, or involvement in specific ITPs.

Instrument #4: Media Production of Academy Showcases

The goal is to support the media production of showcases as well as the education activities within the RobMoSys Academy. We are looking to contract one (1) organization to provide media snippets. The rest of the budget (see below table) will be spent on the production of educational topics, to enrich the RobMoSys Academy with training programs, webinars, flipped classroom content, and the like.

Summary of main information per instrument

Instrument	Instrument #1	Instrument #2	Instrument #3	Instrument #4
Expected runtime	Max 6 months	Max 12 months	Max 6 months	Max 6 months
Total Indicative Budget	500 KEUR	1.600 KEUR	200 KEUR	250 KEUR
Max Funding per Proposal	60 KEUR	300 KEUR	20 KEUR	50 KEUR
Cut-off dates	April 30, 2019 October 30, 2019	April 30, 2019	April 30, 2019 October 30, 2019	April 30, 2019 October 30, 2019