

Quantum Space Gravimetry topic

Horizon Europe

● PENDING

Code

HORIZON-CL4-2027-SPACE-03-71

Scope

International

Location

Europe

Curator

Marlene Faria

FINANCIAL DETAILS

Support type

Non-Refundable

Maximum Funding Rate

100%

Budget

29.2M€

Eligible Project Value

14M€ - 15M€

DATES & DEADLINES

Publication Date

Not defined

Opening Date

March 9, 2027

Fase única

September 2, 2027 at 05:00 PM GMT+2

DESCRIPTION

Objectives

This topic aims to strengthen Europe's leadership in quantum technologies for space applications by supporting the development of quantum space gravimetry systems capable of delivering highly precise measurements of the Earth's gravitational field. The action contributes to European strategic autonomy in Earth observation and environmental monitoring by advancing next-generation sensing technologies with applications in climate monitoring, water resource management, geological surveying and environmental protection.

Projects are expected to develop and validate innovative quantum gravimetry concepts, instruments and enabling technologies that can significantly improve measurement accuracy compared to existing solutions. Particular emphasis is placed on reducing technological risks and preparing future space missions that will exploit quantum sensing capabilities.

Funding

Funding is provided under a Horizon Europe Research and Innovation Action (RIA) within the Space Research and Innovation Programme. The topic has an indicative budget of €29.2 million, with the European Commission expecting to fund two projects. The expected EU contribution ranges between €14 million and €15 million per project, although proposals requesting different amounts may be considered where appropriately justified.

As a Horizon Europe Research and Innovation Action, projects are eligible for 100% funding of eligible costs, in accordance with Horizon Europe funding rules.

ELIGIBLE EXPENSES

- Personnel Costs
- Travel costs
- Equipment costs
- Other goods, works and services costs
- Subcontracting
- Indirect Costs

ELIGIBILITY

Application Mode

Consortium / Copromotion

Eligible Sectors

- Industry
- Energy & Environment
- ICT & Software
- Health & Life Sciences
- Mobility & Transport
- Blue Economy
- Aerospace & Defense

Company Typologies

- Micro
- SME
- Small Mid-Cap
- Mid-Cap
- Large
- Non-business entities of the R&I system (ENESII)
- Private non-profit entities
- Public entities

Action Types

- Research and Innovation Actions (RIA)
- Innovation Actions (IA)
- Development of launch systems
- In-orbit servicing and manufacturing
- Earth observation and Copernicus applications
- Digitalization in the space sector
- Quantum technologies for space missions

EU PROGRAMME DETAILS

Call ID	Cluster
HORIZON-CL4-2027-SPACE-03-71	4. Digital, Industry and Space
Destination	Submission Mode
D4. Open Strategic Autonomy in Developing, Deploying and Using Global Space-Based Infrastructure, Services, Applications and Data	Single-stage
EU Contribution	Expected Projects
Around €14.000,000.00 and €15.000,000.00 per project	2
Funding Rate Rule	
Up to 100% of eligible costs for Research and Innovation Actions (RIA)	

OFFICIAL LINKS

Official Regulation

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/HORIZON-CL4-2027-SPACE-03-71?order=DESC&pageNumber=1&pageSize=50&sortBy=relevance&keywords=HORIZON-CL4-2027-SPACE-03-71&isExactMatch=true&status=31094501,31094502,31094503>

Grantavia page

<https://grantavia.com/en/incentives/quantum-space-gravimetry-topic>

Schedule a meeting

<https://calendly.com/sandra-cardoso-epsa/reuniao>