

# Horizon Europe 2021 Call factsheet



## Quantum technologies for space gravimetry

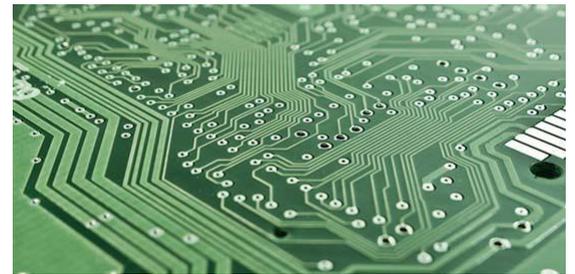
The priority for this topic is the development of the technology leading to the deployment of a gravimeter pathfinder mission based on cold atom interferometry.

### Scope:

- Development of EU technologies and components for a space quantum gravimeter or gradiometer;
- Enhancement of the TRL up to TRL5 for cold atom interferometry components;
- Development of software simulation tools to analyse the different mission concepts linked to these sensors or processing and analysis of the sensor data.

### Topics:

- Support the EU space policy and the green deal by paving the way for the deployment of a future EU Earth observation mission making use of quantum gravimetry;
- Ensure EU non-dependence for the development of capacities leading to the availability of quantum space gravimetry;
- Enhance the TRL of all (critical) components necessary to build quantum gravimetry for space.



The indicative budget for this category is EUR 17.00 (Million).

### Reference:

**HORIZON-CL4-2021-SPACE-01-62**

Research and Innovation

Opening: 28 Oct 2021

Deadline: 28 Feb 2022

Call overview, Produced 04/10/2021. Visit our website [www.opencalls.space](http://www.opencalls.space)

### Countries



*EU member states, Iceland,  
Norway*

### Technology



*Space quantum gravimeter, TRL  
<5, Dataprocessing, Sensor data,  
Interferometry,*

### Activities



*software simulation, analyse  
mission concepts, Technology  
development*

### Contact



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