

# SPACE RESOURCES STUDY

Funding up to €200K per Activity

Deadline: 30 June 2021

## SPACE RESOURCES OPPORTUNITY

The future of space exploration depends on humanity's ability to extract resources in space. While In-situ resource utilisation (ISRU) is a futuristic concept, it has great potential for accelerating key technologies on Earth. This "Space Resources" Invitation to Tender will support teams to develop services on Earth today, which are relevant to future use in space.

## KEY TOPICS OF INTEREST

- **Reducing the Use of Water in Mining on Earth and in Space:** Reducing water use has become a key sustainability challenge for mining operations globally. It is also a key challenge for future ISRU.
- **Using Solar-Powered Mining Machinery:** Solar energy could be an attractive option for powering mining machinery on Earth and in space. Future solar arrays should be agile, efficient and robust.
- **Perfecting Remote and Autonomous Operations:** Autonomous systems, remotely operated vehicles, and specialised robots, are ideal for use in challenging environments on Earth and in space.
- **Developing Light, Agile and Precise Mining Equipment:** Future extraction on Earth and in space should involve low-footprint precision mining, which could rely on swarms of light, nimble machines.
- **Other Relevant Topics:** 3D printing could transform manufacturing on Earth and the future of space resources. Standardised interfaces, nanotechnology, and self-cleaning, compact and dust-proof equipment would also be beneficial to mining operations on Earth and in space.

## WHAT WE OFFER



Zero-Equity co-funding  
up to €200K per activity



Access to our  
Network & Partners



Technical & Commercial  
Guidance



Brand Credibility

## WHAT WE LOOK FOR

- ✓ Motivated teams with business and domain expertise
- ✓ Attractive market opportunities and customer engagement
- ✓ Commercially viable service concepts
- ✓ Technically feasible solutions enabled by space

### Apply Now!

For further information [see here](#).

Official tender documentation: ESA EMITS ([emits.esa.int](https://emits.esa.int))

Submission period: 19 April 2021 – 30 June 2021 at 13:00 CET

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