

Access to Space for All Initiative PHI 1st Round Deep Dive





Access to Space for All Initiative



HANDS-ON COMPONENT

Hands-on opportunities under three tracks



TOOLS COMPONENT

Collection of free and open tools to bridge the hands-on and education components



EDUCATION COMPONENT

Theoretical foundation to participate in the hands-on and utilize the tool component

HYPERGRAVITY AND MICROGRAVITY

Building capacity for conducting experiments in orbit



Hands-on opportunities in hypergravity and microgravity from ground to orbit



Open source tools bridging hands-on and education components



Educational material for building up experiments

SATELLITE DEVELOPMENT

Building capacity that enables the development, deployment, and operation of satellites



Hands-on opportunities for satellite deployment



Open source tools bridging hands-on and education components



Educational material supporting the whole life-cycle of satellites

SPACE EXPLORATION

Broadening the engagement in space exploration



Hands-on opportunities to engage in space exploration



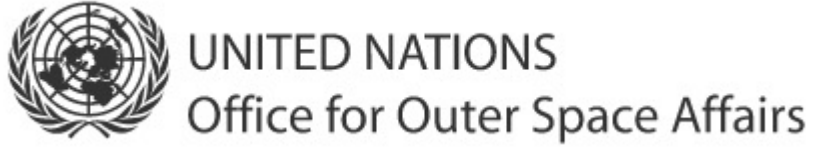
Open source tools bridging hands-on and education components



Educational material for space exploration

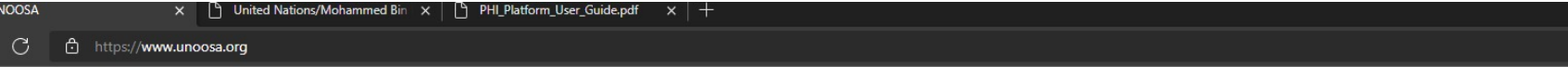


Access to Space for All Initiative - PHI





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UNITED NATIONS
Office for Outer Space Affairs



- About Us
- Our Work
- Space4SDGs
- Information for...
- Events
- Space Object Register
- Documents
- COPUOS 2022

- Secretariat of COPUOS
- Programme on Space Applications
- UN-SPIDER
- International Committee on GNSS
- UN-Space
- UNISPACE+50
- Space Law
- Benefits of Space
- Space4Health
- Access to Space for All
 - For Member States
 - Partnerships
 - Opportunities
 - Hypergravity/Microgravity Track
 - Satellite Development Track
 - Space Exploration Track
 - Awardees
 - Acknowledgement
- Space for Persons with Disabilities
- Space4Youth
- Space4Water
- Space4Women
- World Space Forum
- Worldwide Space Agencies
- Capacity Building Activities



Scientific
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In Focus



DIRECTOR'S CORNER

The United Nations Office for Outer Space



ACCESS TO SPACE FOR ALL

Access to Space for All enables



HEALTH

Space applications provide innovative tools



ANNUAL REPORT 2020

UNOOSA's Annual Reports describe the



Access to Space for All Initiative-PHI

https://www.unoosa.org/oosa/en/ourwork/access2space4all/SatDev_Track.html

Our Work > Access to Space for All > Opportunities > Satellite Development Track



ACCESS TO SPACE FOR ALL SATELLITE DEVELOPMENT TRACK

Satellite Development Track News

- "Payload Hosting Initiative (PHI) Webinar - Deep dive into the opportunity" will be held on Monday 21 February 10:30CET and 16:30CET. Please register from [here](#).
- **Announcement of Awardees for 6th Round of KiboCUBE Side Event** was held on Wednesday 16 February. See the recording [here](#).
- Payload Hosting Initiative (PHI) 1st round is now open to applications! Watch the Announcement of Opportunity event [here](#) and start your application [here!](#)
- KiboCUBE Academy Season 2 has started from November. For more details click [here](#).

- ▶ Access to Space for All and the SDGs
- ▶ What is the Satellite Development Track?
- ▶ How does it work?
- ▶ **Hands-on Component**
- ▶ Education Component
- ▶ Tools Component

Our Current Partners



Partnership is a distinctive feature of the Initiative. The Access to Space for All Initiative is only possible thanks to partnerships with various public and private actors, who are encouraged to participate in various manner. The Initiative encourages access to space for all.

[read more](#)

Our Work

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- Programme on Space Applications
- UN-SPIDER
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Space Law

Benefits of Space

Space4Health

Access to Space

- For Member States
- Partnerships
- Opportunities

- Hypergravity/Microgravity
- Satellite Development
- Space Exploration Technology Awardees

- Knowledge
- Persons

- Space Forum
- Worldwide Space
- Capacity Building Activities

Hands-on Component

The Satellite Development Track capitalizes on the educational use of CubeSats for building capacity. It helps developing countries gradually acquiring the capability of designing, building, verifying, deploying, operating and decommissioning small satellites in orbit. It also inspires students and professionals to proceed further in Science, Technology, Engineering, and Mathematics (STEM) education. The opportunities are provided in this Track are provided by the Mohammed Bin Rashid Space Centre (MBRSC), the Japan Aerospace Exploration Agency (JAXA) and AVIO S.p.A.



The following are opportunities under the Satellite Development Track

- **PHI:** Payload hosting opportunity by the Mohammed Bin Rashid Space Centre (MBRSC) using the PHI platform, a cost-effective and modular satellite platform that can host multi-purpose payloads.
- **KiboCUBE:** CubeSat deployment opportunity by the Japan Aerospace Exploration Agency using the Japan Experiment Module (JEM) Small Satellite Orbital Deployer (J-SSOD) from the Kibo module on the International Space Station.
- **Vega-C:** CubeSat deployment opportunity using a Vega-C rocket in partnership with AVIO Spa.



Access to Space for All Initiative-PHI

https://www.unoosa.org/oosa/en/ourwork/access2space4all/PHI/PHI_Index.html

United Nations/Mohammed Bin Rashid Space Centre Cooperation Programme on Payload Hosting Initiative "PHI"



News

- "Payload Hosting Initiative (PHI) Webinar - Deep dive into the opportunity" will be held on Monday 21 February 10:30CET and 18:30CET. Please register from [here](#).
- PHI 1st round is open for applications - Check out in rounds and materials
- The 1st round Announcement of Opportunity Detail Webinar was held on 25 January 2022, click [here](#) to watch the event.
- UNOOSA and MBRS signed a Memorandum of Understanding for satellite payload hosting, read the [press release](#).

ROUNDS



The United Nations/Mohammed Bin Rashid Space Centre (MBRSC) Cooperation programme on Payload Hosting Initiative "PHI", is a joint programme of the United Nations Office for Outer Space Affairs (UNOOSA) in collaboration with MBRSC. This programme started in 2022. Through this opportunity, UNOOSA and MBRSC undertake to provide the opportunity of hosting a payload on the PHI mission and to select the hosted payloads. MBRSC will provide a 12U spacecraft platform, launch and ground station for the PHI mission, and the selected entities will provide tested payloads.

[read more](#)

AWARDEES



PHI is a brand-new opportunity provided by UNOOSA and MBRSC starting from 2022, everyone could be the first awardee in this opportunity!



PARTNER



This opportunity is in collaboration with the Mohammed Bin Rashid Space Centre (MBRSC), a research institute in the United Arab Emirates and home to the UAE National Space Programme. MBRSC builds and operates earth observation satellites, offering imaging and data analysis services to clients around the world. It has launched the DubaiSat-1, DubaiSat-2 and the KhalifaSat, which was developed 100% in the UAE by a team of highly qualified Emirati engineers. The Centre also launched the Emirates Mars Mission "Hope Probe", which became the first Arab interplanetary mission to reach the Martian orbit on 9 February 2021.

[read more](#)

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- Space4Health
- Access to Space for All
 - For Member States
 - Partnerships
 - Opportunities
 - Hypergravity/Microgravity Track
 - Satellite Development Track
 - Space Exploration Track
 - Awardees
 - Acknowledgement
- Space for Persons with Disabilities
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[PHI Rounds \(unoosa.org\)](#)

https://www.unoosa.org/oosa/en/ourwork/access2space4all/PHI/PHI_Rounds.html



- About Us
- Our Work
- Space4SDGs
- Information for...
- Events
- Space Object Register
- Documents
- COPUOS 2022

Our Work > Access to Space for All > Opportunities > Satellite Development Track

Payload Hosting Initiative Rounds

OPEN FOR APPLICATION (1st Round): deadline is 17 April 2022

Announcement of Opportunity event on 25 January 2022: watch the recordings from [here](#)

1ST ROUND DOCUMENTS

- [Announcement of Opportunity \(.pdf\)](#)
- [Application Form \(.word\)](#)
- [PHI Platform User Guide \(.pdf\)](#)
- [Due Diligence Form \(.word\)](#)

Through this Announcement of Opportunity, OOSA and MBRSC undertake to provide the opportunity of hosting a payload on PHI-1 mission and select the hosted payloads. MBRSC will provide 12U spacecraft platform, launch and ground station for PHI-1 mission. On the other hand, the selected entities will provide tested payloads to MBRSC ready for integration with the spacecraft and participate with MBRSC in Flight Model Assembly, Integration and Testing (FM AIT) activities. A **maximum volume** of 5U is available through this opportunity. Depending on the size and configuration of the proposals, more than one payload can be selected.

The **fully completed application documents of the letter of endorsement from the head of the entity (Document 1), Payload Hosting Application (Document 2) and due diligence document (Document 3)** must be submitted to OOSA by **17 April 2022** by email.

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- UN-SPIDER
- International Commi
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- Space4Health
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 - Opportunities
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Access to Space for All Initiative-PHI



- **Announcement of opportunity:** this documents describe the opportunity, eligibility criteria, selection criteria, schedule, responsibilities, milestones, documents to be submitted, etc.. This document is essential, **please read it carefully.**
- **Application form:** this documents is the template for a core documents that you will have to submit, which will describe your payload, the engineering process, schedule, requirements... **You will have to fill it in.**
- **PHI Platform User Guide:** this documents describes the host platform, **please read it carefully as your payload will have to be compliant to it.**
- **Due diligence template:** this documents is to be filled in by private companies applying.



Access to Space for All Initiative-PHI



[THE 17 GOALS | Sustainable Development \(un.org\)](https://un.org)



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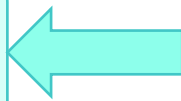


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 - ▶ Education Component
 - ▶ Tools Component



Our Current Partners



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[read more >](#)

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- Space4Health
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 - For Member States
 - Partnerships
 - Opportunities
 - Hypergravity/Microgravity Track
 - Satellite Development Track
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- **Education component under the satellite development track** has many webinars that give you useful information for your application.
- **Tools component under the satellite development track** has free tools that you can use to support your application



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Common Education Resources

Webinars

- Tips on the Implementation of the Space Debris Mitigation Guidelines and the Guidelines on the Long-Term Sustainability for Outer Space Activities Webinar
- World Space Week 2021: Access to Space for All - A Focus on the Women in the Initiative-
- Information Briefing - What is the Access to Space for All Initiative
- "How to Raise Awareness about Your Project"
- "Space Law and Regulations"
- "Experiences from Past Winners"
- "Artificial Intelligence and Access to Space for All"

Satellite Development Education Resources

Webinars

- PHI webinars
- KiboCUBE webinars
- Vega-C webinars
- PNST webinars

Fellowships

- United Nations/Japan Long-term Fellowship Programme 2022 Post-graduate study on Nano-Satellite Technologies (PNST)
Applications for the Fellowship Programme will be accepted until **10 January 2022**.

- ▶ Tools Component

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[read more ▶](#)

Webinars will help you in getting a better application

Opportunities

- Hypergravity/Microgravity Track
- Satellite Development Track
- Space Exploration Track

Awardees

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Capacity Building Activities

Thank you!

Questions?

unoosa-access-to-space@un.org

