





# OUR CURRENT PROJECT

MUSA

In 2019, Project MUSA, now Orbital Space Technologies proof of concept, won the sixt edition of the Mission Idea Contest organized by UNISEC.

The team was also rewarded with the International Academy of Astronautics (IAA) award, as the project with the greatest potential for international cooperation. MUSA The project seeks to study the fungus that causes Panama Disease, (which threatens banana plantations worldwide) and its antagonist in a microgravity environment with the intention to determine the gene expression changes that will allow us to develop a cure for the pathogen and save plantations all across the globe.

#### **DUAL CULTURE OF FUNGI**



Fusarium oxysporum f. (Panama's disease

Currently, this project is on its development phase, and the technology for the experimental platform, designed by the company, will be validated via a suborbital flight that is scheduled for June, 2022. Once the platform is validated, the experiment will be sent to the International Space Station.

#### ICE CUBES FACILITY PILLAR



## MORE RECENTLY













## **FUTURE STEPS**

- FUNDING STAGE
- MANUFACTURE OF MECHANICAL COMPONENTS
- SYSTEM INTEGRATION
- FLIGHT OBJECT ASSEMBLY AND TESTING
- LAUNCH TO ISS AND OPERATIONS
- SAMPLE ANALYSES AND RESULTS DOCUMENTATION





# IF YOU WANT TO HELP

#### GOGETFUNDING CAMPAIGN: MUSA PROJECT SUBORBITAL FLIGHT







# THANKS FOR YOUR ATTENTION

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