



Press Release

June 27, 2024  
ispace, inc.

## **ispace RESILIENCE Lunar Lander Successfully Achieves Testing Milestone in Preparation for Mission 2**

*All Testing Success Criteria & Qualifications Attained*

TOKYO – June 27, 2024 – ispace, inc. (ispace)([TOKYO: 9348](#)), a global lunar exploration company, announced today that the flight model of its HAKUTO-R Mission 2 RESILIENCE lunar lander has successfully completed thermal vacuum testing and remains on schedule for a Winter 2024 launch.



ispace engineers preparing the RESILIENCE lunar lander for testing at a JAXA facility in Tsukuba, Japan.

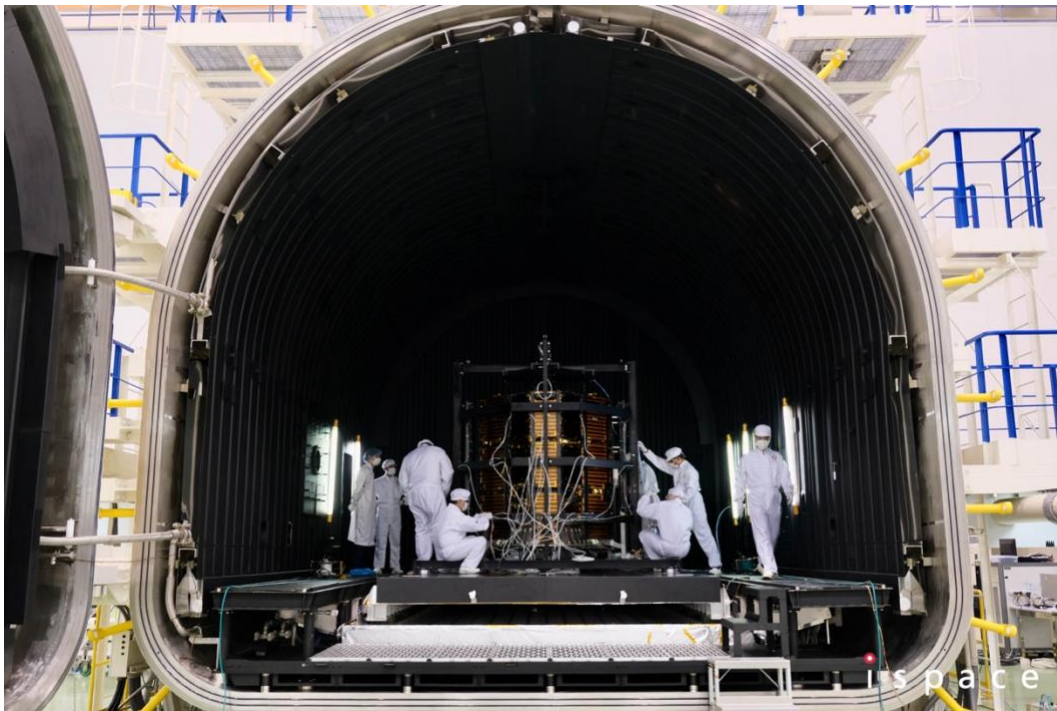
The testing was completed at the Japan Aerospace Exploration Agency (JAXA) Tsukuba Space Center in Tsukuba, Japan, where the agency operates a large testing facility. The flight model was assembled at the facility and all payloads or testing models were integrated into the lunar lander before testing began.

All test success criteria were met; ispace engineers are now reviewing the detailed data that RESILIENCE collected during the ten-day testing regime. The results will allow engineers to optimize the spacecraft thermally for spaceflight as well as improve flight operation procedures.

Thermal vacuum testing is conducted in a large chamber that allows the lunar lander to experience conditions similar to what it will face during its journey through outer space including extreme temperatures in a vacuum environment. Initial test results indicated successful operation of power systems, guidance, navigation and control (GNC) equipment, radio communications, and thermal control of the lander while simulating an actual spaceflight. During testing in the chamber, ispace operators utilized the lander's onboard radio to assess connections, send commands to, and receive telemetry from the lander, further simulating actual flight operations.

“Lessons learned” obtained during Mission 1 pre-launch testing processes as well as actual flight data were applied to the current testing operations to optimize efficiency and ensure more rigorous testing of the lander systems.

“I am grateful for the efforts of ispace's employees as the RESILIENCE lunar lander has achieved another significant testing milestone in preparation for Mission 2,” said Takeshi Hakamada, Founder and CEO of ispace. “Conducting multiple missions in relatively short intervals has improved the maturity of our team and the technology itself. We are dedicated to mission success and will continue to work towards realizing our vision of high-frequency, low-cost lunar transportation services.”



ispace engineers moving the RESILIENCE lunar lander into a testing chamber at a JAXA facility in Tsukuba, Japan.

“The successful completion of the thermal vacuum test for Mission 2 was a great achievement. I am proud of the efforts of the team involved in this operation by improving the process based on our experience from Mission 1 and the lander performed well, as we expected,” said Ryo Ujiie, CTO of ispace. “The RESILIENCE lander is quickly moving towards final preparations for launch and we are pleased with progress.”

Mission 2, ispace’s second lunar exploration mission, is expected to launch on a SpaceX Falcon 9 rocket from Cape Canaveral, Fla. RESILIENCE will deliver commercial and scientific equipment to the lunar surface and is expected to contribute to the NASA-led Artemis program. In addition to its commercial payloads, the mission will include a micro rover that will deploy from the lunar lander and conduct surface exploration including the collection of lunar regolith.

In December 2020, ispace EUROPE was selected by NASA to acquire regolith from the lunar surface to be purchased by the space agency. In furtherance of this effort, a shovel developed by Epiroc AB, a leading productivity and sustainability partner for the mining and infrastructure industries, and a corporate partner participating in the HAKUTO-R program, has been delivered and mounted on the micro rover. Once on the lunar surface, ispace operators plan to use the shovel to collect a sample of lunar regolith and photograph the collection with the camera mounted on the rover.

ispace is leveraging its global presence through its three business units in Japan, the U.S., and Luxembourg, for the simultaneous development of Mission 2 and Mission 3. Mission 2 is planned for 2024, led by the ispace Japan entity, and Mission 3 in 2026, led by the ispace U.S. entity. Mission 6, which will utilize the Series 3 lander, being designed in Japan, is scheduled to be launched by 2027.

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**About ispace, inc.** (<https://ispace-inc.com>)

ispace, a global lunar exploration company with the vision, “Expand our planet. Expand our future.”, specializes in designing and building lunar landers and rovers. ispace aims to extend the sphere of human life into space and create a sustainable world by providing high-frequency, low-cost transportation services to the Moon. The company has business entities in Japan, Luxembourg, and the United States with approximately 300 employees worldwide. For more information, visit: [www.ispace-inc.com](http://www.ispace-inc.com) and follow us on X: [@ispace\\_inc](https://twitter.com/ispace_inc).