

Japanese company aims to put first private lander on Moon, with UAE rover on board

November 29 2022



A Falcon 9 rocket is scheduled to blast off at 3:39 am (0839 GMT) from Cape Canaveral, Florida, with a backup date on Thursday.

SpaceX is set Wednesday to launch the first private—and Japanese—lander to the Moon.

A Falcon 9 rocket is scheduled to blast off at 3:39 am (0839 GMT) from Cape Canaveral, Florida, with a backup date on Thursday.

Until now, only the United States, Russia and China have managed to put a robot on the [lunar surface](#).

The mission, by Japanese company ispace, is the first of a program called Hakuto-R.

The lander would touch down around April 2023 on the visible side of the Moon, in the Atlas crater, according to a company statement.

Measuring just over 2 by 2.5 meters, it carries on board a 10-kilogram rover named Rashid, built by the United Arab Emirates. The oil-rich country is a newcomer to the [space race](#) but counts recent successes including a Mars probe in 2020. If it succeeds, Rashid will be the Arab world's first Moon mission.

"We have achieved so much in the six short years since we first began conceptualizing this project in 2016," said ispace CEO Takeshi Hakamada.

Hakuto was one of five finalists in the international Google Lunar XPrize competition, a challenge to land a rover on the Moon before a 2018 deadline, which ended without a winner. But some of the projects are still ongoing.

Another finalist, from the Israeli organization SpaceIL, failed in April 2019 to become the first privately-funded mission to achieve the feat, after crashing into the surface while attempting to land.

ispace, which has just 200 employees, says it "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."

Future missions are set to contribute to NASA's Artemis program. Artemis-1, an uncrewed test flight to the Moon, is currently underway.

The US space agency wants to develop the lunar economy in the coming years by building a [space station](#) in orbit around the Moon and a base on the surface.

It has awarded contracts to several companies to develop landers to transport scientific experiments to the surface.

Among them, the American companies Astrobotic and Intuitive Machines should take off in 2023, and could arrive at their destination before ispace by taking a more direct route, according to reports.

© 2022 AFP

Citation: Japanese company aims to put first private lander on Moon, with UAE rover on board (2022, November 29) retrieved 13 March 2024 from <https://phys.org/news/2022-11-japanese-company-aims-private-lander.html>

<p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p>
--