

World's first private lunar lander

An Israeli nonprofit group is aiming to lead the first privately funded mission to land a probe on the moon, following in the footprints of the former Soviet Union, the U.S. and China

Lunar lander **Beresheet** – Hebrew for “In the beginning” – will launch from Cape Canaveral aboard **SpaceX Falcon 9** rocket for 2.5-month mission

Craft will detach at 60,000km and enter moon's orbit before controlled landing

Landing site

Mare Serenitatis

BERESHEET: Funded and built by non-profit group **Spacell** and **Israel Aerospace Industries**, with tech support from **Israel Space Agency**

SPECIFICATIONS

Launch mass: **585kg** – inc. 435kg of fuel
Height: **1.5m**
Diameter: **2m**

Landing gears

Main Engine

Thrusters

Solar panels

Fuel tanks

Cameras

Helium tank

Craft carries magnetometer to measure moon's magnetic field and NASA-provided laser retroreflector to aid ground tracking

Digital time capsule of Israeli cultural and historic artifacts to be left on moon

