

JOINT RELEASE

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Contact: Dan Dent
ddent@draper.com
617-258-2464 / 617-429-2883

Draper Unveils Team for NASA's Next Moonshot

Draper Assembles Top-Notch Team for NASA CLPS Program Proposal

CAMBRIDGE, MA—Draper, a company with a heritage in space exploration dating to the Apollo moon landings, announced today its team for NASA's Commercial Lunar Payload Services (CLPS) contract. Under the proposal the team will support NASA in the delivery of small rovers and instruments to meet lunar science and exploration needs, advance development of lunar landers for human missions and conduct more research on the moon's surface ahead of a human return.

Draper, as prime contractor, will lead a team that brings extensive and highly relevant experience in space, with partners which include General Atomics Electromagnetic Systems, ispace and Spaceflight Industries.

Seamus Tuohy, principal director of space systems at Draper, remarked, "Draper is proud of its long-standing relationship with NASA, and is excited to further strengthen that partnership with a team that will provide commercial lunar launch transportation and lunar landers and re-establish the moon as a destination for future human spaceflight. As the nation prepares to celebrate the 50th anniversary of the first Apollo lunar landing, Draper is excited to partner once again with NASA to go to the moon, this time joined by a dream team of space industry leaders."

NASA announced its CLPS program in December 2017 and invited commercial partners to form teams to bid on the project. At the time the space agency said it is returning to the moon and to destinations farther into the solar system with commercial and international partners as part of an overall agency Exploration Campaign in support of Space Policy Directive 1.

In accordance with the terms of the proposal, Draper will provide payload operations and the guidance, navigation and control systems for the lunar lander, as well as overall management and coordination of the team; [General Atomics Electromagnetic Systems](#) is responsible for carrying out the lunar lander manufacturing, assembly, integration and testing in the United States; [ispace](#) will act as the design agent for the lunar lander and mission operations, as well as provide high-frequency rideshare opportunities; and [Spaceflight Industries Inc.](#) is responsible for launch services including integration, mission management, launch and range documentation and pre- and post-operations.

"We have decades of experience manufacturing complex systems and components supporting a variety of critical programs and multi-year, multi-customer, and multi-contractor teaming

environments,” stated Scott Forney, president of General Atomics Electromagnetic Systems. “As a proud member of this highly qualified international team, we look forward to applying our manufacturing and satellite design expertise to deliver a CLPS spacecraft supporting NASA’s next mission to the moon.”

“NASA’s CLPS is a very important program that paves the way for establishing a commercial lunar transportation market. We are very much looking forward to supporting NASA in that effort,” said ispace’s founder and chief executive, Takeshi Hakamada, who was inspired to start ispace while studying Aerospace Engineering at Georgia Tech. “We are honored that Draper selected our lunar lander technology as the most capable design and to join this truly outstanding team led by Draper, which brings together the talent and capabilities necessary to support NASA’s return to the Moon.”

Curt Blake, president of Spaceflight, said, “We’re focused on getting our customers’ spacecraft into orbit in the most expeditious, cost-effective manner possible. We are honored and looking forward to working on this NASA moonshot with the team.”

In support of the national interest, NASA has mandated that the prime contractor provide a CLPS that uses domestic end products for all space transportation vehicles required for performance of the contract. Draper and the team prepared the proposal with that goal in mind and to satisfy the requirements of NASA’s [Domestic Source Certification](#).

Draper <https://www.draper.com/>

At Draper, we believe exciting things happen when new capabilities are imagined and created. Whether formulating a concept and developing each component to achieve a field-ready prototype or combining existing technologies in new ways, Draper engineers apply multidisciplinary approaches that deliver new capabilities to customers. As a not-for-profit research and development company, Draper focuses on the design, development and deployment of advanced technological solutions for the world’s most challenging and important problems. We provide engineering solutions directly to government, industry and academia; work on teams as prime contractor or subcontractor; and participate as a collaborator in consortia. We provide unbiased assessments of technology or systems designed or recommended by other organizations—custom designed, as well as commercial-off-the-shelf.

General Atomics Electromagnetic Systems <http://www.ga.com/ems>

General Atomics Electromagnetic Systems (GA-EMS) Group is a global leader in the research, design, and manufacture of first-of-a-kind electromagnetic and electric power generation systems. GA-EMS’ history of research, development, and technology innovation has led to an expanding portfolio of specialized products and integrated system solutions supporting aviation, space systems and satellites, missile defense, power and energy, and processing and monitoring applications for critical defense, industrial, and commercial customers worldwide.

ispace, inc. <https://ispace-inc.com/>

ispace is a lunar exploration company with over 85 staff from 13 countries. The company has 3 global offices in Japan, Europe and the NASA Ames Research Park in the US, and signed agreements with JAXA and The Government of Luxembourg. ispace raised nearly \$100 million USD in its Series A funding—more than almost any other space company in history. The funding is being used for its first two lunar missions in 2020 and 2021, which will both launch on SpaceX’s Falcon 9 rocket. The missions are intended to lay the groundwork for high-frequency commercial missions. ispace’s engineers have collective experience working for 5 international space agencies, including NASA.

Spaceflight Industries <http://spaceflight.com/>

Spaceflight is revolutionizing the business of spaceflight by delivering a new model for accessing space. A comprehensive launch services and mission management provider, the company provides a straightforward and cost-effective suite of products and services including state-of-the-art satellite infrastructure and rideshare launch offerings that enable commercial and government entities to achieve their mission goals on time and on budget. A service offering of Spaceflight Industries in Seattle Washington, Spaceflight provides its services through a global network of partners, ground stations and launch vehicle providers.

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