

LunaRide Transportation Services



MILO members will have the opportunity to include their science and technology missions to the lunar surface or cislunar space through Lockheed Martin’s Lunar Transportation Services. Members partner with MILO scientists and engineers to design, build, test, and operate payloads that will expand our knowledge of Earth’s closest neighbor and prove out the technologies of tomorrow. Membership provides science and payload development guidance along with teaming opportunities to send your project to the Moon.

Asteroid Mission Opportunities

[Apophis Pathfinder]

MILO members can join a dedicated mission focused on the first flyby of the potentially hazardous asteroid (99942) Apophis. In 2029, Apophis will pass within Earth’s geosynchronous orbit. The Apophis Pathfinder mission will conduct a flyby investigation of the asteroid in advance of its 2029 Earth flyby using a pair of small spacecraft to include instruments designed and built by MILO members.

[NEOShare]

The NEOShare mission will launch a cluster of six small satellites, each performing a close flyby of different Near-Earth Objects (NEOs). Each small satellite would be equipped with cameras, spectrometers, and potentially other high-heritage instrumentation provided by MILO members. The mission will characterize at least eight new NEOs as some satellites will flyby multiple objects.

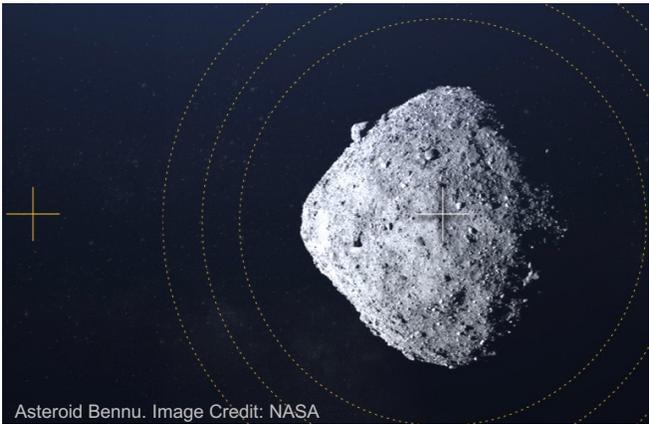
MILO Membership

Membership starts with a simple MOU. Membership provides access to the MILO member network, MILO Mission Academy, space science missions, and the opportunity to collaborate with other members on projects of mutual interest.

Share your space science ideas with the Institute



Draft and sign a Memorandum of Understanding (MOU)



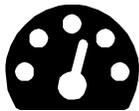
Inspire



MILO Space Academy

The MILO Space Academy provides unique, hands-on learning and insight into the dynamic world of the space industry for MILO members. Students can expect to learn mission procedures and protocols from industry professionals as they collaborate with fellow team members to complete mission-related team-projects. Each 12-week academy is linked to MILO missions and helps science and engineering students gain and apply relevant workforce skills and practices that lead to proficiencies that are valued by the space-based aerospace industry.

Build



Payload Innovation Accelerator

The Accelerator matures payload technology and supports translation and entrepreneurship using an Innovation Challenge model. Teams build functioning prototypes of their designs and demonstrate performance prior to flight build and integration. The Accelerator prepares teams for participation in MILO missions. Some teams will transition to commercial applications that provide an economic impact through new venture formation and acquisition opportunities.

Explore



Mission Project Office

Ride share and consortium-based missions enable more scientists, engineers, and students to participate in deep space small sat robotic missions with high science returns. The MILO Project office, modeled after NASA Project Offices, provides its members with subject matter experts (SME) who support payload development, testing and integration, mission operations, and science return.

Pricing



Space Academy

Concept to Preliminary Design Review
Starting at \$60,000*



Payload Accelerator

Preliminary Design Review to Prototype
Starting at \$200,000*



Project Office

Prototype to Flight Ready
Cost included in the payload transportation**

*Programs can be customized to match your budget
** For Lunar Transportation and Asteroid Missions, contact MILO.