



As the quantity of commercial launches and commercial satellites in orbit continue to increase exponentially, industry players pursue new opportunities and grapple with new challenges. While countless space industry names have come and gone over the decades, The Aerospace Corporation has maintained consistent technical and program excellence for more than 60 years. Today, Aerospace is industry's trusted partner to accelerate innovation, mature unique technologies, and achieve corporate objectives for growth and advancement.

Solving the Hardest Technical Challenges in Space

Aerospace brings proven systems engineering and integration (SE&I) capabilities and space insights directly to the private sector. We advance commercial space innovation and capabilities by helping reduce risk and uncertainty across program and innovation lifecycles. Our services foster confidence in commercial capabilities among commercial buyers, investors, venture capital firms, and the U.S. government. Aerospace service offerings to commercial space companies include:

Launch and Space Readiness Support

- Launch safety probabilistic analysis
- Anomaly identification and resolution for errant launch and satellites
- On-orbit space platform characterization

Systems of Systems Engineering

- Advancing architectures for cislunar ecosystems
- Independent space software and hardware development verification and evaluation
- Assuring effective and safe operations of trusted autonomous systems

Systems of Systems Development & Acquisition Services

- Assess technical risk and operational viability for venture capital confidence
- Independent requirements assessment
- Trade studies and market readiness assessment of core technologies

Technology Applications

- Validating advanced technology for operational applications
- Electric propulsion and Microelectromechanical Systems Digital Thruster (MDT) testing
- Emergency evaluations of systems and hardware failure

The Aerospace Corporation

The Aerospace Corporation is a leading architect for the nation's space programs, advancing capabilities that outpace threats to the country's national security while nurturing innovative technologies to further a new era of space commercialization and exploration. Aerospace's national workforce of more than 4,600 employees provides objective technical expertise and thought leadership to solve the hardest problems in space and assure mission success for space systems and space vehicles. For more information, visit www.aerospace.org.

Direct Commercial Programs Office
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Commercial Space Activities at Aerospace



Building confidence in commercial cislunar systems, Aerospace performs independent technical reviews and activities to mature unproven capabilities via in-space physical and digital testbeds and proving grounds.



Aerospace guides collaboration to advance in-space servicing, assembly, and manufacturing (ISAM) technologies to extend satellite lifecycles, enable refueling and debris removal, and sustain space operations. Image courtesy of NASA.