



YOUR TRUSTED PARTNER FOR SOLVING THE MOST COMPLEX CIVIL, COMMERCIAL, AND INTERNATIONAL SPACE CHALLENGES

The Aerospace Corporation's Civil Systems Group (CSG) advances U.S. national priorities for space security and economic prosperity by serving civilian government agencies, international allies, and the commercial space industry. With decades of specialized experience, sophisticated models, comprehensive technical data, and access to unique laboratories, we solve complex problems across the space enterprise lifecycle. Our responsive processes—coupled with independent technical analyses—streamline development and operations while reducing risk for government and industry customers.

Solving Complex Challenges throughout Mission Lifecycles

The space landscape is rapidly evolving. U.S. national priorities now emphasize space superiority through enhanced security, robust economic growth, and expanded human exploration with an emphasis on employing commercial capabilities. Achieving these goals requires visionary architectural approaches, enabling technologies, and rapid development and integration that leverages commercial capabilities.

Aerospace delivers agile, cost-effective solutions designed to maximize value through our focus on innovation, expert guidance, and collaborative partnerships:

Policy, Acquisition, and Program Guidance

Strategic insights on technical policies and acquisition strategies, independent cost and schedule assessments and validations that inform budget planning, and decision support aligned with strategic objectives.

Systems Engineering and Technical Advisory

Integrated systems of systems analysis, requirements definition, trade studies, and independent design reviews that optimize mission architectures and system designs while managing technical and programmatic risk throughout the mission lifecycle—from concept through post-launch operations—prioritizing industry solutions while ensuring overall mission readiness.

Civil Systems Group

Contact us at CSG@aero.org.

Aerospace Corporate Locations:

- › Chantilly, VA, Headquarters
- › Huntsville, AL
- › El Segundo, CA
- › Colorado Springs, CO
- › Albuquerque, NM
- › Houston, TX
- › Crystal City, VA

Aerospace CSG Locations:

- › NASA HQ and NASA Centers (Ames, Armstrong, Glenn, Goddard, Johnson, Kennedy, Langley, Marshall)
- › NASA Jet Propulsion Laboratory (Pasadena, CA)
- › National NNSA locations
- › NOAA Space Operations Facility (Suitland, MD)
- › NSF/UCAR National Center for Atmospheric Research (Boulder, CO)
- › USGS (Sioux Falls, SD)

Specialized Areas of Expertise

- Space Situational Awareness and Traffic Management
- Space and Ground System Cyber Assurance
- Artificial Intelligence, Machine Learning, and Autonomy
- Laboratories, Testbeds, and Proving Grounds (including Digital Engineering and Digital Twins)
- Core capabilities and infrastructure for LEO and Cislunar Ecosystems (including ISAM, logistics, PNT, and communications)
- Human Spaceflight and Safety
- Climate and Environmental Security
- Nuclear Enterprise Integration, Non-proliferation, and Test Detection

Technical Innovation

Emerging technology maturation and transfer, continuous process improvements that reduce costs and speed up deployment, and laboratory and space-based prototyping that validates innovations for government and industry.

What Sets Aerospace Apart

- **Deep Expertise and Experience:** Over 60 years providing unmatched, end-to-end support to diverse missions with dedicated technical experts, unique operational data, field-proven models, and specialized laboratories.
- **Trusted Partner:** As a non-profit organization that avoids conflicts of interest with the commercial sector, we provide objective analysis and solutions that prioritize the customer's best interests.
- **Proven Results:** A track record of enhanced agility, cost and schedule efficiencies, high customer satisfaction, and enterprise-wide impact through independent insights that ensure reliable mission execution.

Trust and Objectivity without Conflict of Interest

Aerospace is a trusted partner in achieving the nation's goals for a vibrant, commercial-led economy and enabling new capabilities for American leadership in space. We do not manufacture and do not compete with industry for government contracts. We maintain full objectivity as the space industry's trusted partner, and we rigorously protect the proprietary information and IP of each of our customers and partners.



Aerospace provides essential SE&I support within NASA's Moon to Mars initiative and to specific components of Artemis exploration missions, from holistic architecture reviews and programmatic assessments to validation of industry partners' launch and avionics systems—helping the U.S. lead the world in space exploration. Image courtesy of NASA.

Learn more at [Aerospace.org/Explore](https://www.aerospace.org/Explore).



The emerging cislunar ecosystem will require a robust, industry-driven infrastructure to meet national priorities for enabling commercial competition and ensuring American space superiority. To build confidence in commercial systems, Aerospace performs independent technical reviews and activities and convenes industry stakeholders to help mature unproven capabilities via coalitions, testbeds and proving grounds, and other collaborative means. Image courtesy of NASA.

Learn more at [Aerospace.org/Industry](https://www.aerospace.org/Industry).

The Aerospace Corporation

The Aerospace Corporation is the nation's trusted partner solving the hardest problems in space. We leverage unparalleled technical depth to meet critical mission needs and design foundational architectures that secure U.S. leadership in space and keep the nation safe. Our national workforce of more than 4,800 employees provides objective technical expertise and data driven insights that drive mission success across space systems and space vehicles. For more information, visit www.aerospace.org.