

# AN ENTERPRISE PERSPECTIVE: AEROSPACE CORPORATE OVERVIEW

The space enterprise has been transformed by rapid change and growth. New vehicles for national security space, a more rapid launch cadence, proliferated satellite constellations, the pursuit of interplanetary exploration, and thriving commercial ventures are changing the nature of the space industry. The space race is now a far more complex endeavor, with adversaries continually challenging the current paradigm. The Aerospace Corporation (Aerospace) is a leading architect for U.S. space programs, shaping efforts to outpace threats to our national security while cultivating the technologies needed to further this new era of space commercialization and exploration.

## The Benefit of a Trusted Advisor

Aerospace works across the space enterprise in service of the public interest. In addition to supporting the Department of Defense and the Intelligence Community, our customers include NASA, NOAA, numerous federal agencies, and commercial space — all of whom benefit from our deep technical knowledge. In this integrative role, Aerospace can improve the flow of information, mature programs more quickly, and enable the rapid delivery of new capabilities to space.

We only pursue business related to the space mission and complementary fields, operating as the nation's trusted partner to solve the toughest challenges and develop reliable and innovative technologies. Some of our recent achievements include:

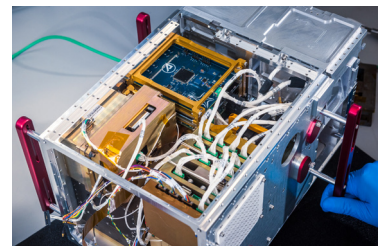
- Hit a major milestone by delivering GPS III-5 successfully to orbit, marking the first time a previously flown rocket booster was used for a national security space launch
- Supported a cross-agency multilayered architecture selection for Space Command and Control, leveraging tools enabling automated modeling and simulation of threats
- Launched the Commercial Space Futures office, enabling government customers to advance commercial solutions to accelerate U.S. space capabilities
- Demonstrated the Open Architecture Data Repository prototype, designed to unify and standardize on-orbit asset data for space traffic coordination and space domain awareness
- Produced nonpartisan research and strategic analysis through the Center for Space Policy and Strategy to connect space enterprise thought leaders to shape and inform space policy
- Developed, prototyped, and launched the Slingshot CubeSat Platform, demonstrating modular and autonomous technologies for faster and more resilient satellite development
- Delivered the DiskSat prototype, a small satellite design for constellations providing the standardized launch interface and low launch costs with large aperture and high power
- Pioneered the APPLE rechargeable battery concept, a power tile that will attach directly to a solar sail to enable deep space research
- Advanced integrated cybersecurity for on-orbit spacecraft using onboard machine learning and signatures to detect and respond to anomalies, increasing options for threat mitigation
- Established Aerospace UK to provide technical support to the UK as it develops new space policies and initiatives
- Supported a wide swath of NASA missions, including Commercial Crew, Return to Moon efforts, the Next STEP habitat, and EVA program support



*DiskSat is a plate-shaped satellite, 1 m in diameter, 2.5 cm thick.*



*GPS III-5 launched aboard a SpaceX Falcon 9 from Cape Canaveral SFS. Credit: SpaceX*



*The Slingshot platform SatCat5 ethernet switch architecture provides high throughput and low-power consumption.*



*NASA's Space Launch System (SLS) rocket. Credit: NASA*

## Our Strategic Imperatives



### Shaping the Future | Partnering for Success

Our focus is on enterprise mission success, delivering integrated solutions and interoperability to meet the needs of a broader space ecosystem. We apply our expertise across mission lifecycles, ensure end-to-end integration of space systems, and align our efforts across national security, civil, and commercial space.



The new Colorado Springs facility digital engineering environment.

### Growth in Our Value | Increasing Value to the Enterprise

Our customers expect more than just problem solving; they look to us for guidance on the best course of action for their high-impact decisions. As Aerospace continues to grow with an increasingly diverse set of partners, we are making strategic technological investments to stay on the leading edge of space.

## Locations

Our company maintains world-class laboratory facilities with a structure that enables maximum customer responsiveness.

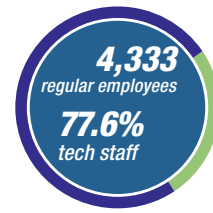
- › El Segundo, CA (Corp. HQ)
- › Colorado Springs, CO
- › Chantilly, VA
- › Los Angeles AFB, CA
- › Pasadena, CA
- › Vandenberg SFB, CA
- › Buckley SFB, CO
- › Denver, CO
- › Peterson SFB, CO
- › Schriever SFB, CO
- › Cape Canaveral SFS, FL
- › Kennedy Space Center, FL
- › Goddard SFC, MD
- › Greenbelt, MD
- › Silver Spring, MD
- › Suitland, MD
- › Offutt AFB, NE
- › Albuquerque, NM
- › Kirtland AFB, NM
- › Wright-Patterson AFB, OH
- › Houston, TX
- › Johnson Space Center, TX
- › Hill AFB, UT
- › Arlington, VA
- › Herndon, VA

## The Role of Federally Funded Research and Development Centers

FFRDCs were created to provide technical expertise for science and technology efforts critical to national leadership. As trusted advisors to government, FFRDCs provide objective, unbiased analysis and recommendations with no conflicts of interest. FFRDCs do not compete with industry and do not manufacture, operating as strategic partners with sponsoring government agencies to ensure the highest levels of objectivity and technical excellence. Aerospace works across government, civil, and commercial space to provide disciplinary continuity, unique capabilities, and foundational knowledge to shape this era of space.

## About The Aerospace Corporation

The Aerospace Corporation is a national nonprofit corporation that operates a federally funded research and development center and has more than 4,500 employees. With major locations in El Segundo, California; Albuquerque, New Mexico; Colorado Springs, Colorado; and the Washington, D.C. region, Aerospace addresses complex problems across the space enterprise and other areas of national and international significance through agility, innovation, and objective technical leadership. For more information, visit [www.aerospace.org](http://www.aerospace.org).



Over  
800 Ph.D.s

### Innovation | Meeting New Challenges

Our unrivaled technical expertise is the foundation of our success. We recruit top talent in key technical fields to mature space-enabling capabilities. Our digital-first approach provides opportunities to integrate across the space enterprise, enabling multi-domain collaboration, scalable, agile architectures, and informed acquisition planning.



### Velocity | Responsive and Effective Execution

We are pursuing bold ideas for the Future of Work — modernizing our operational architecture, facilities, and technology to empower our people to collaborate and create innovative solutions for our customers. Our sustained diversity, equity, and inclusion efforts enable us to continue to attract, retain, and develop the best technical talent.