



# THE AEROSPACE CORPORATION: ALBUQUERQUE

As the government's preeminent space innovation partner, The Aerospace Corporation brings nearly 60 years of expertise to the challenge of advancing the nation's missions in space while also supporting the nation's deterrence mission. Aerospace established a presence in New Mexico in the 1980s, initially supporting the Space Technology Center (now the Air Force Research Laboratory) with a staff of 20 engineers. Today, Aerospace's presence in New Mexico has generated an economic impact of \$21 million and grown to nearly 100 employees—including scientists and engineers who are working to develop innovative space technologies, support our nuclear deterrence posture, and assure the nation's nuclear stockpile.

## Nuclear Security

Aerospace's work in Albuquerque is key to supporting the Department of Defense's (DOD's) deterrence mission with the goal of protecting our national security from adversarial threats and maintaining the nuclear deterrence that Aerospace has supported for the past 60 years. Aerospace's technical expertise includes threat deterrence, satellites, lasers, launch vehicles, cruise missiles, reentry vehicles, mission assurance, systems engineering, and other specialties, including the use of cyberspace tools to ensure protection against all adversaries. Since 2008, Aerospace has provided core mission assurance to the Air Force Nuclear Weapons Center (AFNWC) and currently provides full lifecycle mission assurance to Nuclear Command, Control, and Communications (NC3) systems, intercontinental ballistic missiles (ICBMs), and nuclear technology assessments and roadmaps. Aerospace support of the National Nuclear Security Administration (NNSA) defense programs provide independent reviews and assessments of life-extension programs, warhead integration for the ground-based strategic deterrent, nuclear weapons stockpile surveillance, and other initiatives. Additionally, Aerospace is supporting the integration of the Space-Based Nuclear Detonation Detection (SNDD) program for Defense Nuclear Nonproliferation, integrating the NNSA components with the DOD Nuclear Detection System.

## Space Innovation

Aerospace engineers in Albuquerque provide comprehensive capabilities for research and development and rapid response access to space, including mission planning, acquisition and development, satellite and launch vehicle integration, ground systems, and flight operations. This includes support for the Space and Missile Systems Center's Innovation and Prototyping Directorate, Space Rapid Capabilities Office, the Launch Enterprise's Small Launch and Targets Division, Air Force Research Laboratory's Space Vehicles Directorate, and DOD's Space Test Program, which includes NASA manned flight missions for Johnson Space Center.



In Albuquerque, most Aerospace employees work at two main locations, Aerospace offices at City Place (as shown above) and Kirtland Air Force Base.

## Albuquerque Co-Locations with Customers

### Kirtland AFB

- › Space and Missile Systems Center Innovation and Prototyping Directorate
- › Air Force Nuclear Weapons Center
- › Space Rapid Capabilities Office
- › Air Force Research Laboratory

### NNSA Facilities

- › Los Alamos National Laboratory
- › NNSA Albuquerque Complex
- › Sandia National Laboratory

### Aerospace City Place Offices

- › NNSA Headquarters support
- › Other Govt Customers
- › Missile Defense Agency
- › Aerospace's National Engineering and Technology Group Initiative



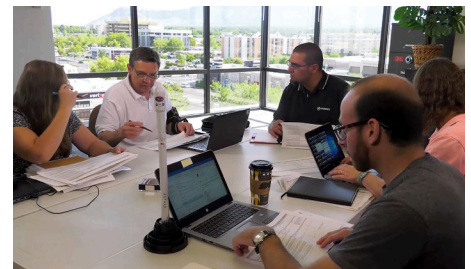
Photo credit: USAF

### **Commitment to Albuquerque**

Aerospace has been a longstanding member of the Albuquerque community since the early 1980s and remains committed through its partnerships with the NNSA, DOD Small Satellite Center of Excellence, AFNWC, the state of New Mexico, and the city of Albuquerque, assuring that space and nuclear programs continue to be key protectors of U.S. national security.

### **Enriching Our Community**

Aerospace employees are committed to sharing their time and making a difference in the community. From onsite workshops for local STEM educators to university career fairs, Aerospace is deeply rooted in New Mexico. Over 25 percent of Aerospace's Albuquerque employees have post-secondary degrees earned in-state, and the company actively recruits both recent graduates of New Mexico universities and "boomerangs" – New Mexicans who have gone out of state and are looking for engaging opportunities to return. Since 2013, the Albuquerque office has predominantly hired interns from The University of New Mexico and New Mexico Institute of Mining and Technology.



### **The Aerospace Corporation**

The Aerospace Corporation is a national non-profit corporation that operates a federally funded research and development center (FFRDC) and has approximately 4,000 employees. The Aerospace FFRDC is aligned to support the most critical programs of the Department of Defense and the nation, and to serve as its customers' innovation partner across the space enterprise. Consistent with the competencies outlined in our sponsoring agreement, Aerospace provides strategic value through independent, intellectually rigorous, relevant, and timely products and services. With three major locations in El Segundo, Calif.; Colorado Springs, Colo.; and Washington, D.C., Aerospace addresses complex problems across the space enterprise and other areas of national significance.