

# Mission Operations



For more information about CACI's space capabilities, visit [caci.com/space](https://caci.com/space)

CACI delivers the technology, expertise, and hands-on support needed to launch, operate, exploit, and sustain critical systems in the space domain. Our solutions strengthen space situational awareness and enhance decision-making by supplying mission leaders with accurate, timely data presented in ways that support optimal response.

We lead large-scale Agile development efforts that accelerate tool and application prototyping and drive platform modernization. CACI's deep learning algorithms enhance data fusion, visualization, and analysis tools to deliver real-time situational awareness and early-warning decision support, ensuring the space enterprise can detect, assess, and respond to emerging threats.

With more than four decades of mission assurance launch experience, CACI provides critical day-of-launch support for National Security Space Launch (NSSL) missions. Our capabilities include launch control, test engineering, operations, software development, independent verification and validation (IV&V), and launch countdown activities. Our teams are deeply experienced in telemetry and antenna operations, communications, range support, and security, and hold the clearance levels needed to support commercial, civil, and NSSL missions.

## Resilient ground enterprise solutions

CACI has decades of experience developing, operating, and sustaining space mission systems and ground infrastructures. Our Agile development model features highly automated testing, enabling rapid adaptation to evolving requirements. As customers seek continuous mission operations, even under degraded conditions, we deliver cybersecure, open-system mission frameworks and resilient, cloud-based ground solutions.

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# Space battle management command and control (C2) and space domain awareness

From infrastructure to 24/7 operational tools, CACI brings the expertise and defensive cyber capabilities needed to sustain mission operations even under sustained attack. Our real-time situational awareness, data analysis, and decision support tools give commanders the ability to protect and maintain the space enterprise in contested environments.

## Cutting-edge AI/ML for advanced analytics

Mission operators and analysts must quickly identify, characterize, and respond to hostile actions targeting space systems. With more than 20 years of experience in data fusion, visualization, and analytic tool development, CACI rapidly identifies, catalogs, and analyzes activity in the space environment. To manage growing data volumes and increasing mission complexity, CACI integrates advanced artificial intelligence (AI) and machine learning (ML) across our tools. Our cloud migration strategy expands access, improves performance, and ensures operational resilience as threats evolve.

## Features

- Experienced, cleared personnel able to meet mission security requirements
- Cyber defense and resiliency measures that ensure continuity of mission-critical systems
- Integrated logistics support for cost-effective, high-availability operations
- Sophisticated analytics development for cyber operations
- Advanced modeling and simulation capabilities
- Rapidly deployable teams positioned near major U.S. spaceports
- Surge capacity to augment existing operations teams

## Key benefits



Agile development and rapid prototyping accelerate delivery



Deep learning algorithms speed data processing, fusion, and analysis



Advanced analytics and visualization reveal patterns and anomalies



Cloud-based solutions reduce costs, increase accessibility, and enhance performance



Enhanced mission assurance for launch vehicle and satellite operations



Scalable augmentation for range and mission operations avoids overhead costs of permanent staffing

