



Leidos Capabilities Supporting the Space Industry

LEIDOS BY THE NUMBERS

60+ YEARS

OF SUPPORT PROVIDED
TO NASA AND THE SPACE
INDUSTRY

#2

GOVERNMENT IT AND
SYSTEMS INTEGRATION
WASHINGTON TECHNOLOGY

56%

EMPLOYEES WITH STEM
DEGREES

20%

EMPLOYEES WHO ARE
MILITARY VETERANS

For more than 60 years, Leidos has supported deep space exploration and human spaceflight with technical expertise in IT, engineering, and science. Throughout our history, we have developed a strong understanding of the scientific environment and R&D capabilities needed to support public and private sector space exploration and human spaceflight missions. Building on this critical foundation, Leidos offers agile, affordable, and mission-oriented solutions delivered by experienced staff with track records of success at NASA centers, and the engineering and scientific community.

As a company, Leidos brings enterprise-wide capabilities to the space industry. We continually invest in the people, processes, and innovative technologies serving this important customer segment and have developed and fostered formal programs including Internal Research and Development (IRAD); Employee Resource Groups devoted to technical skills and training; Communities of Practice; STEM-centric employee, intern, and community-based initiatives that contribute and shape how we design and deliver customer solutions.

AUTOMATED OBJECT DETECTION FROM IMAGERY

Characterization and geo-location of objects in imagery with 24x7 near real-time alerting and published results to Structured Observation Management (SOM) data stores/workflows

CLOUD-BASED IMAGERY EXPLOITATION

Data ingest, optimization, access, tiling, and high-performance Session Initiation Protocol (SIPS) compliant imagery rendering

COMMERCIAL LEO & CISLUNAR SERVICES

Requirements definition, planning, payload design, mission integration, data analytics, human factors engineering, space food development, radiation analysis and autonomous software design

COMPLEX LOGISTICS

Planning, coordination, preparation, and packing of standardized containers for all International Space Station (ISS) cargo missions by international partner and commercial cargo vehicles

CYBER DEFENSE

Assessment, training, roadmaps, integrated tool solutions, measures of effectiveness, fact-based data analytics, visualization, resiliency, and automation to support analytical workflows

FOOD DEVELOPMENT & PACKAGING

R&D, production, and efficient packaging of safe, nutritious, and palatable food that sustains ISS crew while meeting safety and health requirements

HOSTED PAYLOADS

Development of Wide Field of View (WFOV) staring Overhead Persistent InfraRed (OPIR) sensors for missile detection, on-board processing and data analytics

HUMAN HEALTH & RADIATION

Development of state-of-the-art radiation monitoring systems, critical assessments of spacecraft shielding, and 24x7 console support for the Human Research Program for 16+ years

KEY MANAGEMENT

Design and development of cryptographic key management systems to update secure satellite communication encryption systems and enable compatibility with DoD Key Management Infrastructure (KMI)

MISSION & ENTERPRISE IT

Modernization of the full spectrum of IT including virtual collaboration, cloud/data center solutions, network/application services, asset management, and service desk

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PLAN/TRAIN/FLY

Development of human spaceflight operations capability, with direct support to mission preparations, crew, flight controller, instructor, and analyst training, and real-time mission execution

SCIENCE & RESEARCH MANAGEMENT

Delivery of medical services, food services, research, technology development, engineering, operations, and flight hardware development to support health, safety, and productivity of crews in space

SENSOR DEVELOPMENT

Design and development of active and passive space and airborne electro-optical sensor systems to support space situational awareness

SPACE HUMAN FACTORS

Human-centered design (HCD) for space-related hardware and software – including ergonomics, human-computer interaction, acoustics, and lighting – with expertise in requirements, prototyping, human-in-the-loop testing, human performance evaluation, and peer-reviewed space human factors research

SPACE MISSION INTEGRATION & OPERATIONS

Design, develop, operate, and sustain mission control and training systems with expertise in ground/large-scale satellite command and control and telemetry

STRUCTURED OBSERVATION MANAGEMENT

Big data harvesting of feature information contained in images

SYSTEM ON A CHIP

Custom, high-performance, reprogrammable processor intended for computationally intensive real-time software applications

SYSTEMS & SPECIALIZED ENGINEERING

Systems design, engineering, development, fabrication, integration, testing and verification including concepts of mission operations and in-space satellite servicing

Leidos is a Fortune 500® information technology, engineering, and science solutions and services leader working to solve the world's toughest challenges in the defense, intelligence, homeland security, civil, and health markets. The company's 32,000 employees support vital missions for government and commercial customers.

