

Space systems support

We deliver the mission



Perspecta has been providing aerospace operations and services to customers such as the National Aeronautics and Space Administration, the U.S. Air Force and others for more than four decades. We focus on customer requirements, and apply technology and expertise to deliver innovative solutions to our nation's most complex challenges. Winner of 11 Silver Snoopy awards, our team is committed to providing unparalleled customer service.

Systems engineering services

From overall project management to systems engineering, engineering design, flight hardware, product assurance, and development, test and evaluation, Perspecta is invested in the mission. We combine our experience with the latest industry advancements to deliver effective solutions. Our expertise includes project management, systems engineering, engineering design, launch vehicles, spacecraft, payloads, communications, ground control, ground support, big data, resilience and cyber protection.

- Mission solutions, architecture definition, acquisition requirements and planning
- Lifecycle technical support including risk and opportunity management
- Integrated critical path scheduling for large multiacquisition enterprises
- Ground system design and development for equipment handling, test, checkout, servicing
- Space flight software support, and systems engineering and hardware

Communications solutions

Perspecta's communications expertise encompasses technologies and solutions from undersea cable to deep space networks.

Together with Perspecta Labs, our innovative applied research lab, we are able to blend leading edge communications research with rigorous engineering to define concepts and deliver solutions for your most challenging communication needs.

- Quantum communications
- Cognitive networks

- Next generation standards
- Adaptation of terrestrial standards to space applications
- Spectrum management
- Space and ground architecture definition and trade studies
- Ground terminal location, environmental and atmospheric analytics
- Protection and resiliency
- Smart recapitalization
- Communications system operations

Software solutions

We develop complex real-time systems for command and control and data reporting applications. From man-rated launch control activities to real-time threat reporting, our software solutions deliver mission critical capabilities on time and on budget.

- Traditional and agile development techniques
- Scalable, cloud-based solutions
- Rapid prototyping and early risk reduction
- Complex scientific algorithms and critical methods
- Real-time big data analytics and visualization
- Diagnostics and forensics
- Mission operations and field support

Enterprise readiness and transition

Delivering new and enhanced missions requires broad expertise and excellent communication between mission partners, acquisition offices, contractors and facility owners. Perspecta tailors our corporate best practices to integrate complex acquisitions and deliver mission initial operating capability on time and on budget.

- Project management
- Integration planning and test event definition and orchestration
- Schedule and dependency management
- Progress metrics and corrective actions

- Conflict resolution

Mission analytics

Mission analytics quantify the facts, figures and trends necessary to design solutions that meet the needs of system users. Our people, processes and tools set the industry standard for delivering relevant and timely decision support data.

- Constellation, spacecraft and ground system design
- Enterprise, system and subsystem models and simulations
- Navigation, estimation and orbit control plans
- Mission performance and system/subsystem prediction
- Space situational awareness, resiliency and protection capability development
- Reliability and availability

Launch support

Maintaining government and commercial access to space requires reliable, successful operation of launch vehicles. Perspecta provides comprehensive, integrated support for launch vehicles—from business and administration solutions to engineering and launch operations.

- Program management support
- Mission integration and control
- Safety and mission assurance
- Spacecraft integration operations
- Communications and telemetry operations and management
- IT and systems engineering solutions
- Facility design, construction, operations and management subsystem prediction

Mission assurance

Perspecta's mission assurance support services include the disciplined application of systems engineering, risk management, quality, and management principles to achieve success of a design, development,

testing, deployment and operations process. Perspecta provides support in all areas of mission assurance.

- Parts and materials
- Risk management
- Quality assurance
- Safety

Mission operations

Support services include tracking and trending operational performance necessary to manage operations and optimize the mission. We manage and protect your assets and create opportunities to turn margin into mission.

- Constellation management, orbit maintenance and propellant management
- Satellite and subsystem telemetry analysis, models and simulations
- Precision navigation, position and attitude determination
- Mission performance and system/subsystem trending
- Anomaly resolution support
- Product quality engineering and assurance
- Tactics, techniques and procedures development
- Life estimation, reliability and availability
- Prototyping