

Space Solutions Fact Sheet

The Space Division at Dynetics, Inc., headquartered in Huntsville, Ala., provides flexible flight hardware development from low-cost prototypes through complete human-rated solutions.

Dynetics Space Division's capabilities include propulsion systems, small satellite development, mechanical and propulsion testing, system integration and assembly, mission design and vehicle sizing and vehicle structure design and manufacturing.

About Dynetics

Dynetics, a wholly owned subsidiary of Leidos, provides responsive, cost-effective engineering, scientific, IT solutions to the national security, cybersecurity, space, and critical infrastructure sectors. Our portfolio features highly specialized technical services and a range of software and hardware products, including components, subsystems, and complex end-to-end systems. The company of more than 3,000 employees is based in Huntsville, Ala., and has offices throughout the U.S. For more information, visit www.dynetics.com.

Key Facts

- Building a Human Landing System (HLS) for NASA's Artemis program
- NASA contractor for Space Launch System's (SLS) Universal Stage Adapter (USA)
- NASA Glenn Research Center's Large Business Prime Contractor of the Year (2018)
- Lonestar Small Satellite Developer for SMDC
- Propulsion system provider for Astrobotic robotic lunar lander
- Developer of innovative spacecraft and missile propulsion systems
- Built the NASA Space Launch System's Core Stage Pathfinder
- Designed the Laser Air Monitoring System (LAMS) for NASA Orion program
- Prime contractor for NASA SLS Advanced Booster Engineering Demonstration and Risk Reduction (ABEDRR) demonstrated low-cost, full-scale cryogenic tank
- Provider of critical flight components for SLS Core Stage and SLS Exploration Upper Stage
- Certified to build NASA, DoD, and commercial flight hardware
- More than 500,000 sq. feet of research and development facilities in North Alabama
- Aerospace Structures Complex in Decatur, Alabama

**Innovative, responsive, and
affordable solutions from
subcomponents
to full system**



Dynetics space capabilities include:



System integration and assembly

We provide systems engineering, AI&T, operations, and program management support across all system elements.

- Human-rated mechanical components
- Large aerospace structures (e.g., Universal Stage Adapter (USA) for Space Launch System (SLS))
- Build-to-print assemblies
- Prime contractor for complex system development, integration, verification, and operation (e.g., Human Landing System)



Small satellite development and manufacturing

Dynetics offers low-cost, rapid-response, and end-to-end small satellite development capabilities.

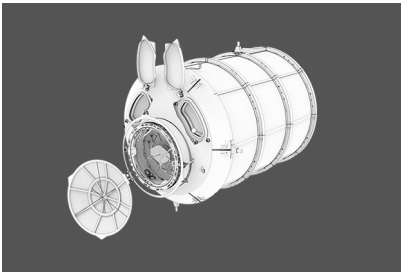
- Bus, subsystem, and flight software development
- Manufacturing, assembly, integration, and test
- Qualification testing and certification of flight readiness
- Launch system and payload integration
- Missions operations support and sustaining engineering



Vehicle structure design and manufacturing

From concept development through low-volume manufacturing, Dynetics provides comprehensive design, analysis, and manufacturing solutions.

- Aerospace structural components and assemblies
- Towed aerial targets
- Assembly tools
- Ground support equipment
- USA for SLS



Mission design and vehicle sizing

We offer extensive mission design, advanced concepts, and vehicle sizing capabilities to meet customers' needs.

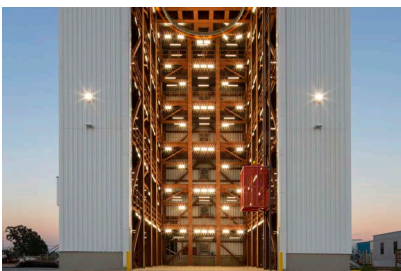
- Mission concept studies
- Spacecraft and launch concept development
- Vehicle sizing, configuration, and performance modeling and simulation
- Trajectory and orbital modeling and analysis
- Constellation design and optimization



Propulsion systems

Our expertise in design, analysis, systems engineering, integration, manufacturing, and test provides our customers with full-spectrum support for launch vehicles, missile systems, and spacecraft. We have experience with most rocket propellants, including:

- Liquid and gaseous oxygen, methane, and hydrogen
- Kerosene, propane, ethane, nitrous oxide, and hydrogen peroxide
- HTPB and various solid and hybrid fuels
- HAN (AF-315E) and hydrazine



Mechanical and propulsion testing

We have the experience, capabilities, and facilities to provide rapid, cost-effective propulsion, mechanical, and environment testing solutions for our customers.

- Propulsion testing of up to 50,000-lbf thrust-class engines and stages, including liquids, solids, hybrids, and gases; hypergolic storable propellants; and green propellants
- Mechanical testing of pneumatic and hydraulic systems, including cryogenics to hot gases, structural development and qualification, and proof and burst
- Environment testing, including vibration, temperature cycling, and thermal shock and vacuum

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