

Exploring Other Planets,
Improving Our Own.



About Red Canyon

Red Canyon Engineering and Software develops cutting-edge technology to help humankind explore space and other planets, as well as advanced renewable resources on Earth. We are proud to be involved with important missions ranging from searching for water on Mars, to analyzing the composition of distant comets, and building the next human spacecraft.

Our clients include government agencies such as NASA, NOAA, NREL, JPL, and DOD, in addition to customers such as Lockheed Martin Space, Raytheon, Sierra Nevada Corporation, a.i. solutions, Walt Disney Imagineering, SAIC, Ball Aerospace, SpaceX, Honeywell, KBRwyle, Maxar, Blue Origin, and Moog.

Red Canyon was honored to be awarded as the 2017 SBA Small Business Subcontractor of the Year - Region 8 and also to win the 2019 Outstanding Small Business award from Lockheed.

Missions

- Human Space Exploration: HLS, EFT-1, Artemis I, Artemis II, HHPC
- Earth Missions: EOSDIS EED-2, WorldView Legion V, GSMO-2, NOAA GOES-R, MethaneSat, Orbital Express, Small Sats
- Moon Missions: CLPS, GRAIL
- Mars Missions: Perseverance, InSight, Maven, Phoenix, MRO, Odyssey
- Jupiter Missions: Europa Clipper, Lucy, Juno
- Asteroid, Comets, and Sun Missions: OSIRIS-REx, Psyche, Janus, Kepler, Deep Impact, Stardust, Genesis
- Flight & Space Simulations: MarsFlight, VenusFlight, LunarSim, Dynamic Spacecraft Simulators, HPC 3-D visualization
- Robotics: Disney Imagineering animatronics
- NASA Commercial ISS Resupply: Dream Chaser
- Operations & Launch Services: KLXS-II, ELVIS III, New Glenn, Vulcan
- NASA Small Business Innovative Research (SBIR) grants

Core Capabilities

Red Canyon's engineers have participated in all stages of the spacecraft mission life-cycle, including:

- Proposal support
- Requirements & Design
- Development
- Integration
- Testing
- Operation
- Exploration
- Research

Specific Areas of Technical Expertise

- Flight Software
- Independent Verification & Validation
- Mechanical Design
- Structural Analysis
- Systems Engineering
- FPGA Design and Verification
- Guidance, Navigation, and Control
- Spacecraft Operations, Command, and Control
- Spacecraft Telemetry Analysis and Health Assessment
- Dynamic Spacecraft Simulators
- Hardware-in-the-Loop
- Spacecraft Assembly, Integration, Test, and Evaluation

Corporate Certifications



HUBZone
Certified



Service Disabled
Veteran Owned
Small Business



U.S. Small
Business
Administration



Defense Contract
Audit Agency
Compliant



Global
Conscience



GSA Schedule Contract Number

- GS00F044GA

NAICS Codes

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| ■ 541330 | ■ 481212 | ■ 541310 | ■ 541512 |
| | ■ 512191 | ■ 541511 | ■ 541715 |

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