



An Overview

– OUR MISSION –

WE ARE BUILDING A TECHNOLOGY
AND BUSINESS PLATFORM IN SPACE
TO IMPROVE LIFE ON EARTH.

ONE INNOVATIVE BUSINESS PLATFORM IN SPACE

FOUR DISRUPTIVE COMMERCIAL PRODUCT LINES

SPACE TRANSPORTATION



- Simplify transportation to and from space
- Target lowest cost cargo and crew in market segment

SPACE DESTINATIONS



- Emerge as the largest real estate developer in space
- Provide infrastructure and services

SPACE APPLICATIONS



- Next generation of differentiated technologies and services
- High-valued earth observation and on-orbit servicing constellations

SPACE VENTURES



- The catalyst for disruptive innovations in space
- The accelerator for commercial businesses to innovate on our platform

MILESTONES

-2013

- 10-inch long ceramic model of the Dream Chaser was prepared for high-speed wind tunnel tests at NASA's Langley Research Center in Hampton, VA.
- Simulation technicians installed a boilerplate Dream Chaser canopy structure over the cockpit of a flight simulator at NASA's Dryden Flight Research Center in CA.
- Astronauts Rex Walheim and Gregory Johnson were trained by NASA Langley aerospace engineer, Bruce Jackson to land the Dream Chaser spaceplane.

-2014

- NASA technician, Ricky Hall affixed grains of sand to a precise scale model of the Dream Chaser to simulate turbulence and the condition the real spaceplane would encounter during its return to Earth.
- Dream Chaser began its approach-and-landing flight test program in collaboration with NASA's Commercial Crew Program.

-2015

- NASA astronaut Kjell Lindgren harvests lettuce from the Veggie experiment that would become the first food grown in space to be eaten.
- Astronaut Scott Kelly initiated VEG-01 B, the second crop of lettuce, on July, 8, 2015, and both Kelly and Astronaut Kjell Lindgren cared for the plants. The crop grew for 33 days.

-2016

- NASA astronaut Shane Kimbrough during VEG-03 harvest and stow of Red Romaine lettuce, in the Columbus Module. Veg-03 used the Veggie plant growth facility to cultivate a type of cabbage, which was harvested in orbit with samples returned to Earth for testing.

-2017

- Dream Chaser was removed from its delivery truck in 2017, after arriving at NASA's Armstrong Flight Research Center in California, located on Edwards Air Force Base. The spaceplane underwent several months of testing in preparation for its approach and landing flight on the base's 22L runway.
- Dream Chaser successfully landed on an Edwards Air Force Base runway on Nov. 11th, after being lifted from the ramp at NASA Armstrong Flight Research Center in California.

-2018

- The first growth test of crops in the Advanced Plant Habitat (APH) aboard the International Space Station in March 2018 yielded great results.

-2019

- The cargo module – a 15-foot attachment to Dream Chaser – provides extra storage for payloads and provides cargo disposal upon re-entry into Earth's atmosphere.

-2020

- NASA selected Dream Chaser to provide cargo delivery, return and disposal service for the International Space Station under the CRS-2 contract.

-2021

- NASA astronaut Thomas Marshburn watched chile peppers growing inside the International Space Station's Advanced Plant Habitat (APH) before they were harvested for the Plant Habitat-04 space botany experiment.

-2022

- NASA astronaut Raja Chari worked inside the Life Science Glovebox and displayed cotton cells growing on a petri dish for the Plant Habitat-05 space botany study.



SIERRA SPACE MILESTONES

Sierra Space is a leading commercial space company that has built more than **4,000 space systems, subsystems and components** over more than **500 missions**, including **14 missions to Mars** and over **30 years** of space flight heritage.



- 2021

SIERRA SPACE LAUNCHED AS STANDALONE COMPANY FROM SIERRA NEVADA CORPORATION



— PARTNERSHIP WITH BLUE ORIGIN TO DEVELOP COMMERCIAL SPACE STATION



— NASA SELECTS ORBITAL REEF TO DEVELOP SPACE STATION REPLACEMENT



— SIERRA SPACE SECURED RECORD \$1.4BN GROWTH INVESTMENT



- 2022

COMPLETE FIRST DREAM CHASER CARGO VEHICLE BUILD



— INTRODUCTION OF NATIONAL SECURITY ADVISORY COUNCIL



— DELIVER FIRST DREAM CHASER CARGO VEHICLE



- 2023

DREAM CHASER FIRST CARGO MISSION TO ISS



- 2024

MULTIPLE DREAM CHASER CARGO FLIGHTS



- 2025

TARGET OF FOUR DREAM CHASER FLIGHTS PER YEAR



- 2026

DREAM CHASER FIRST CREW MISSION

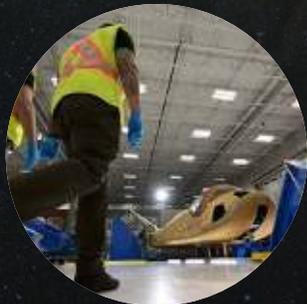


- 2027

ORBITAL REEF, THE NEXT PLATFORM FOR BUSINESS OPENS



— EIGHT DREAM CHASER MISSIONS OVER FOUR VEHICLES, MIX OF CARGO AND CREW MISSIONS



A UNIQUE VERTICALLY INTEGRATED SPACETECH COMPANY

TODAY

WE ARE BUILDING A SHARED
ECOSYSTEM IN SPACE.

OUR VISION

TO ENABLE HUMANITY TO BEGIN NEW
CIVILIZATIONS IN SPACE.

OUR MISSION

TO BUILD A PLATFORM IN SPACE TO
IMPROVE LIFE ON EARTH.

~\$400M
REVENUE

30+ YEARS
500+ MISSION
SPACEFLIGHT
HERITAGE

1,800+
TEAM
MEMBERS

\$3B+
ACTIVE
CONTRACTS



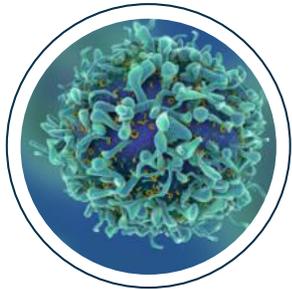
– FOCUSED STRATEGY –

First mover –
building the
platform for
the rapidly
growing space
economy

- BUILD A BETTER **SPACE TRANSPORTATION SYSTEM** THAT SCALES WITH MARKET DEMAND
- BUILD **EXPANDABLE SPACE INFRASTRUCTURE** TAILORABLE TO CUSTOMERS NEEDS
- BRING PARTNERS AND PROVIDERS ONTO OUR **PLATFORM**, INCREASING THE VALUE AND EXPERIENCE OF THE ECOSYSTEM TO END CUSTOMERS
- EXPAND OUR ECOSYSTEM WITH **VALUE ADDED SERVICES**
- LEVERAGE OUR COMMERCIAL SYSTEMS AND EXPERTISE TO **CAPTURE GROWING NATIONAL SECURITY SPACE MARKET**

OUR CUSTOMERS

THE NEXT PLATFORM FOR BUSINESS PRODUCT INNOVATION



BIOPHARMA

- Enable medical breakthroughs
- Benefit from the space environment while meeting terrestrial standards



EXPLORATION SERVICES

- Integration point and base station for lunar and deep space exploration
- Providing a platform for astronaut training and exploration system development



IN-SPACE MANUFACTURING

- Unlock the potential of microgravity for commercial businesses
- Achieve cost and production benefits of manufacturing space structure in orbit



HOSPITALITY AND ENTERTAINMENT

- Exclusive real estate
- Cultivate pipeline of high net worth individuals
- End to end service with Dream Chaser



INTERNATIONAL AND AGENCY

- NASA and international agencies will require platforms to provide crew training, human exploration, scientific research, and other missions beyond the life of ISS



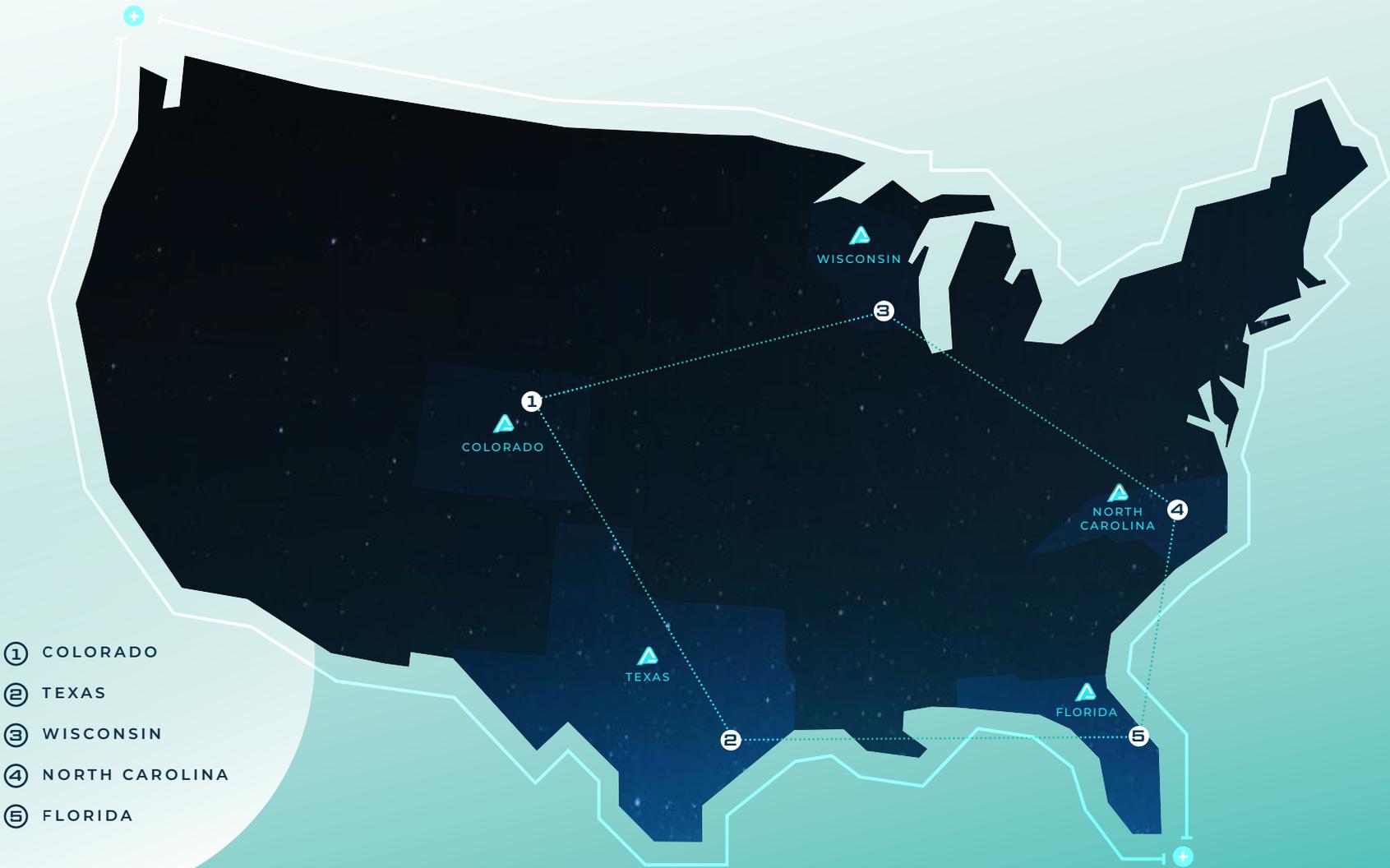
SATELLITES

- In orbit production and assembly
- In orbit delivery, deployment and servicing
- Decommission of LEO satellites for satellite owners and operators

OUR LOCATIONS

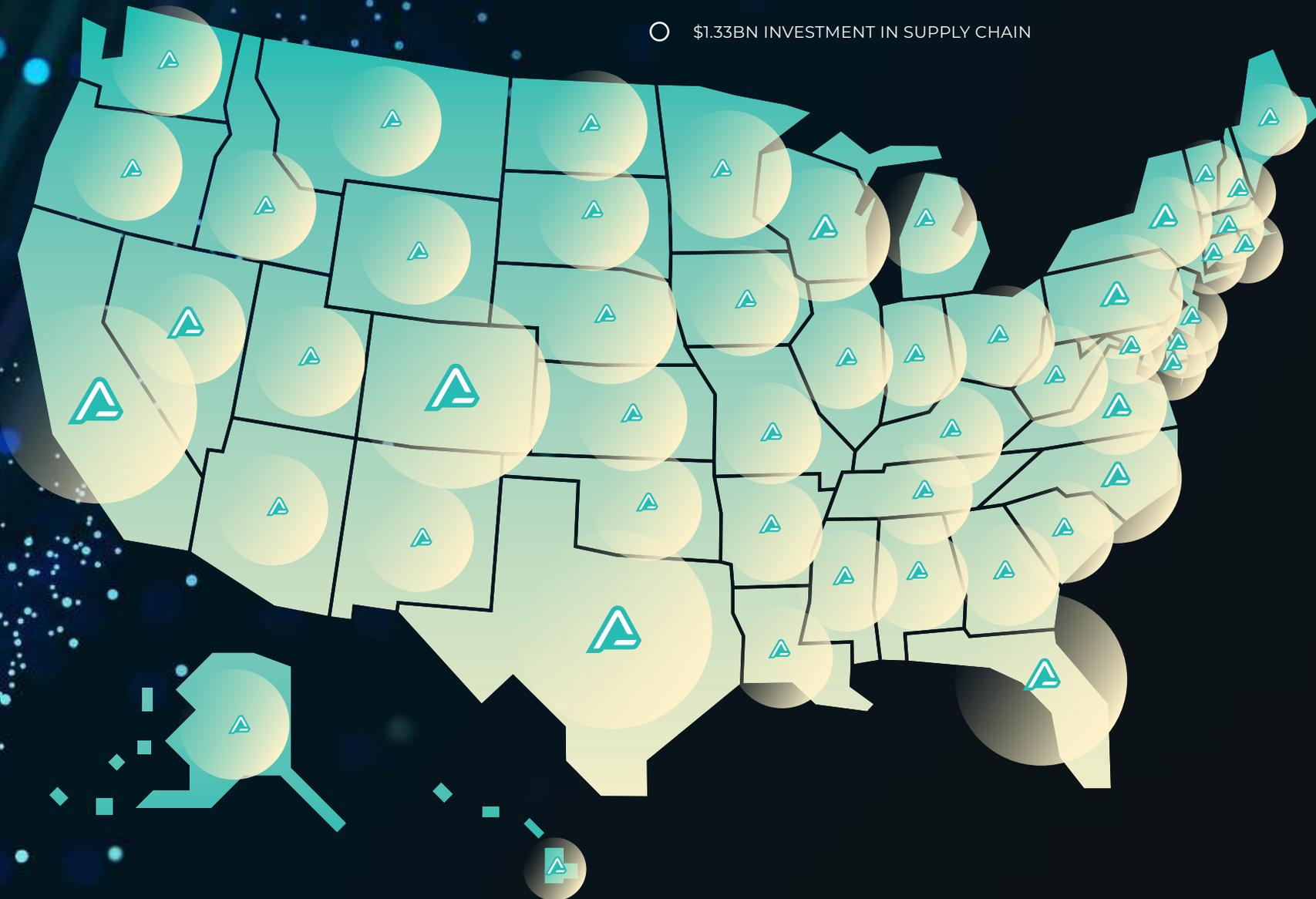
FULL CAPABILITY FACILITIES FOR SPACE MANUFACTURING & MISSION OPERATIONS

- FULLY INTEGRATED PRODUCTION, TEST AND INSPECTION CAPABILITIES
- FACILITY PARTNERSHIPS WITH NASA AND LAUNCH PROVIDERS AT KENNEDY SPACE CENTER
- MULTIPLE LARGE-SCALE TEST FACILITIES TO SUPPORT DEVELOPMENT
- >200,000 SQUARE FEET OF DEDICATED MANUFACTURING AND TEST SPACE
- BEST-IN-CLASS AUTOMATION AND MANUFACTURING CAPABILITIES
- STATE-OF-THE-ART MISSION CONTROL CENTER



AMERICA'S SPACEPLANE[®]

- MORE THAN 25,000 COMPONENTS FROM 2,000+ SUPPLIERS
- SIERRA SPACE SUPPLIERS IN EVERY US STATE
- \$1.33BN INVESTMENT IN SUPPLY CHAIN



SPACE TRANSPORTATION



DREAM CHASER®

Sierra Space's Dream Chaser® spaceplane is a multi-mission space utility vehicle design to transport crew and cargo to low-Earth orbit (LEO) destinations such as the International Space Station (ISS). Dream Chaser was selected by NASA to provide cargo delivery and return services for ISS. The Dream Chaser Tenacity™ spaceplane will be the first orbital vehicle in our Dream Chaser fleet.

KEY FEATURES

- THE ONLY COMMERCIAL RUNWAY CAPABLE SPACEPLANE
- 15+ MISSIONS – HIGHLY REUSABLE
- 6+ TONS CARGO CAPACITY
- 1.5G FORCE UPON RE-ENTRY

2023 CARGO LAUNCH
2026 CREW LAUNCH

THE ULTIMATE SPACE VEHICLE

30FT (9M) LONG

15+ TIMES
REUSABILITY

SPECIFICATIONS

SPECIFICATIONS

UNIQUELY CAPABLE OF
1.5 LOW-G RE-ENTRY

THE ULTIMATE SPACE VEHICLE

CAPABLE OF
DELIVERING 12,000LBS
OF CARGO TO THE ISS

SPACE DESTINATIONS

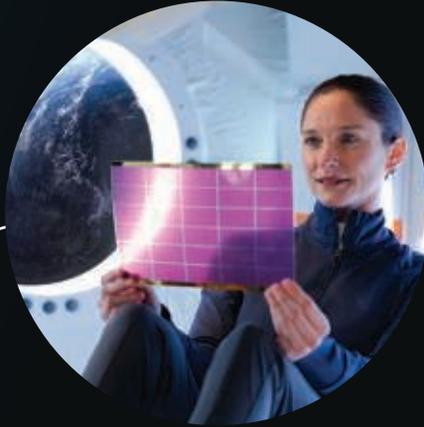
LIFE™ HABITAT

Sierra Space's LIFE™ Habitat (Large Integrated Flexible Environment) launches on a conventional rocket and inflates on-orbit to a large structure that is three stories tall, and 27 feet in diameter. It can comfortably sleep four astronauts, with additional room for science experiments, exercise equipment, a medical center and Sierra Space's Astro Garden® system, which can grow fresh produce for astronauts on long-duration space missions.

KEY FEATURES

- SIGNIFICANT VOLUME, POWER & DATA TO SUPPORT LONG-DURATION HUMAN HABITATION
- FLEXIBLE LAUNCH OPTIONS; COMPATIBLE WITH COMMERCIAL LAUNCH VEHICLES
- APPLICATIONS IN LOW-EARTH ORBIT, MARS TRANSPORT AND LUNAR/MARS SURFACE HABITATION

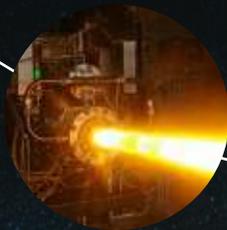
- SPECIFICALLY DESIGNED AND DEVELOPED BY SIERRA SPACE AND ITS PARTNERS
- DEVELOPED AND TESTED TO MEET NASA MICROMETEOROID IMPACT REQUIREMENTS



SPACE APPLICATIONS

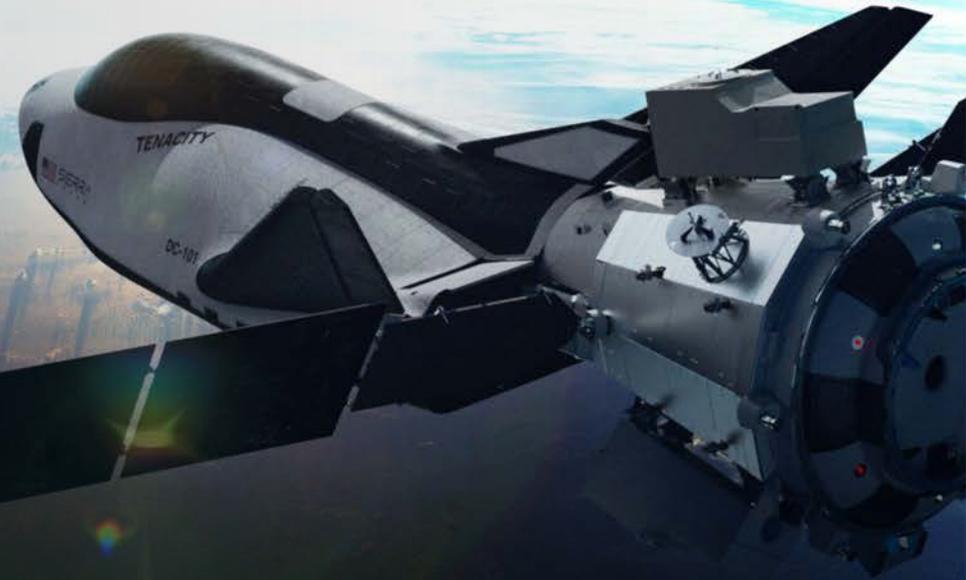
Sierra Space is an industry leader in precision space mechanisms and complex spacecraft subsystems. Our engineers are experts in precision motion control, low-shock separation and passive thermal control technologies. Customers leverage our extensive flight heritage, engineering capabilities and broad portfolio of qualified products to create programs that are low risk.

Our large manufacturing and state-of-the-art testing facilities allow us to deliver products on time and with confidence. Some of our verification capabilities include: vibration, thermal-vacuum, large area pulsed solar simulation, shock, radio frequency (RF), stiffness, motor/actuator speed-torque-accuracy, line-of-sight micro-motion jitter testing, functional testing and Surface Mount Technology (SMT) solar power systems.



SPACE VENTURES™

At Sierra Space we are building a platform in space to benefit life on earth. Through Sierra Space Ventures we will invest in entrepreneurs, innovators and start-ups that are developing the solutions and technologies of tomorrow.



MISSION FOCUSED

We are courageous pioneers, innovators and doers who are committed to building the platform that will power the space economy.



BUILD SYSTEMS

We have built space systems, subsystems, and components to customers worldwide while engaging in more than 500 space missions, including to Mars. Sierra Space is leveraging this experience to build the systems that will give humanity a platform in space to improve life on earth.



IMPLEMENT INNOVATION

Our innovations in spaceplanes, commercial space stations, cutting edge rocket propulsion, environmental control systems, advanced solar power generation, and other enabling space technologies will each disrupt the status quo, but combined our innovations will enable the acceleration of humanity's advancement in space.



WORLDWIDE REACH

Our relationships with NASA, ESA, and other space agencies across the world, as well as our extensive professional international network across our organization, ensure that Sierra Space Ventures' portfolio companies will have a worldwide reach.

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S P A C E
DREAMS WORTH CHASING®