

SNC[®]

Space Exploration Gateway, Moon & Mars

SNC's Gateway and deep space exploration concepts complement our extensive space portfolio which includes the *Dream Chaser*[®] spaceplane and Shooting Star cargo module. SNC's products for the Gateway leverage technology developed for the Dream Chaser vehicle and new technologies for lunar landing such as terrain navigation, hazard avoidance, and long duration ECLSS systems.

Don't Just Follow Your Dreams...CHASE THEM!

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Gateway, Moon & Mars

In conjunction with NASA missions & goals, SNC is developing ideas for lunar exploration with technology applicable to low-Earth orbit, moon missions and deep space exploration, including Mars. SNC is developing Gateway and lunar lander concepts under NASA's Next Space Technologies for Exploration Partnerships-2 (NextSTEP-2) program. We are expanding our transportation services beyond Dream Chaser and have developed systems for the Gateway Logistics Services (GLS) and Commercial Lunar Payload Services (CLPS) programs.

Capabilities

- Crewed & autonomous lunar landing systems
- Deep space exploration systems
- Recovery vehicles
- Habitat systems

Artemis & Gateway Developments

LIFE Habitat Prototype

- NextSTEP-2 Appendix A: Development of a full-scale Lunar Gateway architecture Habitat System prototype to support a crew of four
- Habitat prototype delivered to NASA's Johnson Space Center in May 2019
 - Successfully completed crew evaluation with high scores
- NASA extending contract for one year for additional prototyping & test

Astro Garden® System

- NextSTEP-2 Appendix A: Development of a complete Environmental Control & Life Support (ECLSS) system for the Habitation System
- ECLSS Hybrid Life Support System (HLSS)

Trash Compactor

- NextSTEP-2 Appendix F: Development of a Trash Compacting & Processing System prototype to reduce trash volume
- System to be put through a Preliminary Design Review
- Flight hardware design to do flight demonstration

Commercial Lunar Payload Services (CLPS)

- CLPS missions could pre-position assets on moon to support crewed mission in 2024
- SNC will mature & fly robotic spacecraft that will deliver a variety of small/large experiments, supplies & equipment to the moon

