



Space Lab Technologies, LLC

5455 Spine Rd, Ste ME · Boulder, CO 80301 · (720) 309-8475

Press Release

Space Lab® Café Wins NASA's Deep Space Food Challenge

(Boulder, Colorado – October 20, 2021) NASA announced the selection of 18 winning teams for Phase I of the Deep Space Food Challenge. Space Lab® Café, a novel crop production system from Space Lab Technologies, LLC in Boulder, CO was among the winning teams.

In Phase I of the Deep Space Food Challenge, teams were asked to create novel food production technologies that require minimal inputs and maximize safe, nutritious, and palatable food outputs for long-duration space missions and have potential to benefit people on Earth. Specifically, the challenge asked that the system fill food gaps for a 3-year round-trip mission for a crew of 4 with no resupply.

Space Lab® Café is a compact vertical farm that continuously produces a variety of nutritious produce with minimal water, power, waste, or processing time. It operates with or without gravity, in a Lunar, Martian, or spacecraft habitat, while providing a farm-to-table solution for Earth's urban centers or remote, harsh environments.

From the [Space Lab® Café animation](#):

"Space Lab® Café continuously produces nutritious and delicious ready-to-eat produce for long duration exploration missions. Because plant waste and water are recycled, consumable resources and process wastes are minimal. Food output is maximized by making efficient use of constrained space and limited power."

Each winning team will receive \$25k, which Space Lab® will use to continue development of Space Lab® Café in Phase II of the Deep Space Food Challenge. Space Lab® is proud to be developing the innovative food systems that will enable human space exploration to the Moon, Mars and beyond.

This novel crop production system evolved from several space agriculture technologies currently in development at Space Lab® through NASA's STTR program, including µG-LilyPond™ and MarsOasis®. µG-LilyPond™ is an autonomous, thin film hydroponic vertical farm for use in microgravity, that supports both aquatic and rooted land plants. MarsOasis® is an innovative Martian greenhouse that incorporates an inflatable, rigidizable dome, smart hybrid lighting, and an novel means of gathering CO2 from the Mars atmosphere.

Learn more about what Space Lab® is working on (including Space Lab Café) at www.spacelabtech.com

About Space Lab®:

Space Lab Technologies, LLC is a Colorado-based small disadvantaged business offering sustainable technology development and engineering support for space exploration via satellites, balloons, rockets, and space habitats. Services include systems design, electrical & mechanical engineering, integration & operations support, and data analysis for instrumentation, communications, power, structural, deployment, environmental control, and life support systems. Space Lab also conducts space science research.



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