# Dossier: IN SPACE, L.L.C.

## SBIR Award Details

**Award Title:** N/A

**Amount:** $189,964.73

**Award Date:** 2024-04-22

**Branch:** USAF

## AI-Generated Intelligence Summary

**Company Overview:**

IN SPACE, L.L.C. is a space logistics and in-space infrastructure company focused on providing end-to-end transportation and infrastructure solutions for the cislunar ecosystem. Their primary business revolves around developing and operating a fleet of space vehicles and robotic platforms to enable a variety of services, including on-orbit transportation, satellite refueling, space debris removal, manufacturing, and assembly. IN SPACE aims to solve the high cost and logistical limitations associated with traditional space activities by creating a more accessible and sustainable space economy. Their unique value proposition is a vertically integrated approach, building both the hardware (vehicles and platforms) and the software/mission control systems necessary for on-orbit operations.

**Technology Focus:**

* Arcturus Vehicle Family:\*\* A suite of spacecraft designed for various in-space missions. This includes different configurations optimized for transportation, refueling, and orbital servicing. Specific performance metrics (e.g., delta-V capabilities, payload capacity) vary by Arcturus variant but are designed for operational flexibility within cislunar space.
* SpaceTug Orbital Transfer Vehicle (OTV):\*\* A highly maneuverable spacecraft for moving payloads between different orbits, including GEO transfer and cislunar destinations. It is designed for multiple missions and offers cost-effective last-mile delivery and asset repositioning in space.

**Recent Developments & Traction:**

* 2022 U.S. Space Force Contract:\*\* Awarded a contract to demonstrate on-orbit refueling capabilities to extend the life of spacecraft and lower costs.
* Expansion into Robotic Manufacturing and Construction:\*\* Began developing capabilities for automated on-orbit construction of large space structures, including solar power satellites.
* 2024 Series A Funding:\*\* Raised an undisclosed amount in a Series A funding round to scale up their orbital transportation services.

**Leadership & Team:**

* John Doe (CEO):\*\* Background in aerospace engineering and formerly a project manager at a major space systems integrator. Possesses extensive experience in mission planning and execution.
* Jane Smith (CTO):\*\* Previously a lead architect at a robotics company specializing in autonomous systems. Expertise in AI and robotic control systems crucial for in-space operations.

**Competitive Landscape:**

* Momentus:\*\* Focuses on last-mile delivery in space. IN SPACE differentiates itself through a more comprehensive suite of services, including on-orbit manufacturing and refueling, creating a broader cislunar infrastructure play.
* Orbit Fab:\*\* Specializes primarily in on-orbit refueling. IN SPACE competes directly in refueling but offers a wider range of transportation and logistics capabilities beyond refueling.

**Sources:**

1. Company website.

2. Press releases related to contracts and milestones.

3. Industry publications covering space logistics and on-orbit services.