# Dossier: VIRIDIAN SPACE CORPORATION

## SBIR Award Details

**Award Title:** N/A

**Amount:** $73,406.00

**Award Date:** 2024-05-14

**Branch:** USAF

## AI-Generated Intelligence Summary

**Company Overview:**

Viridian Space Corporation is a privately held aerospace company focused on developing and deploying resilient space infrastructure, with a specific emphasis on in-space manufacturing, assembly, and servicing (ISAM). Their core mission centers on enabling sustained operations in space by significantly reducing the costs and risks associated with traditional launch-dependent architectures. Viridian aims to solve the problem of limited on-orbit capabilities by providing services that allow for the creation, repair, and modification of spacecraft and other space-based assets directly in space. Their unique value proposition lies in their ability to offer end-to-end ISAM solutions, integrating robotic systems, advanced materials, and autonomous processes to deliver tailored capabilities to both government and commercial customers.

**Technology Focus:**

* Proteus™ Robotic Platform:\*\* A modular and reconfigurable robotic arm system designed for a wide range of in-space manipulation tasks, including assembly, repair, inspection, and servicing of satellites and other orbital infrastructure. Proteus™ incorporates advanced sensor suites, computer vision, and AI-driven autonomy.
* In-Space Manufacturing:\*\* Focused on the development and deployment of additive manufacturing (3D printing) capabilities in space, allowing for the on-demand creation of components, tools, and even entire spacecraft structures using feedstock materials delivered from Earth or extracted from lunar or asteroidal resources.

**Recent Developments & Traction:**

* Contract with SpaceWERX (August 2023):\*\* Awarded a Small Business Innovation Research (SBIR) Phase II contract by SpaceWERX, the innovation arm of the U.S. Space Force, to further develop in-space manufacturing capabilities.
* Strategic Partnership with Altius Space Machines (December 2022):\*\* Collaboration focused on integrating Altius' rendezvous and docking technology with Viridian's robotic ISAM systems.
* Seed Funding (Undisclosed Amount, 2021/Early 2022):\*\* Secured seed funding from undisclosed investors to support initial development and testing of their robotic ISAM technologies.

**Leadership & Team:**

* Michael Dignam (CEO):\*\* Prior experience includes roles in aerospace engineering and program management, demonstrating a background in spacecraft systems and mission operations. Details of previous companies not publicly specified.
* Team Expertise:\*\* The company highlights its team's expertise in robotics, aerospace engineering, advanced materials, and software development, suggesting a blend of technical skills relevant to ISAM operations. Details on individual team members beyond the CEO are limited in easily accessible public information.

**Competitive Landscape:**

* Redwire Space:\*\* Redwire Space is a prominent competitor in the in-space manufacturing arena, offering a range of services including 3D printing and advanced materials development for space applications.
* Differentiator:\*\* Viridian differentiates itself through its focus on a holistic ISAM solution, combining robotic manipulation, additive manufacturing, and autonomous operations to provide comprehensive on-orbit support capabilities. While Redwire also offers in-space manufacturing, Viridian appears to be heavily emphasizing robotic servicing and assembly alongside it, which could provide a more complete service offering.

**Sources:**

1. [https://www.viridianspace.com/](https://www.viridianspace.com/)

2. [https://spacewerx.us/portfolio/viridian-space-corporation/](https://spacewerx.us/portfolio/viridian-space-corporation/)

3. [https://www.crunchbase.com/organization/viridian-space-corporation](https://www.crunchbase.com/organization/viridian-space-corporation)