

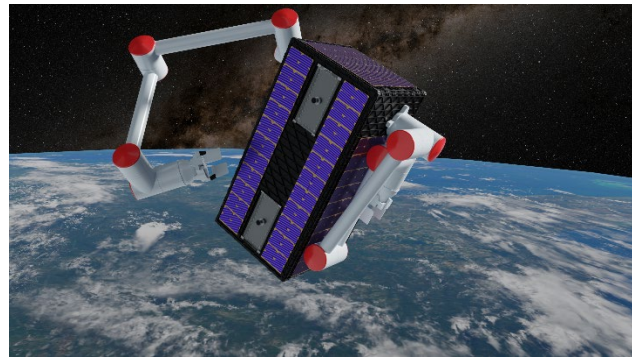
FOR IMMEDIATE RELEASE

Howe Industries awarded SpaceWERX Orbital Prime Contract

Howe Industries has been awarded a Phase 1 STTR under the SpaceWERX Orbital Prime Program

September 23, 2022 – Howe Industries

announces it has been selected by SpaceWERX for a STTR Phase I in the amount of \$241k to investigate how its ROAMER orbital service vehicle might enable In-space Service Assembly and Manufacturing (ISAM) capabilities being explored by the Department of the Air Force (DAF) and United States Space Force (USSF) through the Orbital Prime program. The ROAMER technology uses ThermaSat propulsion for high thrust operation with

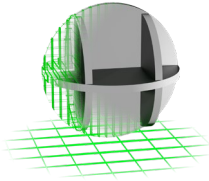


minimal power needs. Orbital Prime was created to accelerate the commercial ISAM market toward a use case of Active Debris Remediation. The Air Force Research Laboratory and SpaceWERX have partnered to streamline the Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) process by accelerating the small business experience through a faster proposal to award timelines, changing the pool of potential applicants by expanding opportunities to small business and losing bureaucratic overhead by continually implementing process improvement changes in contract execution. The DAF began offering 'The Open Topic' SBIR/STTR program in 2018 which expanded the range of innovations the DAF funded and now on 6/28/2022, Howe Industries started its journey to create and provide innovative capabilities that will strengthen the national defense of the United States of America.

About Howe Industries

Dr. Troy Howe, PhD (CEO) started Howe Industries in 2015 with the mission to introduce technologies – with both space as well as terrestrial applications – that derive from their team's expertise in nuclear technologies, thermal systems, and space propulsion. Reflecting the company's culture of innovation and excellence, Howe Industries has been the recipient of multiple grants from federal agencies, including NASA (and NASA NIAC), DARPA as well as the NSF. In addition to the ThermaSat CubeSat propulsion system, Howe Industries has developed the solid-state, Advanced Thermoelectric Generator (ATEG), new fuel for nuclear thermal propulsion, and the even more high-tech nuclear Pulsed Plasma Rocket.

Other projects range from debris de-orbiting to a rover for the surface of Mercury (which will be both powered and cooled using ATEG). The company is also investigating the application of their extensive knowhow towards the development of a compact fission-power station for the envisioned lunar base.



About AFRL

The Air Force Research Laboratory (AFRL) is the primary scientific research and development center for the Department of the Air Force and United States Space Force. AFRL plays an integral role in leading the discovery, development, and integration of affordable warfighting technologies for our air, space, and cyberspace force. With a workforce of more than 11,000 across nine technology areas and forty other operations across the globe, AFRL provides a diverse portfolio of science and technology ranging from fundamental to advanced research and technology development. For more information, visit:

www.afresearchlab.com.

About SpaceWERX

SpaceWERX is the Space component of AFWERX (a program office at the Air Force Research Laboratory - AFRL) which connects innovators across government, industry, and academia. Through innovation and collaboration with our nation's top subject-matter experts and harnessing the power of ingenuity of internal talent, by expanding technology, talent, and transition partnerships for rapid and affordable commercial and military capability. Additional information is available at: <https://www.spacewerx.us/>.

About SpaceWERX Orbital Prime

SpaceWERX Orbital Prime leverages a diverse industry partnership engagement strategy to identify nascent space technology sectors that, if "primed," could advance U.S. national security and economic prosperity. Prime engagement is not limited to government investment, but also allows SpaceWERX to address key policy concerns as well as offer testbeds and platforms to advance capabilities. The first Space Prime effort, Orbital Prime will invigorate the In-space Servicing, Assembly, and Manufacturing (ISAM) market using Active Debris Remediation (ADR) as a use case for the foundational technologies. Learn more at <https://spacewerx.us/space-prime/>.

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