



Turning space into the world's most advanced semiconductor manufacturing environment.

Besxar Space Industries, Inc. (Besxar) is pioneering a new class of space-based manufacturing to overcome the limits of terrestrial semiconductor fabrication. The company builds reusable “Fabships” that harness the ultra-high vacuum (UHV) of space to produce ultra-pure substrates and precursor materials—essential building blocks for next-generation technologies. Manufacturing in space allows purity and yield levels impossible on Earth, effectively doubling chip cost-effectiveness for these critical applications.

Traditional chip factories face constraints in power, cooling, and materials. Besxar’s autonomous orbital manufacturing platforms overcome these barriers and return to Earth after each mission—not only delivering materials but also capturing insights to refine performance. Each cycle improves precision, efficiency, and reliability, making every subsequent orbital manufacturing run more effective.

Founded in 2023 by Ashley Pilipiszyn, a former early OpenAI employee, Besxar is headquartered in the historic Boilermaker Building in Washington, D.C.—a former naval industrial facility that produced boilers, gun mount shields, barrel plates for torpedo tubes, and a range of critical components for Navy ships during WWI and WWII. The location honors America’s industrial heritage while bringing advanced, space-based manufacturing to our nation’s capital.

Besxar’s materials serve industries that demand the highest-performance semiconductors, from AI and quantum computing to nuclear technologies and defense applications. By combining space-based production with a focus on domestic resilience, Besxar is rebuilding the U.S. semiconductor base and redefining how—and where—humanity’s most critical technologies are made.

For media inquiries or interview requests, please email press@besxar.com. For general questions or information, please contact info@besxar.com.