

**WHO**

**SYSCOM:** NAVAIR  
**Sponsoring Program:** Chief Technology Office, Naval Air Systems Command (NAVAIR)  
**Transition Target:** Initial target application: VXE30 STALKER  
**Other Transition Opportunities:** Other UAS platforms with VTOL such as AeroVironment Quantix Recon or Aurora Flight Systems SKIRON-X. Additionally, could be implemented into any structure that acts as a beam under load

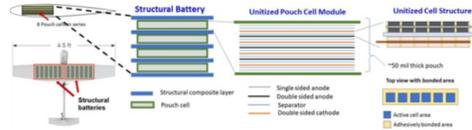


Image courtesy of Lynntech, Inc

**Notes:**

**WHAT**

**Operational Need and Improvement:** Unmanned aerial systems (UASs) are vital to modern military operations, providing intelligence, surveillance, reconnaissance, and real-time situational awareness, enhancing operational efficiency, and minimizing risks to personnel. However, current UAS designs face challenges related to flight duration, mission capabilities, and structural efficiency, limiting their performance for extended missions and adaptability to operational needs.

**Specifications Required:** Lynntech’s structural battery solution can be implemented directly into a fixed wing structure to add additional energy storage within the lift generating structure.

**Technology Developed:** Batteries or “energy and power” need being ubiquitous to pretty much any application, such structure integrated battery solution can be utilized in any application where the battery needs to be targeted UAS applications.

**Warfighter Value:** Lynntech’s structural battery solution will improve performance and efficiency, extend mission duration, and provide feasibility to add new capabilities or functionalities to small UASs within current mass/volume envelope, thereby maintaining a technical advantage in the battlefield.

**WHEN**

**Contract Number:** N68335-25-C-0006 **Ending on:** Apr 21, 2027

Milestone	Risk Level	Measure of Success	Ending TRL	Date
Interfacial layer development	Medium	Development of an interfacial layer that can bond the anode, separator and cathode layers together such that the bond can survive the expected shear stress experienced in chosen UAS platform.	4	4th QTR FY25
Year 1 Demonstration	Medium	Demonstration of multilayer pouch cell under structural and electrochemical testing.	4	3rd QTR FY26
UAS Platform integration design	Low	Design mechanism for incorporating the structural battery within the wing structure of a UAS platform	4	1st QTR FY27
Final Demonstration	Low	Demonstrate fully integrated and functional structural battery within wing like component under both structural and electrochemical performance.	5	3rd QTR FY27

**HOW**

**Projected Business Model:** Lynntech has a proven track record of moving technology to market, primarily through our ability to match technologies with the correspondingly appropriate business models. In recognition of this, Lynntech received the 2016 Tibbetts Award, a prestigious award that recognizes organizations that exemplify the very best in SBIR achievements. We are a for-profit organization and transition/commercial success is the objective of every development effort. Being a small company, we are highly versatile and are therefore open to adopting different, unique, and creative methods to achieve transition and commercialization success. Successful commercialization is part of our company’s growth strategy.

**Company Objectives:** Lynntech operations are currently managed by Barton Arndt (Chief Operations Officer), who has over 25 years of experience in senior manufacturing positions and managing Fortune 500 companies. Lynntech’s Business Development efforts are supported by Sanjiv Lalwani, who has prior experience in the launch and management of a technology-based start-up that successfully commercialized a range of products, and currently works to identify all potential partners (Commercial and Government) to create the critical mass needed to carry product development efforts beyond Phase I and Phase II (SBIR). Additional marketing personnel may be brought in for successful commercialization of Lynntech’s Structural Battery technology as needed when the product is ready for commercialization.

**Potential Commercial Applications:** Primarily we believe successful commercialization of Lynntech’s Structural Battery could be through a collaboration with the Battery Innovation Center (BIC). BIC was founded in 2013 with the mission of accelerating innovation in the field of battery technology by providing access to the entire spectrum of R&D to commercialization. BIC will undertake scaling up and mass producing the underlying technology and manufacturing process developed at Lynntech for commercialization. Additionally, Lynntech could partner with UAS manufacturer such as AeroVironment, Aurora Flight Sciences or Edge Autonomy to ingrate the structural battery design into a future UAS product.

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