


SOLDIER POWER COHORT

HELP THE ARMY POWER SOLDIERS ON THE MOVE



The U.S. Army wants to join forces with new industry partners through the Soldier Power Cohort to transform compact expeditionary power solutions.

BACKGROUND ON THE PROBLEM

The U.S. Army has increasingly applied advanced technologies to create enormous force multipliers on the modern battlefield. As a result, Soldiers “on the move” in expeditionary environments now contend with the challenges of additional weight, gear, and demand for ever increasing amounts of power. The accumulating burden of ensuring sufficient power when and where it’s needed requires next-gen tech solutions to keep our Soldiers safe and effective in the harshest environments.

Fortunately, the commercial market is working to solve many of the same issues that impact the Army. Dramatic improvements in energy and power density for low-power commercial applications have simultaneously increased the amount of output achievable while reducing size and weight. Intelligent power management and distribution solutions also have been instrumental in enhancing overall efficiency (as well as convenience) for consumers.

With similar challenges facing both the military and the commercial market, the Army wants to join forces to transform compact expeditionary energy and power solutions for Soldiers.

ABOUT THE SOLDIER POWER COHORT

To explore and develop these power and energy solutions, the Army Applications Laboratory (AAL) is partnering with a diverse group of Army modernization and transition stakeholders to stand up the **Soldier Power Cohort** and deliver enhanced expeditionary capabilities to Soldiers.

Created and managed by a proven contractor team from Huntington Ingalls Industries, Inc. (HII), this program will identify and explore technologies to help the Army deliver smaller, lighter energy and power capabilities to Soldiers.

Specifically, we want to find solutions in these areas:

- Compact power generation
- High-density energy storage
- Rapid charging / recharging
- Power conversion, distribution and management

The Soldier Power Cohort will bring together commercial and military experts, as well as Army customers, to explore how proposed solutions can be effectively deployed across the U.S. Army.

Keep Soldiers safe and effective by transforming compact expeditionary power to support self-sufficiency, reduce burdens, and lessen dependence on resupply.

HOW IT WORKS

The Soldier Power Cohort is designed for companies that are developing innovative power generation and power conversion, high-density energy storage, and intelligent management and distribution technology.

THE COHORT PROCESS

Step 1 — Identify and select top-tier, untapped businesses that are working on relevant technology to join the Soldier Power Cohort

Step 2 — Share insight with the Cohort companies on specific business and technical challenges the Army is facing with individual/small unit expeditionary power

Step 3 — Introduce how these new systems will be implemented and how current systems and end-users will use their technology

Step 4 — Help Cohort participants iterate on solution concepts with one another and with a cross-functional team of Army stakeholders

Step 5 — Present solution concept designs from Cohort members to senior Army leadership for the opportunity to move on to the next phase of development

Step 6 — Move into a proof of technology phase of work with Cohort companies that are selected based on their solution concept design

REASONS TO JOIN

Get paid to prove your technology works — even in the harshest environments.

Companies selected to participate in the Soldier Power Cohort will receive \$100k to complete an 8-week program that culminates in a concept presentation with the chance for a follow-on contract.

Collaborate with other experts and end users to realize unprecedented expeditionary power.

Inform your solution design by working alongside other commercial experts, military experts, and Army end users to refine and develop new expeditionary power concepts as one team.

Help U.S. Soldiers cut the cord with lighter, self-sufficient power

When Soldiers and small units have self-sufficient power, they don't have to worry about their gear turning off when they need it most. You can be part of putting that capability into their hands.

GET INVOLVED

To be considered for the Soldier Power Cohort, follow the instructions at aal.army/cohort/submit. The deadline to submit is 11:59pm CT on 11.16.2021.

Your submission should tell us more about your company, your technology, and what you could uniquely bring to

help solve this challenging Army problem. Our team will review your submission. We may contact you or schedule a call if we have questions or need more information. After a thorough review process, we'll invite selected companies to join the Soldier Power Cohort and notify all who submitted of their status within 30 days.

ABOUT THE ARMY APPLICATIONS LABORATORY

AAL is not a laboratory in the traditional sense of the word. We don't make things — we make things possible. AAL is the Army's innovation unit and a partner for both industry and government organizations. We create practices and processes to speed capability development and turn cutting-edge ideas into real, relevant solutions for Soldiers. Learn how we do it at aal.army.



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