

UEI TJBWPQMC24N9	CAGE 267M8	NAICS 541330 · 541715	BUSINESS TYPE Small · Veteran-majority-owned
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Peregrine Applied Sciences builds sensor-fusion software and RF systems that make separate sensors, platforms and networks work as one system, including when links are degraded or cut. We fuse radar, RF, camera, air-traffic and operator data at the edge, share only the evidence that matters across constrained links, and deliver one picture to the C2 systems units already use.

CORE COMPETENCIES

- **Distributed sensor fusion and edge processing.** Multi-sensor, multi-node fusion with bandwidth-aware sharing and partition-tolerant operation. Nodes keep working through outages and rejoin cleanly.
- **Sensor-to-C2 interoperability.** Adapters for radar (ASTERIX), ADS-B, Cursor on Target, RF direction finding and MAVLink; output to TAK/ATAK and Anduril Lattice; MIL-STD-2525 symbology.
- **Resilient networking and RF engineering.** Tactical communications, mesh radio integration, retransmission, antennas and link architecture, test and troubleshooting to depot standard.
- **Modeling, simulation and test.** Multi-node scenario simulation and replay, degraded-network testing, and software- and hardware-in-the-loop integration.
- **AI assurance and LLM security.** Adversarial testing of language-model systems, including prompt injection. Creator of InjectLab, an open-source LLM security framework (arXiv:2505.18156).
- **Systems engineering and mechanical design.** Requirements, interface control, verification planning; CAD, packaging and configuration-controlled technical data packages.

PAST PERFORMANCE AND RELEVANT EXPERIENCE

COMPANY WORK (2026, SELF-FUNDED)

- **FOVEA mission software.** Production build of the fusion engine and C2 operator console, tested end to end in simulation. Live output to TAK and Anduril Lattice confirmed in company testing.
- **LOOKOUT drone awareness for fire aviation.** Built at the request of the U.S. Forest Service (letter of intent). Fuses partner radar and Remote ID detections for aircrews and TAK users. Running in simulation and replay.

TEAM EXPERIENCE (PRIOR ROLES)

- DoD tactical data link subject-matter expert work (all three founders).
- 13 years of Army RF, retransmission and depot-level sustainment, followed by 17 years in defense contracting.
- U.S. Air Force F-16 avionics maintenance and systems troubleshooting.
- 30 years of production CAD, packaging, producibility and technical data packages.

THE WORK



FOVEA C2 fused track picture: air, maritime, RF-emitter and UAV tasking. Simulated scenario; imagery © Esri.

DIFFERENTIATORS

- **Works disconnected.** No central server to lose. Every node keeps fusing and acting, and the common picture recovers when links return.
- **Evidence you can audit.** Every track shows which sensors contributed and when; every tasking shows its reasoning.
- **RF through software under one roof.** The same team owns the radio link, the fusion software and the mechanical package.
- **Built by operators and maintainers.** Sustainment and field experience shapes design from day one.

COMPANY DATA

Legal name	Peregrine Applied Sciences, Inc.
Entity	Delaware C-Corporation, 2026
UEI / CAGE	TJBWPQMC24N9 / 267M8
NAICS	541330 Engineering Services 541715 R&D in the Physical, Engineering and Life Sciences
Business type	Small business; veteran-majority-owned
Location	El Paso, Texas

Point of contact

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