

SMALL BUSINESS CAPABILITIES SUMMARY

AEROSPACE

EaglePicher, a leading U.S. manufacturer with a legacy dating back to 1843, is a recognized leader in mission-critical energy solutions. Our Aerospace Business provides tailored, high-reliability energy storage and power delivery systems for rigorous NASA and DoD-sponsored programs. Headquartered in Joplin, Missouri, we are committed to uncompromising quality and continuous improvement.

⚙️ ADVANCED BATTERY CHEMISTRIES

- Expertise with > 30 battery chemistries, focused on Lithium-ion & Lithium primary (non-rechargeable) Li/CF_x & $\text{Li}/\text{CF}_x\text{-MnO}_2$
- Emphasis on high-energy & power-dense cells, with experience in producing pouch, prismatic, & cylindrical forms
- Implementation of our own specialty electrochemistries, with select commercial cell options
- Leader in non-propagating Lithium-ion cell module designs for crewed Space missions

👥 RESEARCH & DEVELOPMENT

- Proven innovations leveraging collaborations across academia, consortiums, government agencies & our customers
- Continuously refining cell performance, battery safety, & extreme environmental capabilities

🚀 MISSION-CRITICAL RELIABILITY & QUALITY

- In-house testing capabilities: vibration, shock, acceleration, temperature, altitude, humidity, thermal vacuum, cell & battery cycling, & failure characterization

📊 INTEGRATED POWER SYSTEM SOLUTIONS

- Design, development, & manufacturing of complete battery assemblies having advanced power & thermal management, with integral monitoring & control subsystems
- Systems Capabilities: Developing in-house electronics and software monitoring & control architectures

🕒 PAST PERFORMANCE

- 1958: NASA Explorer 1 satellite
- 1970: Facilitated Apollo 13 crew's safe return
- 1998: Powers International Space Station
- 2001: B-2 Spirit Stealth Bomber switches to Lithium-ion
- 2003: Powers Mars Opportunity rover
- 2013: Mars Maven
- 2018: OSIRIS-REx, Bennu asteroid
- 2020: Batteries onboard Mars Perseverance rover

💡 KEY CUSTOMERS

- Trusted Partner: Long-standing relationships with numerous DoD & NASA-sponsored Primes and OEMs



Directed Energy (HEL)
Li-ion Battery & Control Module



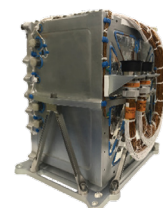
LP33333 28V, 55Ah
Li-ion Aviation Battery



Artemis (Orion)
Lithium-ion Battery



Space-COTS
18650 Li-ion Battery



Mars Perseverance
Lithium-ion Battery

U.S. SUPPLIER, SMALL BUSINESS, COMPANY LEGACY

Unparalleled Heritage: Supporting U.S. Space missions since the 1950s, logging billions of cell hours without a mission failure

Industry Leader in Primary (Non-Rechargeable) Cell Technologies:

Our $\text{Li}/\text{CF}_x\text{-MnO}_2$ cell's hybrid cathode offers the highest specific energy with lower self-discharge than other Lithium primary cells

Domestic Manufacturing: All battery solutions are 100% developed & produced in the USA, ensuring supply chain security & supporting national Defense

FOUNDED IN 1843 | HEADQUARTERS IN JOPLIN, MISSOURI

DESIGN & MANUFACTURING IN JOPLIN, MISSOURI

CERTIFICATIONS: ISO 9001:2015 & AS9100D

UEI: TUNPLSDV534

CAGE CODE: 81855

NAICS: 335910 - BATTERY MANUFACTURING

JAMES BOND

DIRECTOR, APPLICATIONS DEVELOPMENT

James.Bond@eaglepicher.com | Office: 417-208-1593

eaglepicher.com/aerospace