



# U.S. Army Research Institute of Environmental Medicine

Optimizing the Human Weapon System for Any Environment, Anywhere

**The U.S. Army Research Institute of Environmental Medicine** researches and delivers critical solutions to maximize Warfighter readiness and operational effectiveness across all environments. By integrating physiology, cognition, advanced sensing, and evidence-based nutrition, USARIEM enhances physical and cognitive resilience in the most extreme operational conditions. The institute's specialized research directly informs doctrine and strategic guidance, ensuring sustained combat power and survivability in cold, heat, high-altitude, and other austere environments.



**100+** Scientific Papers Published Annually

Contributing extensive peer-reviewed research to the global medical and military communities

**200+** Global Strategic Partners

Collaborating with industry, academic, and government agencies to drive innovation.

**150** Dedicated Military, Civilian & Contract Employees

A specialized workforce focused on enhancing lethality for the future force.

## Priority Warfighter Challenges

USARIEM focuses on solving high-impact operational problems:

- Blast Overpressure & Brain Health: Mitigating acute and cumulative effects to preserve long-term cognitive and physical performance
- Extreme Environment Operations: Sustaining Warfighter effectiveness in the most demanding conditions, including Arctic, Heat, High-Altitude, and Sub-Terranean environments
- Data & Decision Science: Delivering predictive analytics and evidence-based insights to leaders at the point of need

**Operational Integration:** USARIEM research is conducted in real-world environments and integrated with operational units and training pipelines, ensuring solutions are validated, scalable, and mission-ready.

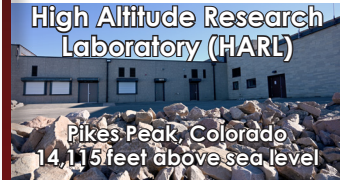
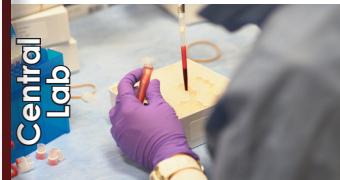
## Data Advantage: SPHERE

**The Soldier Performance, Health, and Readiness (SPHERE)** system provides:

- Population-level longitudinal data across all Services
- Integrated health, performance, and personnel datasets
- Advanced analytics for predictive modeling and decision support

The SPHERE collects performance, health, and personnel data from over 7 million Soldiers, including Active Duty, National Guard and Army Reserves.

## FACILITIES



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