

Human Health and Performance: Readiness, Resilience and Recovery

From harsh battlespaces to resource-constrained, long-duration space flights, human health and performance in austere environments is critical to mission success. As the threat environment continues to evolve, we must adapt our focus and capabilities to meet these new challenges.

Battelle has over 90 years of experience developing R&D, technology, and solutions to augment human health and performance for civilians, warfighters, and veterans alike. We partner with organizations to develop transformational medical technologies to analyze and mitigate the physical, mental, and environmental threats of duty.

By amplifying our biology, chemistry, and material science expertise with human-centric design and computational science, Battelle delivers holistic solutions to optimize human performance from training to mission execution, to recovery.



BATTELLE

The Battelle Approach

Decades of research and multidisciplinary expertise combine to deliver novel solutions and tactical implementations to improve the comprehensive health and performance of those who serve our nation. Our 2,600+ scientists and engineers across the organization understand how to translate cutting-edge science and technology with known performance gaps to enable individual and mission success.

OUR CAPABILITIES

MEDICAL DEVICE DEVELOPMENT

65+ years of medical device design and development experience

40+ medical technology patents and 100+ patents pending

100% approval rate for FDA submissions with Battelle human-centric design work

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

80 data and computer scientists supporting biostatistics, machine learning, and genomics

40+ PhDs, data scientists, and statisticians

DRUG DEVELOPMENT AND CLINICAL PROGRAMS

Developed animal models and GLP studies for the FDA approval of **11** drugs via the Animal Rule

A library of **1000+** Polymeric Nanoparticles (PNPs) delivering **2x** the payload of existing gene editing vehicles*

NEUROTECHNOLOGY

32 neurotechnology patents

130+ publications on decoding, neuromodulation, sensing, stimulation, and rehabilitation

A team of nearly **30** individuals across a broad range of disciplines

EXPOSURE SCIENCE

Supporting **2.8 M** active-duty Navy and Marine Corps personnel and their dependents, as well as retirees via the Navy and Marine Corps Public Health Center

70+ years providing decision support to identify and mitigate occupational and environmental health threats, improve force health protection, and enhance medical readiness

*Source: Internal study, available upon request.

Roya Mohadjer

Vice President, Business Development, Health

Mobile: 202.306.6014

mohadjer@battelle.org