Human Performance Optimization



A wide variety of conditions affect human performance including environmental exposures, injury, illness, and physical state (e.g., sleep deprivation). The ability to quantify human performance is critical to successful identification and mitigation of factors that negatively affect performance and to reduce the risk of accidents, errors, and injuries.

Accurate Sensing

MITRE provides the U.S. Government with holistic capabilities to support human performance optimization and injury prevention including quantitative measurement of performance, exposure, and physiology. Capabilities include:

- Laboratory and field research on health and performance effects including noncontact health monitoring, kinematics, and neurocognitive assessments,
- Evaluation of sensing capabilities including wearable environmental exposure and physiology sensors in the laboratory and the field, and
- Multi-sensor system integration for holistic solutions considering the many factors affecting performance.

Decision Support Analytics

MITRE gathers stakeholder requirements, conducts literature reviews, and analyzes data to develop tools and recommendations for policy, procedures, training, and personal protective equipment to support health and performance optimization to facilitate mission success and a safer world.

For information about MITRE's Human Performance Optimization expertise and capabilities, e-mail bio@mitre.org.

"Every dead body on Mount Everest was once a highly motivated person."

Douglas A. Boneparth

MITRE's mission-driven teams are dedicated to solving problems for a safer world. Through our public-private partnerships and federally funded R&D centers, we work across government and in partnership with industry to tackle challenges to the safety, stability, and well-being of our nation.

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