KEY PRACTICE AREAS

Complex Military and Federal Government Systems

User-Centered System and Software Engineering

Human Factors Engineering

Human-Autonomy Interaction incl. Human-Machine Teaming

Mission Planning and C2

Human-Systems Integration (HSI) incl. Model-Based HSI

Human Modeling & Simulation

User Experience Research & Design

Cognitive Psychology

Mission Performance, Workload, & Situational Awareness

Human Error & Safety

Operations Facility Design

Team & Org Effectiveness

Reduce Cognitive Load to Maximize Mission Success

Military systems with advanced technologies often have more capability and functionality than users can extract. This leads to extremely capable systems that don't live up to their potential in practice. Human engineering is the key that unlocks this value, a force multiplier for system design and development.

System Performance = Technology Performance x Human Performance

The experts at Monterey Technologies, Inc. (MTI) specialize in holistic approaches to human engineering, software development, and systems engineering for complex, mission-critical systems. Our approach optimizes total system performance, reduces total ownership costs, and ensures mission effectiveness across the system lifecycle.

Serving the Federal Government Since 1984

With a Top Secret facility clearance, DCAA-approved accounting, and expertise in DoD standards, practices, and policies, MTI is trusted and reliable teammate to government agencies and prime contractors. We're steeped in history yet remain on the forefront of modern digital engineering practices, Agile DevSecOps, MBSE, and human-centered M&S.

Small Business in all NAICS Codes

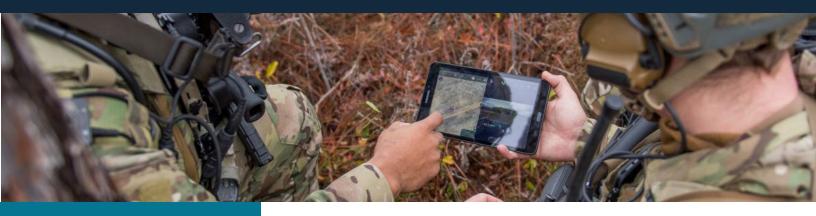|	
541330 Engineering Services	541511 Custom Programming
541690 Technical Consulting	541512 Computer System Design
541715 Social Science R&D	541715 Engineering R&D

KEY PROJECTS

USSF / SciTec – MDPAP
USN & USAF – NOMS/JOMS
USAF / Tapestry – JMPS WPS
USAF – WPS SBIR
USN – LCAC Mission Planner
USA / BAE – OMFV
USAF / NGC – EPS-CAPS
RAAF (Aus) – E-7A Wedgetail
DOT FRA – UCD-Rail

CONTRACT VEHICLES

NASA VLTD & RVLTD
FAA / CS SETIS
GSA MAS

POINT OF CONTACT

Gary Loberg
Director, Business Development
globerg@mti-inc.com
435-352-4257

MTI's User-Centered Engineering Approach

Monterey Technologies, Inc. (MTI) specializes in agile, user-centered systems engineering to maximize mission success. Key tenets of this approach include:

- Considering the needs of all stakeholders and fully understanding the problem space
- Experimenting with innovative solutions that take advantage of state-of-the-art technological capabilities and human factors research through rapid prototyping, learning, and adapting quickly
- Emphasizing delivering value iteratively and often; minimizing non-value-added effort
- Empowering collaborative, cross-functional teams with shared decision-making and problem-solving
- Incorporating of technical and non-technical solutions for a total system approach – crafting impactful design solutions to meet stakeholder and business needs across the lifecycle
- Continuous learning about stakeholders, problems, and solutions, applying knowledge to strategically shape solution roadmaps to deliver long-term and short-term value

Our holistic approach spans the system development lifecycle from concept creation to solution validation. It relies on proven practices from across DoD and commercial industry to uncover stakeholder needs, deliver highly usable solutions, and validate mission effectiveness iteratively and often. We incorporate state of the art digital engineering approaches including modeling integrated human-system performance, reducing risk and enhancing design.