

NASA Ames CCA Capabilities Brief

Monterey Technologies, Inc.

5 Minutes/5 Slides



Size of Company: Small Business

Company Categories: Small Business Veteran Owned (self certified)

NAICS Code/s:

541330 ENGINEERING SERVICES

541512 COMPUTER SYSTEMS DESIGN SERVICES

541611 ADMINISTRATIVE MANAGEMENT AND GENERAL MANAGEMENT CONSULTING SERVICES

541614 PROCESS, PHYSICAL DISTRIBUTION, AND LOGISTICS CONSULTING SERVICES

541690 OTHER SCIENTIFIC AND TECHNICAL CONSULTING SERVICES

541715 RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)

541720 RESEARCH AND DEVELOPMENT IN THE SOCIAL SCIENCES AND HUMANITIES

541910 MARKETING RESEARCH AND PUBLIC OPINION POLLING

611512 FLIGHT TRAINING

Monterey Technologies, Inc.



Core Capabilities

- **Human Factors Engineering/Human-Systems Integration**
 - Mission Analysis/ Task Analysis/Workload & Workflow Analysis
 - Training Needs Analysis
 - Functional Requirements Development
 - CONOPS / Crew Concept / Crew Effectiveness
 - MIL-STD 1472F tailoring and compliance analysis
 - Usability testing and evaluation
- **Human Engineering Program Plan (HEPP) development**
- **Human-Machine Interface (HMI) Design**
- **Modeling & Simulation (M&S)**
- **MBSE (Model-Based System Engineering)**
- **Mission Planning (Echelon III / IV / V)**
- **Digital Training**
- **Complex System test program design/execution**



Monterey Technologies, Inc.



Core Capabilities

Human-Systems Integration (HSI) analysis

- Staffing level analysis
- Concept of Operation (CONOPS) development
- Crew Concept Development
- Human Engineering Program Plan (HEPP) development

Human Factors Engineering (HFE)

- Mission Analysis
- Task Analysis
- Functional Requirements Analysis
- Workload / Workflow Analysis
- Training Needs Assessment
- Performance Measurements (MOP's & MOE's)
- System of Systems Testing
- Business Process Analysis

Human-Machine interface (HMI) Design

- Workstation UI design
- Information Display design
- Crew Station Design
- Cockpit layout design
- Workspace Design
- Website Analysis / Heuristic Evaluation



Example of Current Contracts/Past Performance



Prime-contracts

NASA Ames: VLTD

NASA Ames: RVLTD

NAVAIR PMA-281 IDIQ MAC

NAVAIR PMA-281: BOA TO 4

Air Force: SBIR Phase II

GSA Schedule 70

GD: Mission Planning

RAAF: Wedgetail

FRA: BAA

Sub-contracts

BAE: OMFV (Army)

Boeing: WPS (Air Force)

NGC: NGNMPS (Navy)

NAVAIR PMA-281 StrikeArt (Air Force)

SciTec: MDPAP (Air Force)

SH: ISMAPT2 (Navy)

SH: LCAC II(Navy)

SH: TRACK1(Navy)

L&A: Causal Analysis/Safety Analysis Los Alamos National Labs (LANL)

Monterey Technologies, Inc.



MTI's Clients

– Military / Government

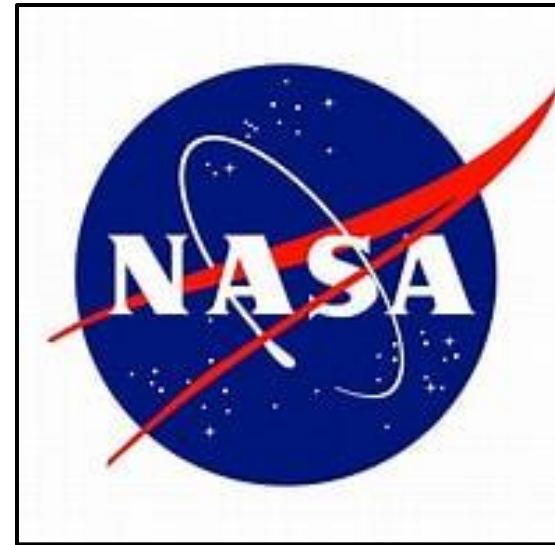
- U.S. Navy
- U.S. Army
- U.S. Air Force
- NASA
- U.S. Coast Guard
- DARPA
- Royal Australian Air Force
- FAA
- FRA

– Prime Contractors

- Northrop Grumman
- General Dynamics-MS
- Progeny
- Leidos
- Boeing
- Lockheed Martin
- BAE Systems
- SAIC
- Raytheon
- General Atomics
- SciTec
- Vencore
- Kyocera
- Exelon Power
- Jacobs Engineering
- Parsons Engineering
- Sev1Tec
- Intel
- AMGEN
- St. Jude Medical

NASA VLTD & RVLTD Contract Opportunities

- NASA Ames Modeling & Simulation/Systems Testing & Evaluation/R&D
- Aeronautical vertical lift technology development - engineering, R&D
- Vertical lift aeromechanics modeling and analysis
- Simulation facility hardware/software development - experimental research and feasibility
- Human-in-the-loop simulation research and development
- Test and evaluation, and training;
- Aircraft performance, handling qualities, and flight control systems analysis and evaluation
- Cockpit display analysis & design
- Mission effectiveness analysis – system of systems testing
- Program analysis and management
- Air traffic management analysis - assessment of new operating procedures and interfaces integrating vertical lift aircraft in an efficient, productive, and safe manner.
- Health Usage Monitoring Systems (HUMS) Technology Assessments and Demonstrations
- Engineering Analyses of Advanced Concepts
- Advanced Cockpit Crew Station Research



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