

MTI's Human-centered analysis and design services

- Human Factors Engineering
- Human-Systems Integration (HSI)
- Usability Testing
- Functional Requirements Analysis
- Mission Analysis
- Task & Function Analysis
- Workload Analysis
- User Interface design
- Workstation Design
- UAS/JAV Groundstation Design
- Avionics & Vetrionics user interface design
- Training System Analysis and design
- User Manual Development
- MIL-STD-1472 Compliance
- MIL-STD-882 System Safety Assessment



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Our processes get results

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*Human Factors
Engineering Design
services for the 21st
Century*

*Helping companies and
Government
organizations make
products intuitive, safe
and easier to use*

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Human-Centered Analysis and Design

Monterey Technologies, Inc. (MTI) is a privately held, certified veteran-owned small business. We perform human factors research & development and provide user-oriented interface design services. Since its incorporation in 1984, MTI has provided high-quality human factors-related technical services to many foreign and domestic government agencies and a large number of corporate clients. Company headquarters are in Monterey, CA, with regional locations in Silicon Valley, NASA Ames, Seattle, WA, Denver, CO, and Williamstown, NSW, Australia.

If you have heard such terms as usability, user-centered design, ergonomic, and user-friendly, you already know something about our business.

Human factors is a discipline dedicated to minimizing the potential for human error, increasing user acceptance, and ensuring that systems, processes, and products meet user needs. In short, it uses a common sense approach to offer a fresh perspective.

What is Human Factors?

Human Factors is the study of humans and their interaction with products, environments, equipment and technology. The focus of human factors is on the design and evaluation of human-machine systems or human organizations with an emphasis on human capabilities and limitations as they impact system operation.

What does human factors accomplish?

The goal of human factors is to first identify the specific functionality that users need, and to design to that need, while making the system intuitive and easy to use. Human factors aims at optimizing system performance, and maximizing human safety and operational effectiveness. This includes balancing cost and design constraints. Human factors specialists seek to understand how the human can support the system goals and how the system should support human needs. Human factors analysis also identifies problem areas. Through analysis, improvements, such as hardware or software redesign, can be defined and specific recommendations for design improvement can be made. Recommendations aim at resolving human performance issues, and may also involve the restructuring of task assignments and workflow to increase efficiency.

Human Factors Specialists are trained to:

- Know the user population
- Understand end user requirements
- Design the product to fit the user's needs
- Optimize the allocation of tasks between user and machine
- Recognize and work objectively with population stereotypes
- Design from the user's perspective, for flexibility
- Reduce training time and error
- Design for the entire user population (instead of the average)
- Consider cost when proposing design alternatives
- Perform system safety assessments

Our processes get results:

- **Improved product design**
- **Improved employee productivity**
- **Reduced operating costs**
- **Reduced training time**
- **Improved business processes**
- **Improved technical processes**
- **Intuitive, easy to use products**

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