

# The MITRE Corporation

## DOD C3I FFRDC

# MITRE

*The DOD C3I FFRDC provides systems engineering and integration support to our government sponsors to help achieve the vision of an integrated CAISR capability that supports joint U.S. and multinational operations.*

**F**or nearly 50 years, MITRE has worked in strategic partnership with the government to address issues of critical national importance. Today, MITRE manages three Federally Funded Research and Development Centers. FFRDCs are organized to offer technical depth and breadth with a high degree of objectivity, providing the government with creative and cost-effective solutions to problems of considerable complexity.

The Department of Defense Command, Control, Communications, and Intelligence (DOD C3I) FFRDC is MITRE's oldest and largest FFRDC. Established in 1958 to provide technical assistance to the U.S. Air Force, the DOD C3I FFRDC today supports a broad and diverse set of clients across the DOD and the Intelligence Community (IC).

### Vision for Tomorrow

Over the years, MITRE's highly skilled workforce has played a critical role in developing some of the most sophisticated command and control systems in the world. From support of early air defense to today's sophisticated military communication systems, MITRE researchers have helped to transform government operations and services using the power of digital technology.

Just as our programs have moved from the era of analog computers to digital, Web-enhanced technology, the challenges our sponsors now face are vastly different from those of 50 years ago. The world has moved from a Cold War posture, characterized by well-defined adversaries, to a climate of asymmetric threats. Meeting these new demands requires advancements in both technology and operational concepts.

MITRE's work contributes to achieving the *National Military Strategy's* three key priorities—winning the war on terrorism, enhancing our ability to fight as a joint force, and transforming the Armed Forces.



MITRE works in strategic partnerships with its clients, sharing accountability for mission success, as we work to solve issues of critical national importance.



## A Commitment to Meeting Our Sponsors' Needs

*MITRE has the requisite competencies to meet our sponsors' evolving needs, from systems engineering and information technology, to network security, communications, signal processing, risk assessment, and intelligence analysis. Within our technical staff:*

- *More than 60 percent have advanced degrees*
- *Nearly 46 percent are in technical centers*
- *Almost 25 percent contribute to our technology research program*
- *More than 65 percent of new hires have 10 or more years of experience*



A key to winning the war on terrorism is ensuring the security of our homeland. To defend our nation, the IC is working to identify possible precursors to terrorist activity. By combining MITRE's knowledge of security technologies with our expertise in systems and enterprise engineering, we are helping the IC find new ways to collect and analyze information across organizational lines, effectively balancing the "need to share" with the "need to protect."

Recognizing that terrorism is a global problem, our military is committed to working with our allies to protect common interests. MITRE facilitates coalition operations by developing complementary solutions to enhance collaboration. For instance, MITRE's researchers have found a way to combine secure communications with near-simultaneous translation in several languages. The result is a breakthrough technology for instant messaging that allows trusted communication among multiple allies while overcoming language barriers.

Similarly, we are working to enhance our military's ability to fight as a joint force by improving its ability to collect, process, and share information in an operational environment. One example is a machine-to-machine prototype developed by MITRE that uses a standards-based software interface to let diverse systems "talk" to each other. This type of technology will help the military overcome longstanding obstacles to system interoperability and achieve full integration of digital capabilities—a concept known as net-centric operations.

In addition, MITRE is working to transform the Armed Forces by fielding new capabilities that enhance joint operations. One example is Blue Force Tracking, which reduces friendly fire incidents by providing our warfighters with a common situational picture of the battle space using a network of satellites, portable computers, and wireless connections. MITRE has contributed to the development of BFT technology and demonstrated how this vital information can be made available throughout the battle theater and beyond, using Web-based technology.

To advance the military's transformation into a 21st century fighting force, MITRE is helping to deliver an executable architecture for the Global Information Grid, the overarching technology infrastructure that will facilitate net-centric operations across the Services. This transformation of our Armed Forces will ensure that we emerge from the struggle against terrorism with a joint force fully prepared to meet new global challenges.

For the past 50 years, MITRE has worked in partnership with our clients, applying our objective, in-depth technical expertise to address problems of critical national importance. It is our commitment to the public interest, and a mission we will continue to carry out long into the future.

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