

Enhanced Mutual Collaborators

condensed list...

■ International: PAs, TTCP, NATO, EOARD, AOARD ...



■ Other Dod Agencies: DARPA, MDA, DTRA, Cyber COI, C4I COI ...



■ Others: FFRDCs, NASA, DHS, NIST, DOE LABS, MITRE ...



■ Joint Community: STRATCOM, TRANSCOM, NORTHCOM, ARMY, NAVY, MARINES ...



■ Usaf: AFMC, AFSOC, AFSPC, ANG, 24th AF, 25th AF, AMC, ACC, AFLCMC, SMC, AFGSC ...



■ Intel Community: DIA, CIA, IARPA, NSA, NRO, NGA, NASIC ...



■ Industry: 351 contractual partners, IR&D, 58 CRADAs, SBIR ...

■ Academia: Information Institute, Partnerships, 123 EPAs, Visiting Faculty Research Program, STEM, Center of Excellence (COEs) Machine Learning (ML) ...



AFRL Information Directorate

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AFRL Information Directorate Customer Contact Information

■ Contract Opportunities

<https://beta.sam.gov/>

- ① Select "Contract Opportunities" from drop down menu.
- ② Enter RIK.
- ③ Click Search.

AFRL

Air Force Research
Laboratory



Information Directorate

The Information Directorate is the Air Force's and nation's premier research organization for Command, Control, Communications, Computers and Intelligence (C4I) and Cyber technologies. The directorate explores, prototypes and demonstrates high-impact, affordable and game-changing technologies. These technologies transform data into information and subsequently knowledge for decision makers to command and control forces. This knowledge gives our air, space and cyberspace forces the competitive advantage needed to protect and defend the nation.

■ AFRL/RI Organization Directory

■ Engagements: Enhanced Mutual Collaborations

■ AFRL/RI Core Technical Competencies Focused in Four Major Technical Areas of Research

AFRL RI

Air Force Research Laboratory Information Directorate

■ Mission of the AFRL Information Directorate

To explore, prototype and demonstrate high-impact, game changing technologies that enable the Air Force and Nation to maintain its superior technical advantage.



■ AFRL Information Directorate

Acting Director.....	Dr. Michael Hayduk
Deputy Director.....	Dr. Michael Hayduk
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Deputy Chief Engineer.....	Lt Col Matthew Moyer
Senior Scientist, Information Assurance.....	Dr. Kamal Jabbour
Senior Scientist, Command & Control.....	Dr. Mark Linderman
Senior Scientist, Processing & Exploitation.....	Dr. Qing Wu
Director of Staff.....	Lt Col Thomas Kramer
Commander's Support Staff.....	Dr. John MacGaffick
Chief of Protocol.....	Mr. Jim Ray
DAG/RI Visits.....	Lt Matthew Walls & Lt Zuzanna Rybicka

■ Mission Divisions

Information Intelligence Systems & Analysis (RIE).....	Col Richard Kieffer
Information Exploitation & Operations (RIG).....	Mr. Scott Shyne
Information Systems (RIS).....	Ms. Julie Brichacek
Computing & Communications (RIT).....	Mr. Gregory Zagar
Special Programs (RIZ).....	Mr. Brent Holmes

■ Support Divisions

Comptroller (RIF).....	Mr. Michael Halloran
Strategic Planning & Integration (RIB).....	Mr. John Grieco
Contracting (RIK).....	Mr. Timothy Anderson
Integration & Operations (RIO).....	Mr. Gabriel Sborglia
Judge Advocate (RIJ).....	Maj Brant Whipple

Core Technical Competencies (CTCs) Focused in Four Major Technical Areas of Research

■ Autonomy, Command & Control and Decision Support

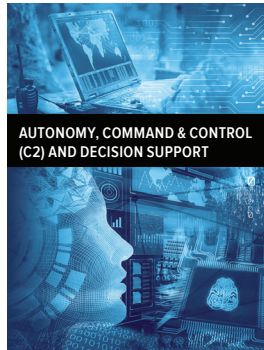
Mastering complexity of multi-domain command & control.

Vision: Mastering and imposing complexity to command & control (C2) future multi-domain operations in an evolving battlespace with speed and scale.

Mission: Deliver revolutionary, trusted, affordable information technologies for agile, resilient and distributed Air Force command & control and autonomous systems.

Sub CTCs: Complex Effects Analysis • Complex Adaptive Systems • Machine Intelligence

Goals: Master complexity through development of adaptive C2 systems-of-systems and services. Control, impose and synchronize complex multi-domain effects chains. Harness machine intelligence to increase C2 speed and scale of operations. Realize large-scale multi-agent systems for autonomous planning, tasking and execution.



■ Connectivity and Dissemination

Putting the right information into the right hands at the right time.

Vision: Seamless, resilient networked communications fabric across the command and control intelligence surveillance reconnaissance (C2ISR) enterprise, assuring delivery of timely, reliable and actionable information to warfighters and systems.

Mission: Provide agile and secure mission-responsive communications and information exchange globally.

Sub CTCs: Communication Links and Networks • Secure Multi-Domain Architectures • Mission-Responsive Information Exchange

Goals: Agile and secure communications and networks. Agnostic connectivity. Autonomous link discovery, creation and utilization. Dissemination of information at need, securely.



■ Cyber Science and Technology

Leveraging and shaping the cyber domain to the nation's advantage.

Vision: An Air Force equipped with technologies that enable our freedom to operate in cyberspace while denying the adversary the same.

Mission: Deliver the science and technology necessary to ensure cyberspace superiority and support the conduct of full-spectrum, multi-domain, integrated cyberspace operations.

Sub CTCs: Foundations of Trust • Network Exploitation • Cyber Resiliency • Integrated Cyber Operations

Goals: Secure, composable, risk-based compute options. Cyber operations integrated and on par with air & space. Ability to conduct cyber operations agnostic to medium and geography.



■ Processing and Exploitation

Exploiting computing and algorithms to transform big data into information.

Vision: Innovator of technologies that process and exploit data in near real time, analyze massive collections over time, and employ continuous learning to deliver asymmetric decision speed to the Air Force and Intelligence Community.

Mission: Deliver fast sensemaking for situational awareness and adversarial insight for the AF, DoD, and Intelligence Community.

Sub CTCs: Machine Analytic Characterization • Machine Analytic Comprehension and Projection • Extreme Computing

Goals: Multi-INT correlation and fusion of massive amounts of intelligence, surveillance, and reconnaissance (ISR) and publicly available data. Exploit targets in denied areas. Adversarial and secure machine learning. Dynamic, hybrid computing advancing neuromorphic, nanotech, and quantum systems to efficiently process ISR information.

