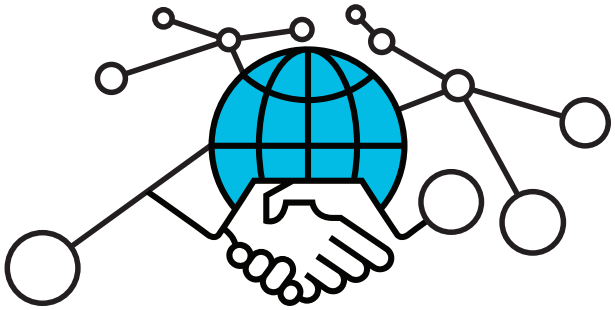

Enhanced Mutual Collaborators

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/USSF:** AFMC, AFSOC, ANG, 16th AF, AMC, ACC, AFLCMC, SMC, AFGSC •••
- **Intel Community:** DIA, CIA, IARPA, NSA, NRO, NGA, NASIC •••
- **Industry:** 223 contractual partners, IR&D, 64 CRADAs, SBIR •••
- **Academia:** Information Institute, Partnerships, 131 EPAs, Visiting Faculty Research Program, STEM, Center of Excellence (COEs) Machine Learning (ML) •••

JULY 2021

AFRL

Air Force Research Laboratory

AFRL Information Directorate

Strategic Planning and Integration Division
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Rome, NY 13441-4514

315.330.4371
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AFResearchLab.com

RI

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.

RI

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

as of July 2021

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

Director/Commander Det 4	Col Fred Garcia II
Deputy Director	Dr. Michael Hayduk
Deputy Commander/Chief of Staff	Lt Col Thomas Kramer
Associate Director	Dr. Bryant Wysocki
Chief Scientist	Dr. Paul Antonik
Principal Advisor	Dr. Nathaniel Gemelli
AF Technical Advisor, C4I & Cyber Systems	Dr. Bryant Wysocki
Chief Engineer	Ms. Karen Roth
Deputy Chief Engineer	Lt Col Matthew Moye
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 Seth Bacon
First Sergeant	MSgt Christopher Budhu

Mission Divisions

Intelligence Systems (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. Gary Tarantino
Strategic Planning & Integration (RIB)	Mr. John Grieco
Contracting (RIK)	Mr. Robert Stadelmaier
Integration & Operations (RIO)	Mr. Gabriel Sbarglia
Judge Advocate (RIJ)	Capt Riley Graber (acting)
Det4/SE	Ms. Wendy Medley

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

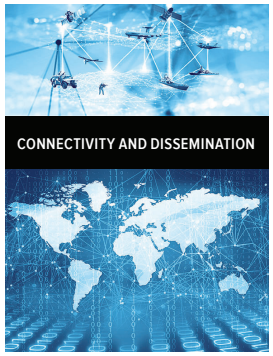
Autonomy, Command & Control and Decision Support

Vision: Mastering & imposing complexity to Command & Control future joint all domain operations in an evolving battlespace with speed and scale.

Mission: Deliver revolutionary, trusted, affordable information technologies for agile, resilient, & distributed AF command and control & intelligent systems.

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

Goals: Research, develop, and deliver next generation intelligent C2 systems to enable the command & control of future multi-domain operations in an evolving and contested battlespace at speed and scale. The key to achieving this vision is the ability to master complexity while executing multi-domain operations.



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

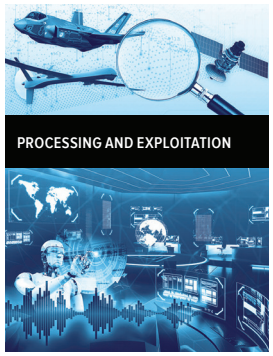
Leveraging and shaping the cyber domain to the nation's advantage.

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: Cyber Assurance • Electromagnetic Cyber Convergence • Cyber Warfighting

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.