

# ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFING TO INDUSTRY

Communications-Electronics Research, Development,  
and Engineering Center (CERDEC)

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Associate Director  
4 November 2015

*The forecast data is for planning purposes, does not represent a pre-solicitation synopsis, does not constitute an invitation for bid or request for proposal, and is not a commitment by the government to purchase the desired products and services*



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# COMMUNICATIONS-ELECTRONICS RDEC

## Mission

The **Communication-Electronics Research, Development and Engineering Center (CERDEC)** is the Army's principal Applied Research, Advanced Technology Development and Engineering Center charged to develop and integrate Command, Control, Communications, Computers, Intelligence, Surveillance, Reconnaissance (C4ISR) Technologies that enable Information and Cyber Dominance and Decisive Lethality for the Networked Warfighter.

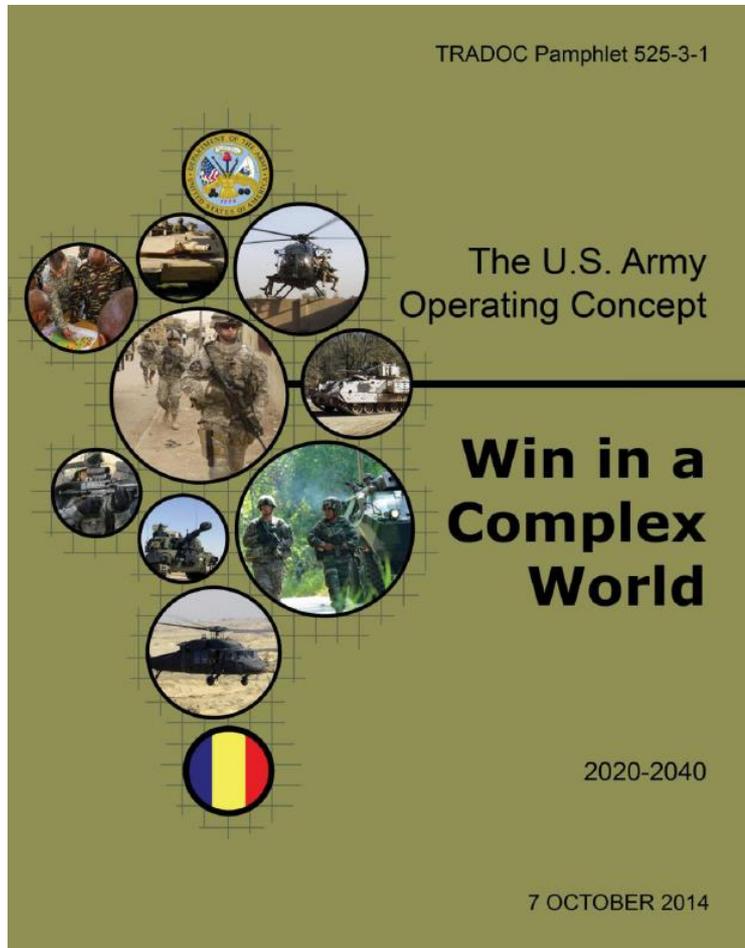
## Vision

An Army Who Derives Decisive Advantage From It's Superior Knowledge of a Complex World



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# ARMY OPERATING CONCEPT



## *Army Warfighting Challenges:*

1. **Develop Situational Understanding**
2. **Shape the Security Environment**
3. **Provide Security Force Assistance**
4. **Adapt the Institutional Army**
5. **Counter WMD**
6. **Homeland Operations**
7. **Conduct Cyberspace and Cyber Electromagnetic Operations and Maintain Communications**
8. **Enhance Training**
9. **Improve Soldier, Leader and Team Performance**
10. **Develop Agile and Adaptive Leaders**
11. **Conduct Air-Ground Reconnaissance**
12. **Conduct Entry Operations**
13. **Conduct Wider Area Security**
14. **Ensure Interoperability and Operate in JIIM Environment**
15. **Conduct Combined Arms Maneuver**
16. **Set the Theater, Sustain Operations, and Maintain Freedom of Movement**
17. **Deliver Offensive Fires**
18. **Deliver Defensive Fires**
19. **Exercise Mission Command**
20. **Develop Capable Formations**

# TRADOC MID-TERM TECHNOLOGY IMPERATIVES

● Primary Linkage

● Other Linkage

	Grow Adaptive Army Leaders, Optimize Human Performance	Maximize Demand Reduction and Improve Reliability	Maintain Overmatch	Conduct Expeditionary Maneuver	Continuously Upgrade, Protect and Simplify the Network	Medical Sciences
C3I - Communications			●	●	●	●
C3I – Mission Command	●	●	●	●	●	
C3I - Sensors			●	●	●	
C3I – Intelligence / EW			●	●	●	
C3I – Cross Cutting			●	●	●	

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# TRADOC 8 FAR-TERM TECHNOLOGY IMPERATIVES

 Primary Linkage  
 Other Linkage

	Mobile Protected Platforms	Improved Lethality and Effects	Logistics Optimization	Aviation	Cyber Electromagnetic Activities	Accelerated Data to Decision	Human Performance Enhancement	Robotic and Autonomous Systems
C3I - Communications		●		●	●	●		●
C3I – Mission Command	●	●	●		●	●	●	●
C3I - Sensors	●	●		●		●	●	●
C3I – Intelligence / EW	●	●		●	●	●		
C3I – Cross Cutting					●	●		●

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# AWC ALIGNMENT

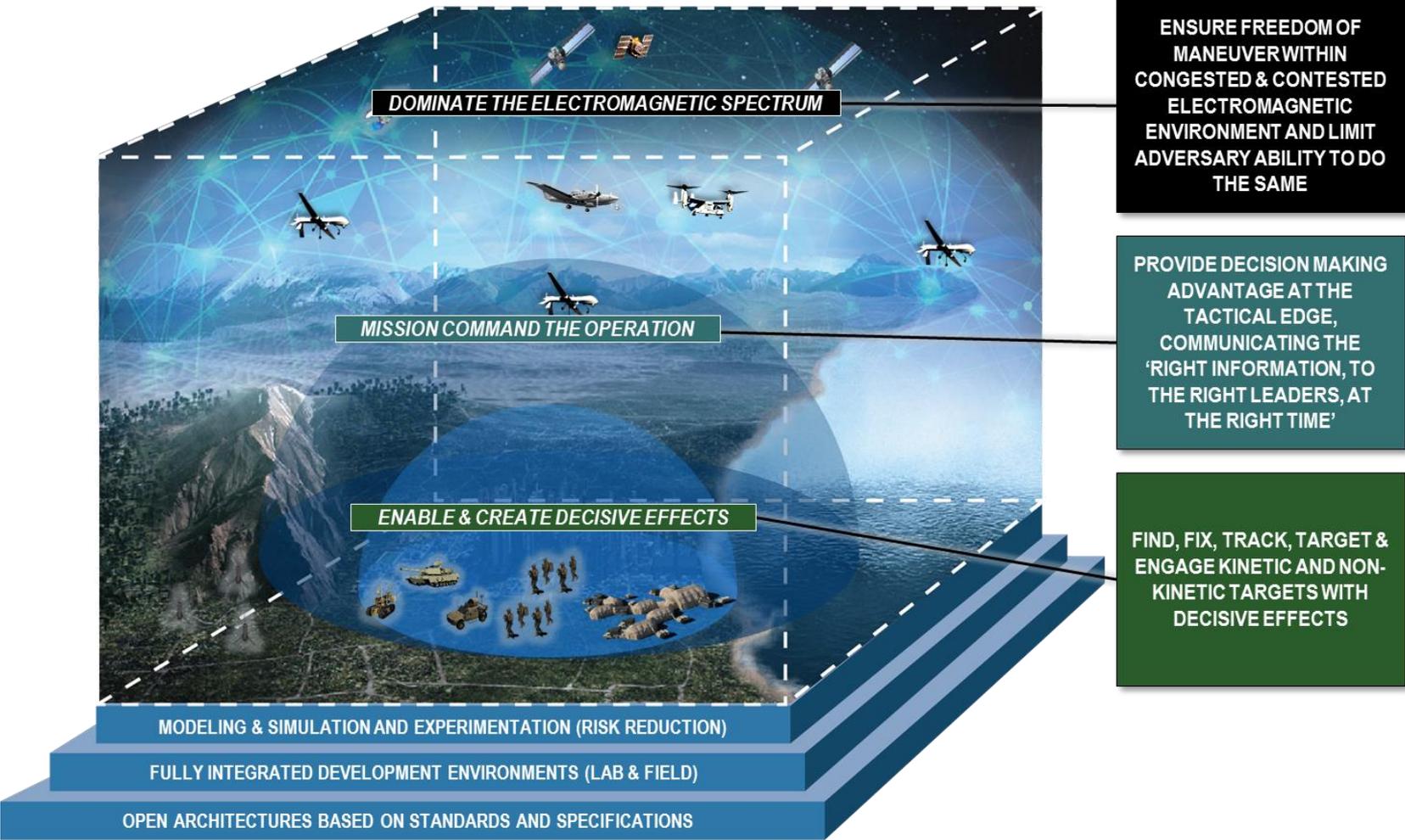
 Primary Linkage  
 Other Linkage

	1: Develop Situational Understanding	2: Shape the Security Environment	3: Provide Security Force Assistance	4: Adapt the Institutional Army	5: Counter WMD	6: Homeland Operations	7: Conduct Space and Cyber Electromagnetic Operations	8: Enhance Training	9: Improve Soldier Leader and Team Performance	10: Develop Leaders	11: Conduct Air-Ground Reconnaissance	12: Conduct Entry Operations	13: Conduct Wide Area Security	14: Ensure Interoperability and Operate in JIIM Environment	15: Conduct Combined Arms Maneuver	16: Set the Theater Sustain Operations and Maintain Freedom of Movement	17: Integrate Fires	18: Deliver Fires	19: Exercise Mission Command	20: Develop Capable Formations
C3I - Communications	●	●				●	●	●	●			●		●	●	●	●	●	●	
C3I – Mission Command	●	●				●	●	●	●		●	●		●	●	●	●	●	●	
C3I - Sensors	●	●	●		●	●	●				●	●	●		●	●	●	●		
C3I – Intelligence/EW	●	●				●	●				●		●			●				
C3I – Cross Cutting	●					●	●					●			●	●			●	

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# FOCUSING ON THE CERDEC MISSION



# PRIMARY CAPABILITIES

- **Mission Command** - Research, develop and engineer advanced computing platforms, software architectures and visualization
- **Tactical and Deployed Power** - Advance the generation, storage, management and distribution of Soldier and mobile power and energy as required for training, moving and sustaining military forces and weapons platforms for military operations
- **Tactical Cyberspace Operations** - Provide capabilities that protect the network and enable capabilities that deny or manipulate information and infrastructure for intelligence protection, collection and other efforts
- **Electronic Warfare** - Extend capabilities to dynamically sense, protect and control the electromagnetic spectrum and deny its use by adversaries
- **Intelligence, Surveillance, Reconnaissance and Targeting** - Provide advanced collection capabilities that adapt to changes in the operational environment and strategically narrow precision and focus based on signatures of interest



## PRIMARY CAPABILITIES (CONTINUED)

- **Intelligence Analysis, Exploitation & Dissemination** - Enable systematic processes to discover, select, organize, distill, share, develop and use information to provide a holistic understanding of the enemy and the enemy's environment while conducting full-spectrum operations
- **Countermine/Counter-IED** - Provide dismounted forces and ground and air platforms with the ability to detect, identify and mitigate IEDs, landmines, minefields and other explosive hazards and obstacles
- **Tactical and Strategic Networks** - Enable networks and networking technologies that transport, secure, manage, filter, and analyze data from numerous Army, Joint and Coalition intelligence and information sources
- **C4ISR Enterprise Support** - Provide acquisition and sustainment support, program leadership, specialty engineering expertise, integration and testing services, and certification and accreditation of systems for Army C4ISR organizations and systems



# ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFING TO INDUSTRY

Communications-Electronics Research, Development,  
and Engineering Center (CERDEC)

Command, Power, and Integration Directorate

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## PROGRAM OVERVIEW

### **Mission Command (MC)– Data to Decisions and Agile and Expeditionary Mission Command**

- Army MC investments have traditionally focused on enabling staff functions and optimizing MC within computing environments (e.g. dismounted, mounted, and Command Post); CP&I is well postured to shape desired future solutions of vertical MC integration (one solution across environments) and Commander-centric solutions. Specific focus is on architectures to ensure data/information/knowledge gets to decision makers when they need it; simplifying/unifying Commanders' Mission Command capabilities; and enabling increased mobility and removing complexity from both fixed and mobile Command Posts



# MISSION COMMAND

	High Level Required Capability	Capability Gaps	Specific Need	S&T Efforts
NEAR TERM (18-22)	Agile and Expeditionary Command Posts	<ul style="list-style-type: none"> <li>Improved Command Posts (MC COE Force 2025 Gap)</li> <li>Conduct Entry Operations and Develop Capable Formations (AWFC)</li> <li>Mission Command on the Move (TRADOC Force 2025)</li> </ul>	Technologies that provide simplified, flexible configurations for improved CP mobility and increased commonality	Expeditionary Command Post Capabilities
				CP Enabling Infrastructure
				Integrated MC Using Emerging S&T
	Fully interoperable, Simple Mission Command Systems	<ul style="list-style-type: none"> <li>Fully interoperable, Simple Mission Command Systems (MC COE Force 2025)</li> <li>Sustain and Improve Cognitive Vigilance (TRADOC Force 2025)</li> <li>Exercise Mission Command, and Develop Situational Understanding (AWFC)</li> </ul>	Provide technologies and standards that enables secure & interoperable applications across a variety of computing environments (CEs).	Tactical Computing Environment. (ARL & CERDEC)
				Adaptable Info Ingestion Arch
			Technological aids to support the commander in achieving situational understanding, making decisions, disseminating directives, and following directives through execution	Commander's Virtual Staff
				Commander's Tools
	Autonomous and Semi-Autonomous Systems and Operations, Manned/Unmanned Teaming	<ul style="list-style-type: none"> <li>Maximize demand reduction and improve reliability via use of autonomous and semi-autonomous systems and operation/manned Unmanned teaming. (TRADOC Force 2025)</li> <li>Unburden the Soldier and Robotics/Autonomy (MCOE Force 2025)</li> </ul>	Technologies that enable autonomous systems to complement the maneuver plan, allow leaders to interact with autonomous systems as naturally as possible, and have autonomous systems function as a member of the combined arms team.	Force Synchronization Endeavor
				MCAT and MCATE
Autonomous Systems Research (ARL)				
				Collaboration of Autonomous Systems with Humans (CASH)



## PROGRAM OVERVIEW

### Assured Positioning, Navigation & Timing (PNT)

- Assured PNT is a top priority within DoD and the Army. 6.2, 6.3, and 6.4 funding, as well as customer funding are all expected to increase. CP&I has an established core competency and strategic partnerships, and is addressing dynamic threats and growing demands for solutions to enable dismounted Soldiers and mounted platform operation in GPS denied environments. Specific Focus areas include: Pseudolites, Anti-Jam Antennas, Dismounted PNT, and Mounted PNT



# POSITION, NAVIGATION AND TIMING

	High Level Required Capability	Capability Gaps	Specific Need	S&T Efforts
NEAR TERM (18-22)	Maintain Overmatch- PNT	PNT Access using M-Code Mounted/Dismounted User Equipment	M-Code Capable mounted GB-GRAM form factor card (PL, Mounted, Dismounted)	No Near Term Requirement (Currently being done by USAF RDT&E)
			Reduced form factor for M-Code Dismounted	
		PNT Access using SAASM Mounted/Dismounted User Equipment	Wireless connectivity to EUD for Dismount Mini inertial sensors	
	Maintain Overmatch- PNT	PNT Integrity using Pseudolites	Pseudolite Command & Control	Pseudolite Navigation
			Pseudolite Mission Planning	
			Pseudolite Celestial Navigator Integration	Blue Force Electronic Attack
		PNT Integrity	Anti Jam Antenna Mounted Hub	Anti Jam Antenna Mounted Hub
	Maintain Overmatch - PNT	Precision Clock	SWaP-C for Multi-Sensor PNT	CSAC/GPS Integration
		Position and Nav. Sensors		WINS
				Sensor Fusion
RF Ranging				
Vision Navigation				



## PROGRAM OVERVIEW

### Operational Energy - Energy Informed Operations & Tactical Power Generation

- Energy demands on the battlefield have been continuously increasing as greater tactical capabilities are being deployed. Increased demand for power continues to outpace advances in supply technologies. CP&I continues to pursue advances in creating more efficient and energy dense power sources while shifting increasing emphasis on investments in power distribution and management research, in line with the OSD Operational Energy Office strategy, DA S&T priorities, and validated high priority operational needs



# OPERATIONAL ENERGY

	High Level Required Capability	Capability Gaps	Specific Need	S&T Efforts
NEAR TERM (18-22)	Use power and energy resources efficiently	Army P&E Strategy WP – Grand Challenges 1, 2, and 3 Army Warfighting Challenge 16 CASCOM Technology and Capability Objectives for Force 2025 and Beyond	Significantly reduce requirements to transport fuel in an expeditionary environment. Maintain freedom of movement Provide intelligent power management and distribution	Distributed Asset Power Management Semi-Autonomous Power Management Ad hoc, In-Situ Power Management Wireless Power
	Understand the impact of energy on mission	CASCOM Technology and Capability Objectives for Force 2025 and Beyond Operational Energy ICD	Give Soldiers and leaders a means to manage – measure, monitor and control energy status, usage and system performance; prioritize and redistribute resources. Integrate ability to generate, collect, control and analyze energy demand and consumption with Mission Command.	Expeditionary Mission Command – Energy Informed Operations



## PROGRAM OVERVIEW

### Prototyping, Integration, and Testing (PI&T)

- Supports a variety of tri-service C4ISR systems and systems integration programs. As a Prototype Integration Facility (PIF), the PI&T Division provides engineering design, development, fabrication, installation, integration and fielding support for shelter, vehicle, aircraft, watercraft and soldier prototype C4ISR systems. The PI&T Division also executes projects where the final deliverable is an engineering design product, without subsequent fabrication and integration support and provides engineering consulting and expert support services in the area of C4ISR platform system integration. Finally, the PI&T Division provides environmental testing and engineering services designed to ensure that systems and components survive the harsh tactical environment, by evaluating and ruggedizing these items to meet intended operating and storage environments



# MISSION COMMAND OPPORTUNITY

**TITLE: Commander's Virtual Staff**

**CONTRACT TYPE: CPFF**

**ESTIMATED VALUE: Multiple Awards \$100k-\$1m**

- Topic release date 1QFY16
- Whitepapers: 2QFY16
- Request for Proposals: 2QFY16
- Forecast Award Date: 3QFY16

**CONTRACTING CONTACT: ACC-APG**

Donald Leath, (443)861- 4633, [donald.w.leath.civ@mail.mil](mailto:donald.w.leath.civ@mail.mil)

**SOLICITATION #: BAA W56KGU-15-R-0022**



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# PNT OPPORTUNITIES

## TITLE:

- Pseudolite Systems
- Vehicle Navigation System (VNS)
- Inertial Navigation
- Positioning
- Aiding Sensors for Navigation Systems
- Navigation Sensor Fusion
- Biomimetic for Navigation Purposes
- Timing for PNT Systems

## CONTRACT TYPE: CPFF

ESTIMATED VALUE: Multiple Awards; \$100k - \$1m

### Key Milestones:

- Whitepapers: 2QFY16
- Request for Proposals: 2QFY16
- Forecast Award Date: 3QFY16

CONTRACTING CONTACT: ACC-APG

Donald Leath, (443)861- 4633, [donald.w.leath.civ@mail.mil](mailto:donald.w.leath.civ@mail.mil)

SOLICITATION #: BAA W56KGU-15-R-0022



# PI&T OPPORTUNITY

**TITLE: C4ISR Systems Prototyping, Integration & Testing Support to the US Army CERDEC, CP&I, Prototyping, Integration, and Testing Division**

**CONTRACT TYPE: CPFF**

**ESTIMATED VALUE: \$200m - \$250m**

**CONTRACTING CONTACT: ACC-APG  
Donald Leath, (443)861- 4633,  
[donald.w.leath.civ@mail.mil](mailto:donald.w.leath.civ@mail.mil)**

**SOLICITATION #: W56KGU-15-R-0039**

**ESTIMATED SOLICITATION RELEASE DATE: 2QFY16**



# CERDEC CONTRACT VEHICLES

- Active Solicitations for CP&I's BAAs
  - Command And Control Applications For The Decisive Edge Command, Power & Integration (CP&I) Solicitation#: W56KGU-15-R-0022. Closing date: 16 February 2017
  - Power and Energy Soldiers for Soldier, Mobile, and Tactical Grid Applications (CP&I) Solicitation #: W56KGU-15-R-0032. Closing date: 3 November 2020

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Communications-Electronics Research, Development,  
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Intelligence and Information Warfare Directorate

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# SENSORS (I2)

	High Level Required Capability	Capability Gaps	Specific Need	S&T Efforts
NEAR TERM (18-22)	RF	<ul style="list-style-type: none"> <li>• Conduct Air-Ground Reconnaissance (AWFC #11)</li> <li>• Develop Situational Understanding (AWFC #1)</li> </ul>	Capability to conduct long-range reconnaissance and security operations in extreme environmental conditions during joint and combined arms air-ground operations in support of ground maneuver forces, limiting the ability to provide actionable information and early warning.	ISR Sensors for Small Airborne Platforms  Dismount Moving Target Indicator Foliage Penetrating Radar  Ground Based Radar  Multi-Mode Air Defense Radar Demonstration
	Sensor Integration	<ul style="list-style-type: none"> <li>• Develop Situational Understanding (AWFC #1)</li> <li>• Accelerated Data to Decisions</li> </ul>	Capability to maintain access across the intelligence enterprise to the tactical edge to exchange intelligence data  Improve Commander's situational awareness and understanding to make rapid decisions by accelerating the flow of information to the point of need	Multi-Modal Signal Processing and Fusion  EXPED STO-D - Multi-Int Architecture  Stand-Off ISR Technologies



# INTELLIGENCE AND ELECTRONIC WARFARE

	High Level Required Capability	Capability Gaps	Specific Need	S&T Efforts
NEAR TERM (18-22)	Agile Intelligence Processing Exploitation and Dissemination	Develop Situational Understanding - Army Warfighting Challenge #1	Technologies that provide distributed processing, exploitation and dissemination, plus analysis (Intel Community Cloud) enabling expeditionary intelligence and mission command	Extensible Processing, Exploitation & Dissemination STO
		Exercise Mission Command - Army Warfighting Challenge #19		Threat Trending Analytics
		Intelligence Enterprise Architecture – TRADOC Technology Imperative (present to 2025)		ARL – Content-based Information Exchange
				Digital Entity Association
	Electronic Protection for Air and Ground Vehicles against existing and emerging threats	Maintain Overmatch – Mobile Protected Precision Firepower TRADOC Technology Imperative	A suite of intelligent, interoperable, coordinated, and tailorable electronic warfare capabilities to protect air and ground platforms from existing and emerging threats in all environments	Advanced Threat Digital Receiver Enhancement
		The Combat Aviation Brigade (CAB) lacks adequate capability to protect aircraft from threat weapon systems...- TRADOC CNA 17-21 #500844		Optimization of Aircraft Survivability through Integration of Systems
				Future Holistic & Adaptive Survivability Technologies (FHAAT)
	Converged Integrated Electronic Warfare/Cyber Capabilities to understand, shape, and dominate the electro-magnetic environment on the battlefield	Conduct Space and Cyber Electromagnetic Operations & Maintain Communications Advanced Warfighting Challenge #7	A suite of integrated cyber electromagnetic technologies to gain situational understanding, operate and defend the network, attach and exploit advisory systems and protect individuals and platforms	Front End SIGINT Standardization
		Cyber Electromagnetic Activities TRADOC Technology Imperative (Far-term beyond 2025)		Army Techniques & Tactical Architecture for Converged CEMA (ATACC)
		Multi-Int Modernization		



## OPPORTUNITY

**TITLE: TIES Task Order, Cyber Offensive Operations Division Acquisition, Laboratory, and Engineering Support**

**CONTRACT TYPE: CPFF**

**ESTIMATED VALUE: \$28M**

**CONTRACTING CONTACT: ACC-APG, TBD**

**SOLICITATION #: TBD**

**ESTIMATED SOLICITATION RELEASE DATE:  
1QFY16**



## OPPORTUNITY

**TITLE: TIES Task Order, Intel Technology and Architecture Support Services (ITAS2)**

**CONTRACT TYPE: CPFF**

**ESTIMATED VALUE: \$24M**

**CONTRACTING CONTACT: ACC-APG, TBD**

**SOLICITATION #: TBD**

**ESTIMATED SOLICITATION RELEASE DATE:  
1QFY16**



# OPPORTUNITY

**TITLE: TIES Task Order, Radar Systems and Identification (RSID) Program Management**

**CONTRACT TYPE: CPFF**

**ESTIMATED VALUE: \$32M**

**CONTRACTING CONTACT: ACC-APG, KO TBD**

**SOLICITATION #: TBD**

**ESTIMATED SOLICITATION RELEASE DATE:  
1QFY16**



# OPPORTUNITY

**TITLE: TIES Task Order, Radar Systems and Identification (RSID) Research and Development**

**CONTRACT TYPE: CPFF**

**ESTIMATED VALUE: \$49M**

**CONTRACTING CONTACT: ACC-APG, KO TBD**

**SOLICITATION #: TBD**

**ESTIMATED SOLICITATION RELEASE DATE:  
1QFY16**



# ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFING TO INDUSTRY

Communications-Electronics Research, Development,  
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Night Vision And Electronic Sensors Directorate

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# CERDEC NV&ES STRATEGIC OVERVIEW

- **Next Generation Imaging Systems**
  - Current S&T Investments Seek To Improve Existing EO/IR Imaging Capabilities Thereby Improving Soldier Maneuverability, Lethality and Survivability
- **Degraded Visual Environments**
  - Current S&T Investments Seek To Take Advantage Of Spectral Phenomenology To Improve The Existing Flight Controls Systems And Handling Characteristics To Assist The Pilot In Managing Workload When Vision Or Situational Awareness Is Challenged Or Obscured
- **Integrated Sensor Architectures**
  - Current S&T Investments Seek To Shape The Army's Transition To A Cost-effective Networked Sensor Architecture Via The Sensors And Real Time Embedded CEs



# CERDEC NV&ES STRATEGIC OVERVIEW

- **EO/IR Sensor Protection**
  - Current S&T Investments Seek To Keep Army EO/IR Sensors Protected Against Emerging Broad Spectrum Laser Threats And Exploit Enemy's EO/IR Sensors For Our Benefit (Detect/Negate)
- **Detection of IEDs and Mines**
  - Current S&T Investments Seek To Research And Develop Novel Approaches To Standoff Detection Of IEDs And Mines At Tactical Speeds For Convoys And Non-engineer Vehicles For Future Applications

# SENSORS (NV)

	High Level Required Capability	Capability Gaps	Specific Need	S&T Efforts (Project / Task)
NEAR TERM (18-22)	Electro-Optical / Infrared (EO/IR) & Non-Imaging	Laser Protection (MCoE, MSCoE); Engage targets outside threat weapon ranges (MCoE), Improve Situational Awareness and vehicle protection (MCoE); Reduce sensor size: Reduce display size and quantity; Conduct Area Denial Operations-Counter Unmanned Aerial Sensor (UAS) Technologies (MSCoE); Persistent and Pervasive Obstacle/Hazard Detection (MSCoE); Conduct Area Denial Operations (MSCoE); Next Generation High Resolution 3D Data Collections (MSCoE);	Advanced Sensor Technologies; Electro-Optical Counter-Countermeasures (optical improvements); Digital Read-Out Integrated Circuits (ROICs), Hostile Fire Detection; Reduced pixel size Focal Plane Arrays (FPAs); Smaller, Multi-function Video Displays; Aided Target Detection/Recognition/Identification; Improved sensitivity sensors, Increase EO/IR Next Gen capabilities; Sub-centimeter Mapping/Detection capability; Reduced SWAP Sensors	NV Imaging STO-R - Displays and Optics for Digital NV Imaging
				Sensor Modeling and Simulation Technology
				DROICS STO-R - 3D ROIC
				Multi-Function Digital ROICs for Cooled and Uncooled FPAs
	Sensor Integration & Enablers (EO/IR)	Engage targets outside threat weapon ranges (MCoE); Engage targets outside threat weapon ranges (MCoE), Improve Situational Awareness and vehicle protection (MCoE); Automated Target Detection (MSCoE); Persistent and Pervasive Obstacle/Hazard Detection (MSCoE); Conduct Area Denial Operations (MSCoE);	Advanced Sensor Technologies; Aided Target Recognition; Integrated sensors; Digital ROICs, Hostile Fire Detection; Aided Target Detection, activity detection, and analysis; Improved sensitivity sensors, Increase EO/IR Next Gen capabilities; Reduced SWAP Sensors	IR Sensors for Asymmetric Threat Detection and Targeting
				Low Power Image and Signal Processing
				Area Denial Sensors
				Multi-Function Integrated Platform Sensor
				Sensor CE - Integrated Sensor Architecture
Counter Sensor / Sensor Protection	Laser protection (MCoE, MSCoE)	Electro-Optical Counter-Countermeasures (EOCCM)	Ground DVE Sensor Integration	
			Camouflage & Counter-Recon Tech Advanced Spectral Sensors	
			Sens Prot STO-R - Sensor OCS Reduction	
				Vulnerability Studies for Uncooled Technology



# BROAD AGENCY ANNOUNCEMENT FOR NIGHT VISION TECHNOLOGIES

This BAA solicits proposals against a broad range of night vision technologies which support the Warfighter and challenges of Asymmetric Warfare. The technologies have been divided into four (4) sections: Air Systems; Science and Technology; Ground Combat Systems; and Modeling and Simulation.

## FOCUS AREAS INCLUDE:

- **Air Systems**
  - Distributed Aperture System and Multi-Modal Sensor Fusion for Degraded Visual Environments and Wide Field of View Longwave Infrared Camera Development
- **Science and Technology**
  - Countermine Algorithm Development, Novel Countermine Sensor Development, Manufacturing Improvements for Uncooled FPAs, North Finding Technologies, Low Light Imaging Sensors, Optics and Display Technologies, Cooled FPA Research and Laser Designation, Range Finding, Markers and Pointers research
- **Ground Combat Systems**
  - Manned Vehicles, IR Search and Track, Hostile Fire Detection, Pre-Shot Counter Sensors, Commanders Sight, Degraded Visual Environment, and Individual Soldier technologies
- **Modeling and Simulation**
  - Human Perception research, Augmented Reality Sensors, Target Acquisition Modeling, Recognition of Combatants and Integrated Sensor Architecture Network and Service technologies



# OPPORTUNITY

BROAD AGENCY ANNOUNCEMENT (BAA) FOR NIGHT VISION TECHNOLOGIES

**TITLE: Broad Agency Announcement for Night Vision Technologies**

**CONTRACT TYPE: FFP, CPFF, Grants**

**ESTIMATED VALUE: Up to \$50M Per Fiscal Year**

**CONTRACTING CONTACT: Clay Socha, 703-704-0861, clay.w.socha.civ@mail.mil**

**SOLICITATION #: W909MY-14-R-D010**

**SOLICITATION RELEASE DATE: 15 August 2014  
(Amended 07 Oct 15), Closes FY19**



# DEPLOYABLE ADAPTIVE GLOBAL RESPONDER SUPPORT (DAGRS)

**DAGRS is a multiple award Indefinite Delivery/Indefinite Quantity (IDIQ) suite of contracts. The DAGRS multiple award indefinite-delivery indefinite-quantity (MA IDIQ) contract vehicle will provide research and development support to a diverse group of organizations in the following areas:**

- Technical Development and Support to include design, development, fabrication, documentation and technical support (including field service representatives) of equipment and systems for responder missions.
- Technical Integration to include conducting all necessary activities to ensure that equipment, sub-systems and systems are well integrated with appropriate units, platforms, vehicles, or weapon-systems to achieve responder mission objectives and requirements
- Operational Integration to include coordination support with appropriate Army, Navy, Air Force and Marine Headquarters and subordinate units to enable employment of responder capabilities with unique requirements and capabilities on highly accelerated schedules.



# OPPORTUNITY

**TITLE: Deployable Adaptive Global Responder Support (DAGRS)**

**CONTRACT TYPE: MA IDIQ with capability to issue Firm Fixed Price and Cost Plus Fixed Fee Task Orders**

**ESTIMATED VALUE: Appx. \$480M**

**CONTRACTING CONTACT: Emily Hobbs,  
emily.s.hobbs.civ@mail.mil**

**SOLICITATION #: W911NF-16-R-0001**

**SOLICITATION RELEASE DATE: 2QFY16**



# ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFING TO INDUSTRY

Communications-Electronics Research, Development,  
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Space and Terrestrial Communications Directorate

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# COMMUNICATIONS

	High Level Required Capability	Capability Gaps	Specific Need	S&T Efforts
NEAR TERM (18-22)	Networking to Improve Maneuver/Expeditionary Ops	The Theater Tactical Signal BDE (T) Tactical Installation and Networking-Enhanced companies lack the ability to install aerial and subterranean communications lines in their assigned area of responsibility to a time standard with organically assigned equipment. This adversely impacts the Army's ability to ensure connectivity for all information networks and services. (AWFC 7)	Capability to provide a range of robust, reliable, scalable, interoperable and resource efficient communications capabilities to expeditionary forces and troops on the move	Antenna and Hardware Technology 6.2 / 6.3 Future Networking Protocols – Waveforms RF Conv STO-D - C4 HW Sharing Integration and Demonstration
	Uninterrupted Communications	The IBCT (T) lacks the ability to communicate and share information, uninterrupted, when operating over extended distances, beyond line of sight, and in complex terrain, across the range of military operations, in order to fully enable mission command capabilities for leaders. (AWFC 7)	Capability to enable robust terrestrial and satellite communication network through spectrum congested environment in presence of EW and other unintentional emitters using cost-effective solutions	Future Communications and Networking Technology Future Communications and Networking Integration EM Effects STO-D - Directional Networking



# COMMUNICATIONS

	High Level Required Capability	Capability Gaps	Specific Need	S&T Efforts
NEAR TERM (18-22)	Cyber/CEMA Operation	<p>The Cyber Electromagnetic Activities Elements across Army formations lack the capability to collect, develop, disseminate, display, and maintain cyberspace operations information during integrated decisive operations to support commander's intent. This adversely affects the Army's ability to support commander's situational understanding, answer commander's critical information requirements and contribute to the common operating picture at the commander's operational tempo. (AWFC 1, 7, 9)</p> <p>The Army, at all echelons, has limited ability to secure and defend networks, information systems, data, and platforms against all types of cyberspace threats under the range of military operations to protect network infrastructure, information systems, and data to prevent or identify 99.9% malicious attempts. This adversely impacts the Army's ability to counter cyberspace threats and achieve mission assurance. (AWFC 6, 15)</p>	<p>Capability to detect, protect and defend cyberspace and the EMS, while simultaneously denying and degrading adversary use of the same, as well as protecting friendly mission command systems</p>	<p>Communications Information Assurance (CIA) Components Cyber Collaborative Research Alliance Applied Research Tactical Cyber Defense Integration and Demonstration C-STAF STO-R - CEMA Data Distribution, Transfer, and Workflow Communications Information Assurance (CIA) Integration RF Conv STO-D - Information Assurance</p>



# C4ISR INTEGRATED DEMONSTRATIONS

	High Level Required Capability	Capability Gaps	Specific Need	S&T Efforts
NEAR TERM (18-22)	Enabling Infrastructure	Conduct Space and Cyber Electromagnetic Operations and Maintain Communications: How to assure uninterrupted access to critical communications and information links (satellite communications [SATCOM], positioning, navigation, and timing [PNT], and intelligence, surveillance, and reconnaissance [ISR]) across a multi-domain architecture when operating in a contested, congested, and competitive operating environment. (AWFC 7)	Capability to provide a seamless infrastructure for technology assessment and risk reduction with traceability across the modeling and simulation, laboratory, and field environments	C4ISR Integrated Demonstrations



# PROGRAM OVERVIEW

The Space and Terrestrial Communications Directorate (S&TCD) is part of the Communications-Electronics Research Development Engineering Center (CERDEC). There are six Program Divisions: Cyber Security and Information Assurance (CSIA), Satellite Communications (SATCOM) Systems, Systems Engineering Architecture, Modeling and Simulation (SEAMS), Radio Frequency Communications (RFC), Tactical Communications, CERDEC Ground Activity, and the Operations. Each S&TCD division has a specific mission area of responsibility in support of the Army's need for the most modern strategic and tactical communication technologies.

## **S&TCD's Capability Focus Areas include:**

- Networking to Improve Maneuver/Expeditionary Operations
- Uninterrupted Communications
- Cyber / Cyber Electro-Magnetic Activities (CEMA) Operations
- Enabling Infrastructure



# S&TCD'S CAPABILITY FOCUS AREAS

## Networking to Improve Maneuver/Expeditionary Ops

Capability to provide a range of robust, reliable, scalable, interoperable and resource efficient communications capabilities to expeditionary forces and troops on the move

- Wireless
- Modular Hardware
- Commercial Based Communications
- Future Waveform Protocols
- Network Maneuver Systems Architecture

## Cyber/CEMA Operations

Capability to seize, retain, and exploit an advantage in both cyberspace and the EMS, while simultaneously denying and degrading adversary use of the same, as well as protecting friendly mission command systems

- Cyber
- Trust
- Resilience
- Cyber Research Alliance

## Uninterrupted Communications

Capability to enable robust terrestrial and satellite communication network through spectrum congested environment in presence of Electronic Warfare and other unintentional emitters using cost-effective solutions

- Directional Networking
- Communications in a Contested/Congested Environment
- Multi-Functional Waveforms
- Interference Management

## Enabling Infrastructure

Capability to provide a seamless infrastructure for technology assessment and risk reduction with traceability across the modeling and simulation, laboratory, and field environments

- Network Modeling & Simulation
- Field Based Risk Reduction

# BROAD AGENCY ANNOUNCEMENT FOR NIGHT VISION TECHNOLOGIES

This BAA solicits proposals against a broad range of night vision technologies which support the Warfighter and challenges of Asymmetric Warfare. The technologies have been divided into four (4) sections: Air Systems; Science and Technology; Ground Combat Systems; and Modeling and Simulation.

## FOCUS AREAS INCLUDE:

- **Air Systems**
  - Distributed Aperture System and Multi-Modal Sensor Fusion for Degraded Visual Environments and Wide Field of View Longwave Infrared Camera Development
- **Science and Technology**
  - Countermine Algorithm Development, Novel Countermine Sensor Development, Manufacturing Improvements for Uncooled FPAs, North Finding Technologies, Low Light Imaging Sensors, Optics and Display Technologies, Cooled FPA Research and Laser Designation, Range Finding, Markers and Pointers research
- **Ground Combat Systems**
  - Manned Vehicles, IR Search and Track, Hostile Fire Detection, Pre-Shot Counter Sensors, Commanders Sight, Degraded Visual Environment, and Individual Soldier technologies
- **Modeling and Simulation**
  - Human Perception research, Augmented Reality Sensors, Target Acquisition Modeling, Recognition of Combatants and Integrated Sensor Architecture Network and Service technologies



# OPPORTUNITY

BROAD AGENCY ANNOUNCEMENT (BAA) FOR NIGHT VISION TECHNOLOGIES

**TITLE: Broad Agency Announcement for Night Vision Technologies**

**CONTRACT TYPE: FFP, CPFF, Grants**

**ESTIMATED VALUE: Up to \$50M Per Fiscal Year**

**CONTRACTING CONTACT: Clay Socha, 703-704-0861, clay.w.socha.civ@mail.mil**

**SOLICITATION #: W909MY-14-R-D010**

**SOLICITATION RELEASE DATE: 15 August 2014  
(Amended 07 Oct 15), Closes FY19**



# DEPLOYABLE ADAPTIVE GLOBAL RESPONDER SUPPORT (DAGRS)

**DAGRS is a multiple award Indefinite Delivery/Indefinite Quantity (IDIQ) suite of contracts. The DAGRS multiple award indefinite-delivery indefinite-quantity (MA IDIQ) contract vehicle will provide research and development support to a diverse group of organizations in the following areas:**

- Technical Development and Support to include design, development, fabrication, documentation and technical support (including field service representatives) of equipment and systems for responder missions.
- Technical Integration to include conducting all necessary activities to ensure that equipment, sub-systems and systems are well integrated with appropriate units, platforms, vehicles, or weapon-systems to achieve responder mission objectives and requirements
- Operational Integration to include coordination support with appropriate Army, Navy, Air Force and Marine Headquarters and subordinate units to enable employment of responder capabilities with unique requirements and capabilities on highly accelerated schedules.



# OPPORTUNITY

**TITLE: Deployable Adaptive Global Responder Support (DAGRS)**

**CONTRACT TYPE: MA IDIQ with capability to issue Firm Fixed Price and Cost Plus Fixed Fee Task Orders**

**ESTIMATED VALUE: Appx. \$480M**

**CONTRACTING CONTACT: Emily Hobbs,  
emily.s.hobbs.civ@mail.mil**

**SOLICITATION #: W911NF-16-R-0001**

**SOLICITATION RELEASE DATE: 2QFY16**



# ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFING TO INDUSTRY

Space and Terrestrial Communications Directorate

4 November 2015

*The forecast data is for planning purposes, does not represent a pre-solicitation synopsis, does not constitute an invitation for bid or request for proposal, and is not a commitment by the government to purchase the desired products and services*

**★ CERDEC**  
US ARMY - FORCCEM1



**U.S. ARMY**

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- Cyber
- Trust
- Resilience
- Cyber Research Alliance

## Enabling Infrastructure

Capability to provide a seamless infrastructure for technology assessment and risk reduction with traceability across the modeling and simulation, laboratory, and field environments

- Network Modeling & Simulation
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# COMMUNICATIONS

	High Level Required Capability	Capability Gaps	Specific Need	S&T Efforts
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U.S. ARMY  
**RDECOM**

# COMMUNICATIONS

High Level Required Capability	Capability Gaps	Specific Need	S&T Efforts
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">NEAR TERM (18-22)</p> <p>Cyber/CEMA Operation</p>	<p>The Cyber Electromagnetic Activities Elements across Army formations lack the capability to collect, develop, disseminate, display, and maintain cyberspace operations information during integrated decisive operations to support commander's intent. This adversely affects the Army's ability to support commander's situational understanding, answer commander's critical information requirements and contribute to the common operating picture at the commander's operational tempo. (AWFC 1, 7, 9)</p> <p>The Army, at all echelons, has limited ability to secure and defend networks, information systems, data, and platforms against all types of cyberspace threats under the range of military operations to protect network infrastructure, information systems, and data to prevent or identify 99.9% malicious attempts. This adversely impacts the Army's ability to counter cyberspace threats and achieve mission assurance. (AWFC 6, 15)</p>	<p>Capability to detect, protect and defend cyberspace and the EMS, while simultaneously denying and degrading adversary use of the same, as well as protecting friendly mission command systems</p>	<p>Communications Information Assurance (CIA) Components                      Cyber Collaborative Research Alliance Applied Research                      Tactical Cyber Defense Integration and Demonstration                      C-STAF STO-R - CEMA Data Distribution, Transfer, and Workflow                      Communications Information Assurance (CIA) Integration                      RF Conv STO-D - Information Assurance</p>



# C4ISR INTEGRATED DEMONSTRATIONS

	High Level Required Capability	Capability Gaps	Specific Need	S&T Efforts
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# CONTRACTING OPPORTUNITY OPERATIONS DIVISION

## TITLE: STCD Enterprise Wide Technical Administrative Operations Support Services Task Order

Support includes, but is not limited to: Program/Project support of Research and Development (R&D) engineering, hardware/software installation, telecommunications, training, and test efforts; administrative, purchasing and logistics support as well as Scientific and Engineering Technical Assistance (SETA) support; data analysis; and conferencing.

**CONTRACT TYPE: [CPFF]**

**ESTIMATED VALUE: \$150,000,000**

**CONTRACTING CONTACT: ACC-APG**

**SOLICITATION #: [TBD]**

**ESTIMATED SOLICITATION RELEASE DATE: 2QFY16**



# CONTRACTING OPPORTUNITY

## CSIA DIVISION

### **TITLE: Tactical Network Protection/Mission Assurance and Resilience**

Support includes: Technical and administrative support throughout the Tactical Network Protection (TNP) Branch of the CSIA Division, with focus on Mission Assurance and Resilience (MAR) efforts.

**CONTRACT TYPE: [CPFF]**

**ESTIMATED VALUE: \$45,000,000**

**CONTRACTING CONTACT: ACC-APG**

**SOLICITATION #: [TBD]**

**ESTIMATED SOLICITATION RELEASE DATE: 1QFY16**



# CONTRACTING OPPORTUNITY

## CSIA DIVISION

### TITLE: Risk Management Framework Support

Support includes: Test and evaluation services to IT accreditation/authorization processes. Compliance with National, Department of Defense (DoD), and Army level Policy; Defense Information Systems Agency (DISA) Security Technical Implementation Guidance (STIG), DISA Security Requirements Guides (SRG), and commercial best business practices. Assessments will be utilized to formulate a residual risk analysis to support an authorization decision.

**CONTRACT TYPE: [CPFF]**

**ESTIMATED VALUE: \$3,500,000**

**CONTRACTING CONTACT: ACC-APG**

**SOLICITATION #: [TBD]**

**ESTIMATED SOLICITATION RELEASE DATE: 4QFY16**



# CONTRACTING OPPORTUNITY

## CSIA DIVISION

### **TITLE: Network, Cyber Security, and Information Assurance Technical and Engineering Support**

Support includes: SETA support in the field of Cyber Security and Information Assurance within the Communications-Electronics Research, Development, and Engineering Center (CERDEC) Research and Development Network Infrastructure; support includes Systems Administration, Cyber Analytics, Information Assurance (IA) Engineering, Network Engineering, and assistance with acquisition of hardware/software in support of a complex R&D heterogeneous lab environment.

**CONTRACT TYPE: [CPFF]**

**ESTIMATED VALUE: \$30,000,000**

**CONTRACTING CONTACT: ACC-APG**

**SOLICITATION #: [TBD]**

**ESTIMATED SOLICITATION RELEASE DATE: 1QFY16**



# CONTRACTING OPPORTUNITY

## CSIA DIVISION

### **TITLE: National Security Agency (NSA)/Government-Off-The-Shelf**

Support includes: Communications Security (COMSEC) support and expertise that spans a variety of technical subjects ranging from NSA certification requirements and design processes; cryptographic modernization; key management infrastructure, strategy, and transition/fielding support; Commercial Security for Classified (CSfC) expertise; et.al., as well as all aspects of full product lifecycle such as requirements interpretation, security verification testing, fielding, and maintenance support.

**CONTRACT TYPE: [CPFF]**

**ESTIMATED VALUE: \$22M**

**CONTRACTING CONTACT: ACC-APG**

**SOLICITATION #: [TBD]**

**ESTIMATED SOLICITATION RELEASE DATE: 2QFY16**



# CONTRACTING OPPORTUNITY

## CSIA DIVISION

### **TITLE: Information Security Branch Scientific, Engineering, & Technical Assistance**

Support includes: Scientific, Engineering, and Technical Assistance to conduct Defensive Cyber Operations (DCO) research and development, providing cyber security subject matter expertise to Army Programs of Record, assessing risk of Cross Domain Solutions (CDS), and conducting Assessments of systems in accordance with DoD and Army cyber security requirements.

**CONTRACT TYPE: [CPFF]**

**ESTIMATED VALUE: \$40M**

**CONTRACTING CONTACT: ACC-APG**

**SOLICITATION #: [TBD]**

**ESTIMATED SOLICITATION RELEASE DATE: 2QFY16**



# CONTRACTING OPPORTUNITY SATCOM DIVISION

## TITLE: Test and Evaluation

Support includes: Technical support for DoD SATCOM Test and Evaluation activities.

**CONTRACT TYPE: [CPFF]**

**ESTIMATED VALUE: \$9,000,000**

**CONTRACTING CONTACT: ACC-APG**

**SOLICITATION #: [TBD]**

**ESTIMATED SOLICITATION RELEASE DATE: 4QFY16**



# CONTRACTING OPPORTUNITY SATCOM DIVISION

## **TITLE: Scientific, Engineering, & Technical Assistance**

Support includes: Systems Engineering support for the DoD SATCOM developmental and laboratory activities.

**CONTRACT TYPE: [CPFF]**

**ESTIMATED VALUE: \$9,000,000**

**CONTRACTING CONTACT: ACC-APG**

**SOLICITATION #: [TBD]**

**ESTIMATED SOLICITATION RELEASE DATE: 4QFY16**



# CONTRACTING OPPORTUNITY RADIO FREQUENCY COMMUNICATION DIV.

## TITLE: System Engineering Support Services

Support includes: Scientific, Engineering and Technical Assistance and material purchasing in support of Research and Development and acquisition programs (R2-3G).

**CONTRACT TYPE: [CPFF]**

**ESTIMATED VALUE: \$45,000,000 (POP: 36 Mons)**

**CONTRACTING CONTACT: ACC-APG**

**SOLICITATION #: [TBD]**

**ESTIMATED SOLICITATION RELEASE DATE: 1QFY16**



# CONTRACTING OPPORTUNITY RADIO FREQUENCY COMMUNICATIONS DIV.

## TITLE: Program Support

Support includes: Scientific, Engineering, and Technical Assistance and material Purchases in support of Research & Development and acquisition programs (GSA).

**CONTRACT TYPE: [CPFF]**

**ESTIMATED VALUE: \$30,000,000 (POP: 36 Mons)**

**CONTRACTING CONTACT: ACC-APG**

**SOLICITATION #: [TBD]**

**ESTIMATED SOLICITATION RELEASE DATE: 1QFY16**



# CONTRACTING OPPORTUNITY SYSTEMS ENGINEERING ARCHITECTURE, MODELING, & SIMULATION DIVISION

## TITLE: Condition Based Maintenance Plus (CBM+)/System Engineering Support

Support includes: Project management, engineering design, development, integration and analysis of architectures such as the Common CBM+ Communications Architecture and systems engineering analysis in the form of studies, white papers, and network design documentation.

**CONTRACT TYPE: [CPFF]**

**ESTIMATED VALUE: \$5,500,000**

**CONTRACTING CONTACT: ACC-APG**

**SOLICITATION #: [TBD]**

**ESTIMATED SOLICITATION RELEASE DATE: 1QFY16**



# CONTRACTING OPPORTUNITY SYSTEMS ENGINEERING ARCHITECTURE, MODELING, & SIMULATION DIVISION

## **TITLE: Technology Area: Modeling and Simulation Support**

Support includes: Subject matter expertise in the areas of tactical network modeling, emulation, simulation and data analysis.

**CONTRACT TYPE: [FFP]**

**ESTIMATED VALUE: \$9,900,000**

**CONTRACTING CONTACT: ACC-APG**

**SOLICITATION #: [APG]**

**ESTIMATED SOLICITATION RELEASE DATE: 3QFY16**



# CONTRACTING OPPORTUNITY SYSTEMS ENGINEERING ARCHITECTURE, MODELING, & SIMULATION DIVISION

## TITLE: Army Special Access Program (SAP) Enterprise Portal (ASEP)

Support includes: Systems Engineering and technical support in the development of an engineering solution to maintain a network infrastructure and application suite that enables secure compartmented communications mechanisms, including a web-centric collaboration environment, Email, Voice Over Internet Protocol (VOIP) phones, and Video Teleconferencing (VTC).

**CONTRACT TYPE: [FFP]**

**ESTIMATED VALUE: \$1,450,000**

**CONTRACTING CONTACT: ACC-APG**

**SOLICITATION #: [APG]**

**ESTIMATED SOLICITATION RELEASE DATE: 1QFY16**



# CONTRACTING OPPORTUNITY

## TACTICAL COMMUNICATIONS DIVISION

### TITLE: Multi-Capability Service and Development Support (R2-3G)

Support includes: Engineering and technical expertise in support of efforts involving existing, evolving and emerging tactical communications systems and technologies resulting in development of prototypes, integrated systems, and upgrades to the current tactical radio system(s) for subsequent integration, test, demonstration and fielding.

**CONTRACT TYPE: [CPFF]**

**ESTIMATED VALUE: \$80,000,000**

**CONTRACTING CONTACT: ACC-APG**

**SOLICITATION #: [TBD]**

**ESTIMATED SOLICITATION RELEASE DATE: 2QFY16**



# CONTRACTING OPPORTUNITY TACTICAL COMMUNICATIONS DIVISION

## TITLE: Systems Engineering Support (GSA Schedule)

Support includes: Systems engineering, design and development; laboratory test and Evaluation; field engineering support and material acquisition.

**CONTRACT TYPE: [CPFF]**

**ESTIMATED VALUE: \$75,000,000**

**CONTRACTING CONTACT: ACC-APG**

**SOLICITATION #: [TBD]**

**ESTIMATED SOLICITATION RELEASE DATE: 2QFY16**

