

U.S. ARMY

Small Business Innovation Research (SBIR)



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U.S. ARMY

**SMALL BUSINESS INNOVATION RESEARCH
PROGRAM (SBIR)**

**MISSION OBJECTIVES
AND
POINTS OF CONTACT**

NOTE: THIS DOCUMENT WAS COMPILED AS A SOURCE OF INFORMATION FOR SMALL BUSINESSES INTERESTED IN PARTICIPATING IN THE ARMY SBIR PROGRAM. DATA IN THIS DOCUMENT WAS COMPILED FROM PUBLIC SOURCES AND AS SUCH, DISTRIBUTION IS UNLIMITED

EDITED BY PROGRAM MANAGEMENT
OFFICE, ARMY SBIR:
*CREDIT TO MR. OTHO H. THOMAS, JR, MS.
KATHY HERRING, AND MS. JANE R. GREER
FOR THIS DOCUMENT'S INCEPTION AND
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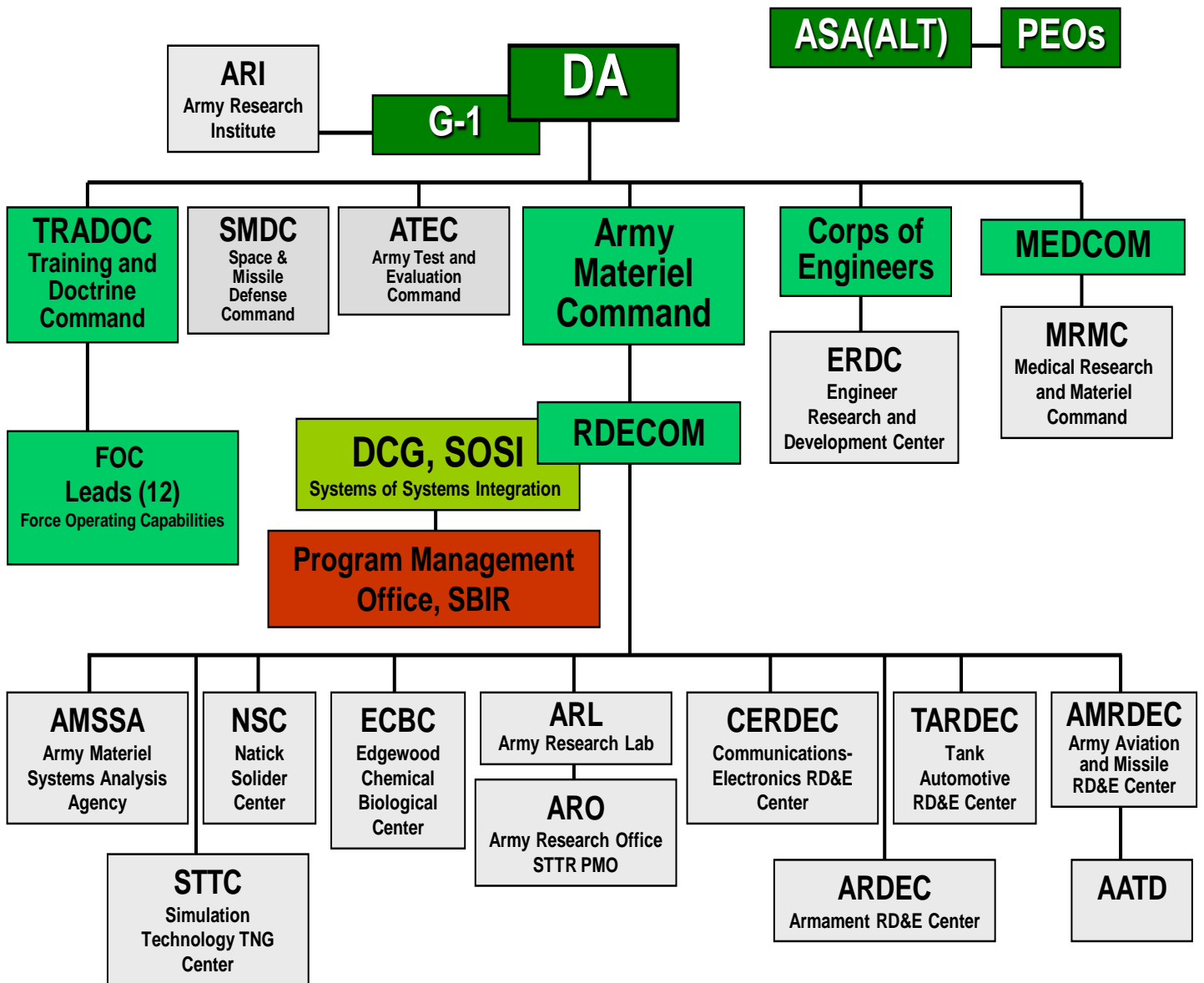
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ARMY R&D Organizations



I. ARMAMENT, RESEARCH, DEVELOPMENT AND ENGINEERING CENTER (ARDEC), PICATINNY ARSENAL, NJ

SBIR POC: Carol L'Hommedieu, 973-724-4029, carol.j.lhommedieu@us.army.mil

Headquartered at Picatinny Arsenal, New Jersey, the Armament Research, Development and Engineering Center (ARDEC) is the Army's principal researcher, developer and sustainer of current and future armament and munitions systems. ARDEC plays a key role in Army Transformation with its involvement in the development of the Soldier and Future Combat Systems and continued efforts in the development of advanced weapons. ARDEC is the Army's "Center of Lethality" and is committed to providing the warfighter the most effective products found anywhere in the world.

MISSION: ARDEC's overall mission is to improve already fielded items, develop new ones, maintain a strong armament technology base in government, industry, and academia and provide technical support to the soldier in the field. In this way, the center achieves its vision of "providing America advanced armaments for peace and war."

AREAS OF INTEREST: The Center's efforts are concentrated in ten major technical areas: Smart Munitions, Indirect Fire, Direct Fire, Soldier Weapons, Mines and Demolitions, Gun Propulsion, Fuzing and Lethal Mechanisms, Fire Control, Munitions Survivability and Pollution Prevention.

Major Technology Investments:

- Acoustic/Seismic Sensors
 - Multi-Mode Warheads
 - Novel/Nano-Structured Energetics
 - MEMS, Safe & Arm Fuzing (OICW)
 - Advanced Crew Served Weapons
 - Agile Target Effects
 - NLOS-Mortar Cannon
 - Mid-range Munition
 - MEMS Inertial Measurement Unit
 - Light Weight Machine Gun & Ammo
 - Commander's Decision Aids
 - FCS 120mm LOS/BLOS ATD
 - LADAR Sensors F/Smart Munitions
-

II. ARMY RESEARCH INSTITUTE FOR THE BEHAVIORAL AND SOCIAL SCIENCE (ARI), ARLINGTON, VA

SBIR POC: Kelly Ervin, 703-602-7949, kelly.s.ervin@us.army.mil
Beverly Harris, 703-602-797, beverly.c.harris@us.army.mil
Dr. Peter Legree, 703-602-7936, pete.legree@us.army.mil
Dr. Doug Dressel, 703-602-7927, doug.dressel@us.army.mil

MISSION: Improve Soldier, leader, and unit performance through advances in behavioral and social sciences; enable synergy between human and technology innovation for mission success.

OBJECTIVES: To provide non-material human science solutions that allows Soldiers and leaders to leverage the full potential of the advanced technologies being developed and fielded, and to adapt and excel in any situation.

AREAS OF INTEREST:

- Selection and classification
 - Human learning
 - Training and leader development
 - Performance measurement
 - Group dynamics
 - Culture and society
 - Attitudes and opinions
-

III. ARMY RESEARCH LABORATORY (ARL), ADELPHI, MD

SBIR POC: John Goon, 301-394-4288, john.goon@us.army.mil

The Army Research Laboratory (ARL) is the Army's corporate basic and applied research laboratory. Its mission is to provide innovative science, technology, and analysis to enable full-spectrum operations. ARL consists of the Army Research Office (ARO) and six Directorates-- Weapons and Materials, Sensors and Electron Devices, Human Research and Engineering, Computational and Information Sciences, Vehicle Technology, and Survivability and Lethality Analysis. ARL scientific discoveries, technological advances, and analyses provide the warfighters with the capabilities to succeed on the battlefield.

A. ARMY RESEARCH OFFICE (ARO), RESEARCH TRIANGLE PARK, NC

**SBIR POC: Dr. Frank Hurley, 919-549-4322, frank.hurley@us.army.mil
Dr. Roger K. Cannon, 919-549-4278, roger.k.cannon@us.army.mil**

MISSION: The U.S. Army Research Office (ARO) mission is to seed scientific and far reaching technological discoveries that enhance Army capabilities. Basic research proposals from educational institutions, nonprofit organizations, and private industry are competitively selected and funded. ARO's research mission represents the most long-range army view for changes in its technology. It is the only Army organization that transcends all of its mission areas: Commander-Fire Support; Close Combat; Air Defense; Combat Support; Combat Service Support; Solider Support; Command, Control, and Communications. In all respects, the ARO program is the designated organization for the entire spectrum of army activities extending from research to development to acquisition. ARO priorities fully integrate Army-wide, long-range planning for research, development, and acquisition.

The roots of research are in the scientific and engineering disciplines, namely aeronautics, biology, chemistry, electronics, geosciences, mathematics, mechanics, metallurgy, physics, and so on. Many innovations are a direct result of fundamental changes in this science base. In recognition of these roots, the ARO program is organized along scientific disciplinary lines. This is the natural way in which the resident national talent base interfaces with the Army.

CHEMISTRY AREAS OF INTEREST:

- Elastomers for Soldier Protection and Army Materiel
- Electrochemistry and Power Sources
- Oxidation
- Organized Media And Organic Chemistry For Threat Agent Decontamination
- Surfaces & Catalysis
- Fast Reaction Kinetics and Energetic Materials
- Novel Molecules for Advanced Army Materiel

COMPUTING AND INFORMATION SCIENCES AREAS OF INTEREST:

- Systems And Controls
- Software And Knowledge-Based Systems
- Communications And Networks
- Info Processing/Fusion And Circuits
- Information Assurance

ELECTRONICS AREAS OF INTEREST:

- Multifunctional Sensing
- High Frequency, Mobile Platform Communications
- Information Science Electronics
- Optoelectronic Warfare
- Landmine Detection

III. ARMY RESEARCH LABORATORY (ARL), ADELPHI, MD (CONTINUED)
SBIR POC: John Goon, 301-394-4288, john.goon@us.army.mil

ENVIRONMENTAL SCIENCES AREAS OF INTEREST:

- Atmospheric Sciences
 - Atmospheric Efforts On Signature And Communications
 - Characterization Of The Atmosphere At High Resolution
 - Management And Application Of Atmospheric Information
- Terrestrial Sciences
 - Terrain Properties And Characterization
 - Terrestrial Processes And Dynamics
 - Terrestrial System Analysis And Modeling

LIFE SCIENCES AREAS OF INTEREST:

- Biomolecular And Cellular Materials And Processes
- Microbiology And Biodegradation
- Physiology, Survivability & Performance
- Neurophysiology And Cognitive Sciences
- Molecular Genetics And Genomics

MATERIALS SCIENCE AREAS OF INTEREST:

- Multifunctional And Smart Materials
- Probability And Statistics
- Deformation And Toughening Phenomena
- Defect Engineering
- Interface Engineering And Surface Modification
- Computational Materials Modeling And Design
- Synthesis & Processing
- Defect Engineering
- Deformation & Fracture
- Strengthening & Tough Materials
- Nondestructive Characterization

MATHEMATICAL SCIENCES AREAS OF INTEREST:

- Probability & Statistics
 - Stochastic Analysis and Applied Probability
 - Statistical Methods
- Discrete Mathematics And Computer Science
 - Discrete Mathematics
 - Computer Science
- Computational Mathematics
 - Numerical Methods
 - Optimization
 - Software Tools
- Modeling of Complex Systems
 - Advanced Complex Materials for Structure, Armor, and Sensors
 - Inverse Scattering In Complex Media
 - Modeling of Multi-Scale Objects and Functions
 - Nonlinear Dynamics For Communications
 - Data Fusion In Complex Networks
 - Dynamics of Distributed Networks of Embedded Sensors and Actuators

III. ARMY RESEARCH LABORATORY (ARL), ADELPHI, MD (CONTINUED)
SBIR POC: John Goon, 301-394-4288, john.goon@us.army.mil

MECHANICAL SCIENCES AREAS OF INTEREST:

- Propulsion and Energetics Programs
 - Engine Combustion
 - Gun and Missile Propulsion/Energetic Materials Hazards
- Fluid Dynamics Program
 - Flow Separation/Dynamic Stall
 - Micro Adaptive Flow Control
- Solid Mechanical Program
 - Mechanics of Heterogeneous Systems
 - Impact, Blast, and Penetration
- Structure And Dynamics Program
 - Structural Mechanics of Composite Materials
 - Structural Dynamics and Simulation
 - Smart Structures

PHYSICS AREAS OF INTEREST:

- Condensed Matter Physics Program
 - Nanometer-Scale Physics
 - Electronic and Photonic Band Engineering
 - Multifunctional Probes and Control
- Theoretical Physics and Nonlinear Phenomena
- Quantum Information Sciences
 - Fundamental Studies
 - Quantum Computation
 - Quantum Communication
- Atomic And Molecular Physics
 - Matter-Wave Optics
 - Molecular Physics
 - Fundamental Atomic and Molecular Physics
- Optics, Photonics And Imaging Science
 - Optics
 - Photonics
 - Imaging
- Soldier Enhancement
- Atomic, Molecular, and Optical Physics
- Nonlinear Dynamics and Theoretical
- Photonics
- Optics, Photonics, Image
- Quantum Information Science
- Condensed Matter

III. ARMY RESEARCH LABORATORY (ARL), ADELPHI, MD (CONTINUED)

SBIR POC: John Goon, 301-394-4288, john.goon@us.army.mil

B. COMPUTATIONAL & INFORMATION SCIENCES DIRECTORATE (CISD), ABERDEEN PROVING GROUND & ADELPHI, MD

POC: Dr. Raju Namburu, 301-394-5442, raju@arl.army.mil

MISSION: The U.S. Army Research Laboratory (ARL) Computational and Information Sciences Directorate (CISD) plays a key role in Information Sciences and Technology Research within the Army and the Department of Defense (DoD). CISD provides innovative technologies to enable knowledge superiority for the Warfighter through basic and applied research focused on battlefield communications and networks, battlefield information processing, data fusion and knowledge management, battlefield weather and environmental effects, and computational science and engineering.

The CISD mission areas include the operation of the ARL DoD Major Shared Resource Center (MSRC), the Army High Performance Computing Research Center (AHPCRC), the Communications & Networks CTA, and the Network & Information Sciences ITA. The directorate works closely with many academic, industry, and government partners to accomplish its mission.

AREAS OF INTEREST:

- Battlefield Information Processing (Software Technology, Intelligent Systems, Fusion)
- Tactical Communication & Networks (Information Distribution)
- Battlefield Environment (Weather/Meteorology)
- Computational Science & Engineering
- High Performance Computing
- Automation Resources
- Enterprise Systems

C. HUMAN RESEARCH AND ENGINEERING DIRECTORATE (HRED), ABERDEEN PROVING GROUND, MD

POC: Wendy Leonard, 410-278-5813, wendy.leonard@us.army.mil

MISSION: The Human Research and Engineering Directorate's (HRED) mission is to optimize Soldier effectiveness and Soldier-machine interactions and to ensure that future system designs will enable our Soldiers to achieve maximum performance. To fulfill this mission, HRED conducts broad-based scientific research and technology application and provides leadership in human factors integration and support to MANPRINT.

AREAS OF INTEREST:

- Soldier Performance
- Human Factors
- Soldier Information (Displays, Interfaces, Simulations)
- Soldier Centered Design Tools

D. SENSORS & ELECTRON DEVICES DIRECTORATE (SEDD), ADELPHI, MD

POC: Steven Rager, 301-394-0097, srager@arl.army.mil

MISSION: The Sensors and Electron Devices Directorate (SEDD) works in many areas crucial to the success of the future Army, providing fundamental research to give commanders real-time situational awareness; rapid and precise discrimination and targeting; highly compact, lightweight energy sources; as well as mitigating techniques for use against hostile enemy threats.

AREAS OF INTEREST:

- Electro-Optics and Photonics
- RF & Electronics
- Signal & Image Processing
- Power Generation
- Directed Energy
- Low Observable Technology

III. ARMY RESEARCH LABORATORY (ARL), ADELPHI, MD (CONTINUED)

SBIR POC: John Goon, 301-394-4288, john.goon@us.army.mil

E. SURVIVABILITY/LETHALITY ANALYSIS DIRECTORATE (SLAD), WHITE SANDS, NM & ABERDEEN PROVING GROUND, MD

POC: John Beilfuss, 410-278-6291, jwbeilfu@arl.army.mil

MISSION: On the future battlefield, the soldier will face an array of threats from the conventional, Electronic, And Electromagnetic to the Nuclear, Biological, Chemical, and Environmental. The Survivability & Lethality Analysis Directorate (SLAD) develops and conducts vulnerability and lethality assessments of Army technologies and systems and provides recommendations and technical expertise to reduce or eliminate vulnerabilities and to improve effectiveness.

AREAS OF INTEREST:

- Systems Survivability/Lethality
- Ballistic Vulnerability/Lethality
- Chem-Bio & Nuclear Effects
- Electronic Warfare
- Information Operations

F. VEHICLE TECHNOLOGY DIRECTORATE (VTD), HAMPTON, VA AND CLEVELAND, OH

POC: Peter Meitner, 216-433-3715, p.l.meitner@grc.nasa.gov

MISSION: The Vehicle Technology Directorate (VTD) is the principal Army organization for research and development in vehicle propulsion and structures. VTD conducts innovative research in propulsion, transmission, structures, and aeromechanics to provide the Army with lighter, more reliable, and more fuel-efficient air and ground combat vehicles. VTD coordinates technologies within the Army, other services and their laboratories, industry, and academia to leverage basic and applied research opportunities for the benefit of the Army.

AREAS OF INTEREST:

- Propulsion Technologies for Manned and Unmanned Air and Ground Vehicles
- Engine Components and Modeling
- Drive train Components and Modeling
- High Temperature Propulsion Materials
- Fracture mechanics structural failure prediction
- Nonlinear multibody dynamics
- Rotorcraft aeromechanics
- Microsystem mechanics
- Tactical perception
- Miniature high voltage amplification

III. ARMY RESEARCH LABORATORY (ARL), ADELPHI, MD (CONTINUED)

SBIR POC: John Goon, 301-394-4288, john.goon@us.army.mil

G. WEAPONS & MATERIALS RESEARCH DIRECTORATE (WMRD), ABERDEEN PROVING GROUND, MD

POC: Todd Rosenberger, 410-306-0669, todd.rosenberger@us.army.mil

MISSION: The U.S. Army Research Laboratory's Weapons and Materials Research Directorate (WMRD) is the principal Army organization for research and development in weapons and materials technologies. WMRD conceives, exploits, matures, and transitions novel concepts and technologies in the areas of weapons, protection, robotics, and materials to enhance the lethality and survivability of America's ground forces. WMRD also solves technical problems associated with developmental and fielded weapon systems and provides technology and support for enhanced survivability and lethality system assessment and for the Army's decision-making process. WMRD coordinates technologies within the Army, other services and their laboratories, industry, and academia to leverage basic and applied research opportunities for the benefit of the Army.

AREAS OF INTEREST:

- Materials (Ceramics, Metals, Polymers, Composites, Nanomaterials, Etc)
 - Propulsion
 - Aeroballistics
 - Terminal Effects
 - Weapons Technology Analysis and Concepts
 - Semi-Autonomous Robotics
-

IV. COMMUNICATION-ELECTRONICS RESEARCH DEVELOPMENT AND ENGINEERING CENTER (CERDEC), FT. MONMOUTH, NJ

SBIR POC: Suzanne Weeks, 732-427-3275, suzanne.weeks@us.army.mil

MISSION: To develop and integrate Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) technologies that enable information dominance and decisive lethality for the networked Warfighter.

A. NIGHT VISION AND ELECTRONIC SENSORS DIRECTORATE AREAS OF INTEREST:

- Thermal Imaging
- Image Intensification
- Advanced Optics And Displays
- Lasers/Laser Radar
- Image and Signal Processing (e.g., Automatic/Aided Target Recognition)
- Countermine/Improvised Explosive Devices (IEDs)
- Sensor Modeling & Simulation
- Systems Level Integration
- Sensor Networks
- Deception

B. INTELLIGENCE AND INFORMATION WARFARE DIRECTORATE AREAS OF INTEREST:

- Intelligence, Surveillance and Reconnaissance ISR Sensors
- SIGINT
- COMINT
- ELINT
- MASINT
- RADINT
- Multi-INT
- Intelligence, Surveillance and Reconnaissance ISR Processing
- Electronic Warfare/Force Protection
- Information Operations
- Combat Identification
- Modeling and Simulation

C. SPACE AND TERRESTRIAL COMMUNICATIONS DIRECTORATE AREAS OF INTEREST:

- Information Assurance
- Antennas
- Mobile Networking
- Mobile Laser

IV. COMMUNICATION-ELECTRONICS RESEARCH DEVELOPMENT AND ENGINEERING CENTER (CERDEC), FT. MONMOUTH, NJ (CONTINUED)

SBIR POC: Suzanne Weeks, 732-427-3275, suzanne.weeks@us.army.mil

D. COMMAND AND CONTROL DIRECTORATE AREAS OF INTEREST:

- Battle Command
 - Visualization of Battlefield Information
 - Service Based Software Technologies for Plan Execution & Monitoring
 - Mobile Computer Middleware
 - Rapid Capture of Commanders' Knowledge
 - Contextual Information Management
 - Knowledge Management
 - Web-Based Technologies for Planning
 - Common Graphics Unit Interface (GUI) to Virtual Services
 - Visual Displays
 - Immersive 3D
 - Interactive Speech
 - Machine Language Translation/Natural Language Processing
 - Position Navigation
 - Positioning, Navigation & Timing
 - Algorithms for Organic Unmanned Sensor Systems/Platforms
 - Future Force Power
 - Fuel Cells & Hybrid Systems
 - Power Management
 - Electromechanical Devices & Systems
 - Ultracapacitors
 - Rechargeable Batteries
 - Battery Chargers
 - Heat Actuated Cooling
 - Renewable Energy Sources
 - Prototype Development & Platform Integration Technologies
-

V. U.S. ARMY CORPS OF ENGINEERS, ENGINEER RESEARCH AND DEVELOPMENT CENTER (ERDC), ERDC
Headquarters: 3909 Halls Ferry Road, Vicksburg, MS 39180-6199

SBIR POC: Theresa Salls, 603-646-4591, theresa.a.salls@us.army.mil

ERDC is one of the most diverse engineering and scientific research organizations in the world. It consists of seven laboratories at four geographical sites in Vicksburg, Mississippi; Champaign, Illinois; Hanover, New Hampshire; and Alexandria, Virginia; employs more than 2,000 engineers, scientists and support personnel; has \$1.2 billion in facilities; and conducts an annual research program exceeding \$700 million.

MISSION: ERDC research and development supports the department of defense, other federal agencies, and the nation in military and civilian projects. Its primary mission areas include:

- Warfighter Support
- Installations
- Environment
- Water Resources
- Information Technology

AREAS OF INTEREST: Research projects include facilities, airfields and pavements, protective structures, sustainment engineering, environmental quality, installation restoration (cleanup), compliance and conservation, regulatory functions, flood control, navigation, recreation, hydropower, topography, mapping, geospatial data, winter climatic conditions, oceanography, environmental impacts, and information technology.

A. CONSTRUCTION ENGINEERING RESEARCH LABORATORY (CERL), PO BOX 9005, 2902 NEWMARK DRIVE, CHAMPAIGN, IL 61826-9005

POC: Maria Ehmann, 217-373-6745, maria.ehmann@us.army.mil
Teresa Aden, 217-373-6789, teresa.aden@us.army.mil

MISSION: CERL conducts research to support sustainable military installations. Research is directed toward increasing the Army's ability to more efficiently construct, operate, and maintain its installations and ensure environmental quality and safety at a reduced life-cycle cost. Excellent facilities support the Army's training, readiness, mobilization, and sustainability missions. An adequate infrastructure and realistic training lands are critical assets to installations, which serve as platforms to project power worldwide. CERL also supports ERDC'S R&D mission in civil works and military engineering.

AREAS OF INTEREST:

- Installation Operations - research into technologies and systems that can be used to reduce the manpower and costs associated with operating installations by improving the maintenance and repair of infrastructure, conserving and improving energy utilization, preventing pollution and complying with environmental regulations, and IMPROVING Base Operations (BASOPS) management functions through business and process reinvention.
- Military Land Management – research to provide knowledge, tools, and improved practices to support the sustained military use of military lands, seas, and airspace, and to support military stewardship of natural and cultural geophysical resources on these lands.
- Facility Acquisition and Revitalization – Research to improve the facility delivery process, mitigate facility seismic risk, and develop enduring building systems.

**V. U.S. ARMY CORPS OF ENGINEERS, ENGINEER RESEARCH AND DEVELOPMENT CENTER (ERDC), ERDC
Headquarters: 3909 Halls Ferry Road, Vicksburg, MS 39180-6199 (CONTINUED)
SBIR POC: Theresa Salls, 603-646-4591, theresa.a.salls@us.army.mil**

**B. COLD REGIONS RESEARCH & ENGINEERING LABORATORY (CRREL), 72 LYME ROAD, HANOVER, NH
03755-1290
POC: Richard Detsch, 603-646-4625, richard.detsch@us.army.mil**

MISSION: CRREL's mission is to gain knowledge of cold regions through scientific and engineering research and put that knowledge to work for the Corps of Engineers, the Army, the Department of Defense, and the nation. CRREL is the DoD's only laboratory that addresses the problems and opportunities unique to the world's cold regions. Our work includes an amazing array of topic areas, including engineering and technology in cold regions, seismic-acoustic physics, tools for military combat and survival in cold weather, and many others.

AREAS OF INTEREST:

- Conducts Research to Characterize the Constraints Placed on Army Materiel and Operations in a Realistic Winter Battlefield Environment
 - Develops Techniques and Equipment to Mitigate Effects.
 - Provides Engineering and Consultant Services on Cold Related Problems to Developers of Army Doctrine and Materiel
- Conducts Research to Characterize the Nature and the Impact of Cold Effects on Construction, Operations and Maintenance of Army and Civil Works Facilities and Activities
 - Develops New Procedures and Equipment to Minimize Costs
 - Provides Environmental Services on Cold Related Problems to Developers of Equipment, Managers of Army and Civil Works Facilities and Other Field Users
- Conducts Research and Recommends Mitigative Measures on the Impact of Human Activity on the Environment in Cold Regions
- Conducts Fundamental Research to Understand the Nature and Characteristics of Snow, Ice, Frozen Ground and Other Materials in Cold Environments Including Their Inter-Relationship with Other Environmental Parameters
- Performs Other Research and Development as Required By Agreements Between the Office of the Chief of Engineers (OCE) and Other Army and Government Agencies, and the Private Sector

**C. TOPOGRAPHIC ENGINEERING CENTER (TEC), 7701 TELEGRAPH ROAD, BUILDING 2592, ALEXANDRIA, VA 22315-3864
POC: James Rogers, 703-428-7447, jim.rogers2@us.army.mil**

MISSION: TEC's mission is to provide the warfighter with a superior knowledge of the battlefield, and support the nation's civil and environmental initiatives through research, development, and the application of expertise in the topographic and related sciences.

AREAS OF INTEREST:

- Use Imagery, Geographic Information Systems (GIS), and Integrating Technologies to Provide Superior Knowledge of the Battlespace
- Exploit Visual, Spectral, Spatial, and Other Remote and Insitu Sensor Data for Mapping, Terrain Analysis, Feature Extraction, Battlespace Chem/Bio Detection, Precise Positioning, and Navigation for Both Warfighter and Civil Communities
- Analyze, Integrate, Exploit, Display, and Visualize Geospatial Information
- System Development, Scientific Integration and Demonstration Support to Build and Illustrate the Use of Geospatial Systems and Technologies
- Generate, Build, Disseminate, and Manage Geospatial Information for the Warfighter and the Civil Community.

**V. U.S. ARMY CORPS OF ENGINEERS, ENGINEER RESEARCH AND DEVELOPMENT CENTER (ERDC), ERDC
Headquarters: 3909 Halls Ferry Road, Vicksburg, MS 39180-6199 (CONTINUED)
SBIR POC: Theresa Salls, 603-646-4591, theresa.a.salls@us.army.mil**

**D. COASTAL AND HYDRAULICS LABORATORY, (CHL), 3909 HALLS FERRY ROAD, VICKSBURG, MS 39180-6199
POC: Theresa Salls, 603-646-4591, theresa.a.salls@us.army.mil**

MISSION: The U.S. Army Engineer Research and Development Center, Coastal & Hydraulics Laboratories (CHL) ocean/estuarine research support work for the DOD Task force in support of the ocean commission with USACE.

MILITARY HYDROLOGY AREAS OF INTEREST:

- Coastal Engineering
- Hydraulic Engineering
- Flood Control and Navigation
- Dynamic Modeling and Simulation
- Environmental Impact and Groundwater Modeling
- Dredging and Dredged Material Disposal

**E. GEOTECHNICAL AND STRUCTURES LABORATORY, (GSL), 3909 HALLS FERRY ROAD, VICKSBURG, MS 39180-6199
POC: William M. Myers, 601-634-3376, william.m.myers@us.army.mil**

MISSION: The Geotechnical And Structures Laboratory (GSL) is a Department of Defense (DOD) research and engineering organization that serves the U.S. Army and the nation by developing solutions to challenges in geotechnical and structural engineering and related disciplines. Its mission focuses on military engineering to develop innovative technologies for survivability and protective structures, airfields/pavements, and sustained maneuverability, and on civil works engineering to support water-resource infrastructure and geosciences.

AREAS OF INTEREST:

- Soil and Rock Mechanics
- Geotechnical Engineering
- Geology, Geophysics, and Hydrogeology
- Earthquake Engineering
- Pavements Technology
- Structural Engineering, Including Structural Dynamics
- Military Engineering
- Vehicle-Terrain Interaction
- Concrete and Construction Materials Technology

**V. U.S. ARMY CORPS OF ENGINEERS, ENGINEER RESEARCH AND DEVELOPMENT CENTER (ERDC), ERDC
Headquarters: 3909 Halls Ferry Road, Vicksburg, MS 39180-6199 (CONTINUED)**
SBIR POC: Theresa Salls, 603-646-4591, theresa.a.salls@us.army.mil

F. ENVIRONMENTAL LABORATORY, (EL), 3909 HALLS FERRY ROAD, VICKSBURG, MS 39180-6199
POC: Steve Pranger, 601-634-3706, steve.pranger@us.army.mil

MISSION: Environmental Laboratory staff supports the environmental mission of the U.S. Army, the DoD, and the nation through research, development, special studies, and technology transfer. Environmental laboratory research includes a network of expertise and facilities from other ERDC and corps laboratories, other government agencies, academia, and private sector.

AREAS OF INTEREST:

- Environmental Site Characterization
 - Installation Restoration
 - Ecosystem Processes
 - Wetlands Processes
 - Reservoir, Ravine, Estuarine And Coastal Water Quality
- Natural Resource Management

G. INFORMATION TECHNOLOGY LABORATORY (ITL), 3909 HALLS FERRY ROAD, VICKSBURG, MS 39180-6199
POC: Theresa Salls, 603-646-4591, theresa.a.salls@us.army.mil

MISSION: The Information Technology Laboratory (ITL) is the preeminent engineering information technology organization in the Department Of Defense (DoD). ITL supports the research missions of U.S. Army Engineer Research And Development Center (ERDC), other Corps activities, the Army, DoD, and other agencies by conceiving, planning, managing, conducting, and coordinating Research And Development (R&D) in high performance computing, computer-aided and interdisciplinary engineering, computer science, information technology, and instrumentation systems. Through a balanced program of R&D and demonstration, ITL advances the Army's knowledge and ability to use advanced information technology to address a wide range of engineering and scientific challenges.

AREAS OF INTEREST:

- Computer-Aided Engineering
 - Computer Science
 - DoD High-Performance Computing Center
 - Information Management
 - Instrumentation Systems Development
-

VI. EDGEWOOD CHEMICAL BIOLOGICAL CENTER (ECBC), ABERDEEN PROVING GROUND, MD

SBIR POC: Ron Hinkle, 410-436-2031, ron.hinkle@us.army.mil

MISSION: Provide integrated science, technology and engineering solutions to overcome chemical and biological vulnerabilities

VISION: Be the premier national resource for chemical and biological defense solutions

CRITICAL CAPABILITIES:

- Chemistry and Bioscience of CB Warfare
- Inhalation Technology
- Aerosol Physics
- Filtration Sciences
- Agent Spectroscopy/Algorithm Development
- CB Testing and Evaluation
- CB Materiel Acquisition
- Agent Handling and Surety
- Chemical Munitions Field Operations

AREAS OF INTEREST:

- Detection and Identification of Chemical and Biological (CB) Agents
 - Advanced Warning of All Chemical and Biological Agents
 - Chemical and Biological Protective Masks
 - Provide Smoke for Protection of the Battlefield
 - Collective Protection Against CB Agents For Vans, Vehicles and Shelters
 - Decontamination of Equipment Exposed to CB Agents
 - Preparedness Against Domestic CB Terrorism
-

VII. NATICK SOLDIER RESEARCH, DEVELOPMENT & ENGINEERING CENTER (NSRDEC), NATICK, MA

SBIR POC: Dr. Gerald Raisanen, 508-233-4223, gerald.raisanen@us.army.mil

MISSION: We have the dedicated mission to maximize the soldier's survivability, sustainability, mobility, combat effectiveness and quality of life by treating the soldier as a system

OBJECTIVES: We accomplish our mission through basic and applied research, technology development and demonstration, and engineering of combat clothing and individual equipment, rations and food service equipment, airdrop systems, shelters, and organizational equipment. We also integrate and transition the technologies for combat-essential elements of command and control, survivability, lethality, sustainability and mobility into the soldier system and warrior systems for other services and agencies. We are in direct support of the Army's S&T vision, strategy, and transformation objectives.

VISION: To be the recognized center and partner of choice for warrior and homeland defender related research, development, technologies and systems.

AREAS OF INTEREST:

- Ballistic Protection
 - Percutaneous Chemical/Biological Protection
 - Countermeasures to Sensors
 - Multifunctional Materials
 - Bioengineered Materials
 - Laser Eye Protection
 - Soldier Modeling and Simulation
 - Soldier Integrated/Environmental Protection
 - Airdrop Systems
 - Performance Enhancements and Nutrition
 - Food Preservation and Stabilization
 - Food Packaging
 - Food Service Equipment/Energy
 - Airbeam Technology for Shelters
 - Rigid and Soft Wall Shelters
 - Organizational Equipment
-

VIII. U.S. ARMY MEDICAL RESEARCH AND MATERIEL COMMAND (USAMRMC), FORT DETRICK, MD

SBIR POC: Mr. J.R. Myers, 301-619-7377, james.myers10@us.army.mil
Mr. Terry McCune, 301-619-2110, terry.mccune@us.army.mil

MISSION:

- Provide medical knowledge and materiel that supports the Warfighter across the full spectrum of health care missions worldwide
- Provide medical knowledge and materiel lifecycle management and execution for the Warfighter across the full spectrum of health care missions worldwide
- Partner with other military and government agencies, academia, and private industry
- Specific functions:
 - To advance Research, development, and acquisition of knowledge and medical products.
 - To deliver, maintain, and dispose medical equipment and supplies.
 - To provide health facility capital investment and life cycle management expertise.
 - To develop, deploy, operate, and sustain medical IM/IT systems.

VISION: We deliver the best medical solutions - for today and tomorrow - to enhance, to protect and to treat & heal the warfighter on point for the Nation: the backbone of the joint biomedical research and materiel community.

AREAS OF INTEREST:

- Military Infectious Diseases Research
 - Medical Readiness
 - Vaccines
 - Biotechnology
 - Prophylaxis/Treatment Drugs
 - Diagnostics/Prognostics
 - Vector Control
 - HIV Countermeasures
- Combat Casualty Care Research
 - Lightweight Medical Equipment
 - Medical C4isr
 - Trauma Care
 - Health Monitoring & Diagnostic Technology
- Military Operational Medicine Research
 - Soldier Selection and Sustainment
 - Soldier Performance
 - Warrior System Modeling
 - Health Hazards Protection
 - Health Monitoring
- Medical Chemical And Biological Defense Research
 - Medical Management of CW and BW Casualties
 - Medical Readiness
 - Drug Prophylaxes/Pretreatments
 - Vaccines/Therapies
 - Diagnostics/Prognostics
 - Biotechnology
- Congressionally Directed Medical Research Programs
 - Breast, Prostrate, And Ovarian Cancer Research
 - Neurofibromatosis Research
 - Osteoporosis And Bone Disease Research
 - Prion Diseases Research
 - Alcoholism Research
 - Lung Cancer Research

**VIII. U.S. ARMY MEDICAL RESEARCH AND MATERIEL COMMAND (USAMRMC), FORT DETRICK, MD
(CONTINUED)**

**SBIR POC: Mr. J.R. Myers, 301-619-7377, james.myers10@us.army.mil
Mr. Terry McCune, 301-619-2110, terry.mccune@us.army.mil**

- Telemedicine And Advanced Technology Research Center
 - Medical Telecommunications
 - Computer Software Engineering
 - Artificial Intelligence and Robotics
 - Medical Informatics and Information Technology
 - Medical Modeling, Simulation, and Training Technology
 - Field-based Diagnostic Tools
 - Orthotics, Prosthetics, and Rehabilitation
 - Bioinformatics
 - Computational Biology
 - Bio-Nanotechnology
 - Tissue Engineering Science
 - Human/Machine or Human/Computer Interaction
 - Psychology and Neurosciences
 - Hospital of the Future
 - Mobile Communications and Remote Sensors
-

IX. U.S. ARMY AVIATION & MISSILE RESEARCH, DEVELOPMENT & ENGINEERING CENTER (AMRDEC)

A. AVIATION AND MISSILE RESEARCH, DEVELOPMENT, AND ENGINEERING CENTER (AMRDEC), REDSTONE ARSENAL, AL

SBIR POC: Otho H. Thomas, JR., 256-842-9227, AMRDECMissileSBIR@amrdec.army.mil
Dawn M. Gratz, 256-842-8769, AMRDECMissileSBIR@amrdec.army.mil

MISSION: To plan, manage and conduct research, exploratory and advanced development, and provide one-stop life cycle engineering, technical, and scientific support for aviation and missile weapon systems and their support systems, UAV platforms, robotic ground vehicles, and all other assigned systems, programs and projects.

AREAS OF INTEREST:

- Systems Simulation And Development Directorate
 - aeroballistics
 - aerodynamics
 - system performance
 - statistical data and error analysis
 - system simulation
 - simulation theory and technology
 - distributed real-time simulation
 - virtual environment simulation
 - analog/hybrid computer & interface system
 - math model verification and validation techniques
 - real-time time-critical simulation technology
- Applied Sensors, Guidance & Electronics Directorate
 - Fiber Optics/MEMS
 - Fiber Optic Monitoring and Diagnostics Systems
 - Fiber Optic Data Link for Unmanned Systems
 - Miniature Sensor for Navigation, Health Monitoring and Diagnostics (MEMS)
 - Fiber Winding and Payout
 - Fiber Optic Gyros
 - Inertial Systems
 - GPS-Receivers/Antennas, Jamming Analysis
 - Inertial Measurement Units
 - Missile Laying and Aiming
 - Transfer Alignment
 - Accelerators
 - Controls
 - Electro-mechanical, Pneumatic, Hydraulic
 - Reaction, Thrust Vector Systems
 - Missile Launch Systems
 - Missile Power Supplies
 - Guidance/Control Theory and Techniques
 - Modern/Classical, Linear/Non-Linear, Digital and Optimal Control Techniques
 - Missile Autopilot Design and Evaluation
 - Precision Guidance with GPS Aided Inertial
 - Terminal Guidance Integration
 - Guidance Algorithms
 - Imaging Autotrackers
 - Missile Tracking Algorithms
 - Autotracker Processors
 - Fire Control Trackers
 - Fly Over Homing
 - Terminal Aimpoint Tracking

IX. U.S. ARMY AVIATION & MISSILE RESEARCH, DEVELOPMENT & ENGINEERING CENTER (AMRDEC)
(CONTINUED)

SBIR POC: Otho H. Thomas, JR., 256-842-9227, AMRDECMissileSBIR@amrdec.army.mil
Dawn M. Gratz, 256-842-8769, AMRDECMissileSBIR@amrdec.army.mil

- Propulsion and Structures Directorate
 - Propulsion
 - Solid, Liquid, and Air breathing Propulsion Technology
 - Propellants
 - Insensitive Munitions
 - Ignition Systems
 - Stockpile Reliability
 - Energetics Demilitarization and Reuse
 - Inert Components (Nozzles, Liners, Insulation and Cases)
 - Energy Management
 - Structures
 - Structural Analysis
 - Composite Structures
 - Warhead/Fuze Research
 - Robotics
 - Corrosion Prevention and Control
 - Active Protection Systems and Counter-APS
 - Advanced Kinetic Energy
 - Tactical Missile Launchers
 - Future Fighting Systems and Weapon Integration
- Advanced Science and Technology Directorate
 - Focal Point for Training and Doctrine Command Interfaces
 - Proof of Principle Experimentation
 - Initial Prototype/Integration
 - Advanced Concepts
 - Program Executive Offices/Project Managers Interface for Technology Transition and Insertion
 - Unmanned Systems
 - Army Transformation
 - Force Operating Capability Points of Contact
 - Army Technology Objectives Process
 - Program Objective Memorandum Planning
 - Databases
 - Army Science and Technology Plan
 - Technology Area Review and Assessment
 - Technology Reviews
 - Office of Research and Technology Applications
 - Technical Industrial Liaison Office
 - Small Business Innovation Research
 - Conferences
 - Cooperative Research and Development Agreements
 - Patents, Licenses, Intellectual Property
 - Memoranda of Agreement/Information Exchange Agreement/Data Exchange Agreements
 - Air Show Support
 - Database Management
 - Visits and Reviews (Senior National Representatives)
- Applied Technology Initiatives Directorate
 - Development and Integration Of Advanced Technologies for Army Missile Systems
 - Systems Engineering & Analysis Including use of Systems Engineering Tools [CORE, CRADLE, IDEF 0/1X/3, UML Modeling]
 - Conduct Experiments, Demonstrations, And Analyses To Transition Developed Technologies To A Validation Phase Decision Point In The Acquisition Process

IX. U.S. ARMY AVIATION & MISSILE RESEARCH, DEVELOPMENT & ENGINEERING CENTER (AMRDEC)
(CONTINUED)

SBIR POC: Otho H. Thomas, JR., 256-842-9227, AMRDECMissileSBIR@amrdec.army.mil
Dawn M. Gratz, 256-842-8769, AMRDECMissileSBIR@amrdec.army.mil

- Weapons Sciences Directorate
 - Lasers And Beam Weaponry
 - Nanoscience
 - Photonics And Optical Sciences
 - Chaos Control
 - Photonic Bandgap Materials
 - Multi-spectral dome materials
 - Quantum sciences

- Engineering Directorate
 - Producibility Engineering and Planning
 - Engineering Analysis
 - Engineering Support For Out Of Production Systems
 - Spare Parts Procurement/Supply Chain Management
 - Monitor Product Deliveries
 - Advanced Manufacturing Technologies (Processes Techniques, and Equipment) For Army Missile and Aviation Systems' Guidance/Propulsion, and Structures
 - Increased Productivity
 - Advanced Materials Processing and Fabrication Technologies
 - Non-Destructive Evaluation Technologies/Sensors
 - Manufacturing Research in Printed Circuit Boards and Microelectronics
 - Manufacturing Automation
 - Manufacturing Simulation
 - Enterprise Systems
 - Total Life Cycle Management (I.E. Develop, Upgrade, Rehost, Produce, and Sustain) For Test Program Sets (TPSS)
 - Directed Energy and Power (Batteries)
 - Soldering Technologies
 - Shelf Life/Reliability Of New Technologies
 - Logistics R&D
 - Prognostic (to include Mechanical/Electronics/Avionics)
 - Quality Engineering Technologies
 - Statistically Process Control
 - Production Line Inspection and Test Technologies
 - Availability/Obsolescence Management
 - Electronics Reliability
 - Electronics Technology Reliability
 - Manage, Staff and Operate the U.S. Army Prototype Integration Facility
 - Design, Development, Qualification, Fabrication, and Integration of Prototype and Production Weapon Subsystems and System Hardware Components
 - Rapid Response to Technical Problems through Agile Development and Rapid Acquisition, Prototyping, Manufacture, Integration and Fielding Warfighting, Homeland Defense and Other Federal Systems
 - Wireless Technologies (to include diagnostics and sensors)
 - Diagnostics
 - Health Monitoring Systems
 - Systems Engineering/Systems Engineering Management tools and techniques
 - Value Engineering/Life Cycle Cost Reduction
 - Spare Parts Engineering and Validation
 - Industrial Base Analysis
 - Health Usage and Monitoring Systems
 - Condition-Based Maintenance Systems
 - Reliability Technologies Improvement projects

IX. U.S. ARMY AVIATION & MISSILE RESEARCH, DEVELOPMENT & ENGINEERING CENTER (AMRDEC)
(CONTINUED)

B. AVIATION AND MISSILE RESEARCH, DEVELOPMENT, AND ENGINEERING CENTER (AMRDEC), FT. EUSTIS, VA, MOFFETT FIELD, CA.

SBIR POC: PJ Jackson, 757-878-5400, pj.jackson1@us.army.mil

MISSION: Transition critical technologies that enhance and sustain Army aviation as the premiere land force aviation component in the world.

VISION: Be recognized as the leader within the Department of Defense (DoD) for the research, development, and engineering of rotorcraft and tactical Unmanned Aerial Vehicle (UAV) systems and technology; known for the quality of our work and excellence of our people.

OBJECTIVES:

- Develop, demonstrate, and apply critical technologies that enhance the capability, affordability, readiness, and safety of DoD aviation systems.
- Provide quality and timely engineering services and rapid prototyping support to army program executive offices, us special operations command, and other customers.
- Support worldwide contingency operations through the expedited fabrication, application, and support of innovative material solutions.

AREAS OF INTEREST:

- Advanced Materials Applications For Rotorcraft Engines And Drives
 - Aeromechanics
 - Computational Fluid Dynamics
 - Cockpit Information Management Systems
 - Flight Controls/Vehicle Management Systems
 - Human Systems Interface
 - Reliability, Maintainability Issues
 - Safety And Survivability Issues For Rotorcraft
 - Structures And Materials
 - System Integration For Rotorcraft
 - Turboshaft Engine Technology For Rotorcraft
 - Advanced Rotor/Airframe Design Concepts
 - Smart Materials Applications To Rotor And Airframe Design
 - Cargo Handling Systems
 - Ground Support Equipment For Rotorcraft
-

X. SPACE AND MISSILE DEFENSE COMMAND (SMDC), HQ ARLINGTON, VA

SBIR POC: Denise Jones, 256-955-0580, Denise.Jones@smdc.army.mil

MISSION: SMDC, as the Army service component to USSTRATCOM, conducts space operations and provides planning, integration, control and coordination of Army forces and capabilities in support of USSTRATCOM missions; serves as proponent for space and ground-based midcourse defense and as army operational integrator for global missile defense; conducts mission related research, development, and acquisition in support of army title 10 responsibilities and serves as the focal point for desired characteristics and capabilities in support of USSTRATCOM missions.

AREAS OF INTEREST:

- Electromagnetic Technologies
 - Radar Performance Improvements
 - Advanced Counter-Countermeasure Technology
 - Development Of A Miniature, Ultra-Fast Plasma Limiter To Isolate Sensitive Receivers From Electronic Warfare Environments
 - Advanced Interceptors
 - Kinetic Energy Intercept, Both Endoatmospherically And Exoatmospherically
 - Size/Weight/Cost Reductions And Improve Performance Of Future Systems
 - Future Weapon System Concept Development
 - Seeker Technology
 - Propulsion And Divert Enhancement Devices
 - Communications
 - Power
 - Enhanced Warhead Capabilities
 - Computer Technologies
 - State-Of-The-Art Interface Effectors With Total Spectrum Information Presentation
 - Autonomous Intelligent Agents
 - Self-Learning Decision Aids
 - Distributed Heterogeneous High-Speed Processors And Databases
-

XI. SFC PAUL RAY SMITH SIMULATION AND TRAINING TECHNOLOGY CENTER (STTC), ORLANDO, FLORIDA

SBIR POC: Thao Pham, 407-384-5460, phuongthao.pham@us.army.mil

MISSION: Provides simulation expertise, research and transition of simulation enabled learning technologies for training, test and training instrumentation, mission planning and mission rehearsal systems.

AREAS OF INTEREST:

- **Real-Time Human-In-The-Loop Simulation:** This area includes technologies that support training, learning and mission rehearsal. It includes human, agent, and team interfaces, sensory stimulation, and tracking technologies for systems of systems approach to linked, distributed, or embedded systems
 - **Behavioral Representation:** Artificial intelligence technologies are widespread among the STTC's missions (embedded training, medical training, agent simulations, advanced learning environments, etc.) and include computer-generated forces, intelligent tutoring systems, composable behavior technologies, and simulation management technologies.
 - **Shared Simulation Environments:** This area includes test and training environments for missions like urban operations, advanced learning, embedded training, and distributed development. It includes technologies for the rapid construction of urban environments and multi-elevation structures. It includes cross-domain technologies like augmented reality and architectures and standards for distributed simulation environments.
 - **Support Training Transformation (T2):** Providing simulation technologies for a capabilities-based learning environment for the department of defense in support of national security requirements.
 - Joint Knowledge Development and Distribution Capability
 - Joint National Training Capability
 - Joint Assessment and Enabling Capability
-

XII. U.S. ARMY TANK AUTOMOTIVE RESEARCH, DEVELOPMENT, AND ENGINEERING CENTER (TARDEC)

**SBIR POC: Jim Mainero, 586-574-8646, james.mainero@us.army.mil
Martin Novak, (586) 574-8730, martin.j.novak@us.army.mil**

The U.S. Army Tank-Automotive Research, Development and Engineering Center (TARDEC), is the nation's laboratory for advanced military automotive technology. Headquartered at the Detroit Arsenal, Warren, MI, TARDEC is located in the heart of the world's automotive capitol.

MISSION: Provide full service life cycle engineering support to our TACOM LCMC Customers (PEO GCS, PEO CS&CSS, ILSC) and PM FCS (BCT), to develop and integrate the right technology solutions to improve the effectiveness of the current force and realize the superior capability of the future force to facilitate Army transformation.

VISION: Be the first choice of technology and engineering expertise for ground vehicle systems and support equipment – today and tomorrow.

TARDEC is responsible for engineering support to more than 2,800 Army systems and many of the Army's and DoD's top joint warfighter development programs:

PRODUCT LINES

- Combat and Tactical Vehicles
- Logistics Equipment
- Water Generation and Purification
- Fuels and Lubricants
- Military Bridging
- Fuel and Water Storage, Distribution and Quality Surveillance Equipment
- Countermine Equipment

TECHNOLOGY THRUSTS

- Vehicle Survivability Systems
- Water Generation and Purification
- Unmanned Vehicle Developments
- Advanced Vehicle Concepts
- Fuel and Lubricant Research
- Crew Station Integration and Automation
- Software/Vetronics
- Next Generation Software
- Hybrid-Electric Power
- Propulsion
- Fuel Cells
- Collaborative Environments
- Physical Prototyping
- Advanced Materials
- Analytical and Physical Simulation
- High Performance Computing

XII. U.S. ARMY TANK AUTOMOTIVE RESEARCH, DEVELOPMENT, AND ENGINEERING CENTER (TARDEC)
(CONTINUED)

SBIR POC: Jim Mainero, 586-574-8646, james.mainero@us.army.mil
Martin Novak, (586) 574-8730, martin.j.novak@us.army.mil

STRATEGIC TECHNOLOGY AREAS

- Unmanned Ground Vehicle Robotics
 - Power & Energy
 - Advanced Power Systems
 - Energy Storage
 - Fuel Strategy
 - Vehicle Electronics
 - On-board Prognostics/Diagnostics
 - Condition-based Maintenance
 - Logistics
 - Leverage industry technologies to enhance TARDEC programs
 - Lifecycle Data Management
-

XIII. U.S. ARMY TEST AND EVALUATION COMMAND (ATEC), ABERDEEN PROVING GROUND, MD

SBIR POC: Nancy Weinbrenner, 703-681-0573, nancy.b.weinbrenner@us.army.mil
Michael Orlowicz, 410-278-1494, michael.orlowicz@us.army.mil

MISSION: The U.S. Army Developmental Test Command (DTC) is the developmental test arm of the U.S. Army Test And Evaluation Command (ATEC). DTC is the Army's premier material developmental testing organization for weapons and equipment. DTC offers a full range of test services, including providing unbiased test data on the technical feasibility of early concepts, determining systems performance and safety, assessing technical risks during system development, confirming designs, and validating manufacturers' facilities and processes at both system and component level. Its testing services are extended to all of DoD, other federal agencies, state and local governments, foreign and allied governments and, private industry.

AREAS OF INTEREST:

- Provides developmental testing for Army systems in all environments, provides system safety verification prior to test/use by the soldier, develops test technology, and manages 11 test centers/sites.
 - Aberdeen test center, Aberdeen Proving Ground, MD -- direct fire, live fire, vehicles, small arms, general equipment, and individual equipment testing
 - Redstone Technical Test Center, Redstone Arsenal, AL – small missiles, rockets, guidance systems, lightning effects, high explosive warhead & fuze testing
 - Aviation Technical Test Center, Fort Rucker, AL -- aircraft systems and airworthiness testing
 - White Sands Missile Range, NM – missile, ballistic missile defense, nuclear effects, and electronic warfare systems testing
 - WSMR-Electronic Proving Ground & Satellites
 - Electronic Proving Ground, Fort Huachuca, AZ – Command, Control, & Communications (C3) And Electromagnetic Effects Testing
 - EPG Fort Lewis Field Office, Fort Lewis, WA -- Software Testing
 - EPG Fort Hood Field Office, Fort Hood, TX -- C3i Testing
 - Dugway Proving Ground, UT -- Chemical/Biological Defense Systems Testing
 - YUMA Proving Ground & Satellites, Yuma, AZ -- Indirect Fire, Air Delivery, Air Armaments, Mines/Countermines, And Natural Environments Effects Testing
 - Cold Regions Test Center, Fort Greeley, AK – Cold Weather Effects Testing
 - Tropic Test Site, HI – Hot/Wet Environmental Effects Testing
 - Test Technology Development, Acquisition, And Sustainment
-

PEO AVIATION
Mr. Paul Bogosian
COM: 256-313-4000
DSN: 897-4000
Admin: Ms. Linda Cosgray
XO: MAJ Joe Hoecherl x4002

PEO STRI
Dr. James T. Blake
COM: 407-384-3524
DSN: 970-3524
Admin: Ms. Janine Daniels
XO: None

ASA(ALT) / AAE
Honorable Claude M. Bolton, Jr.
COM: 703-695-6153 DSN: 225-6153
Admin: Ms. Karen Boulware XO: Mr. Robert Riddick x 6742
CoS: COL Andy Mills x5749

PEO C3T
MG Michael Mazzucchi
COM: 732-532-1515
DSN: 992-1515
Admin: Ms Kathy Crifasi
XO: Ms. Deborah Clevenger x1517

PEO MSL&SPACE
BG Mike Cannon
COM: 256-876-0714
DSN: 746-0714
Admin: Ms. Ann Battcher
XO: Terry Bradford x0715

Military Deputy
LTG Joseph L. Yakovac
COM: 703-697-0397 DSN: 227-0397
Admin: Ms. Tracey Beaulieu
XO: COL Dion King x0356

Principal Deputy
Mr. Dean G. Popps
COM: 703-693-6805 DSN: 223-6805
Admin: Ms. Lolita Gaitan
XO: LTC Adam Crist x6743

JPEO CBD
MG Stephen V. Reeves
COM: 703-681-9600
DSN: 761-9600
Admin: Ms. Karen Huff
XO: Ms. Lauren Ishmael x5195

PEO CS&CSS
BG John Bartley
COM: 586-574-5105
DSN: 786-5105
Admin: Sharon Elya

PEO SOLDIER
BG R. Mark Brown
COM: 703-704-3446
DSN: 654-3446
Admin: N/A
XO: Ms. Annie McNeil x0228

BC
COL Harold Greene
COM: 732-532-4041
DSN: 992-1515

Lower Tier
COL John K. Vaughn
COM: 256-955-3240
DSN: 645-3240

ConSim
COL Kenneth Wheeler
COM: 407-384-3650
DSN: 970-3650

CATT
COL Craig Langhauser
COM: 407-384-3600
DSN: 970-3600

ITTS
COL David Lockhart
COM: 407-384-5250
DSN: 970-5250

TRADE
COL James Ralph III
COM: 407-384-5200
DSN: 970-5200

FF(S)
Mr. Michael Verville
COM: 407-384-3560
DSN: 970-3560

CBMS
COL David Williams
COM: 301-619-7681
DSN: 343-7681

TAC Vehicles
COL Scott Kidd
COM: 586-574-5569
DSN: 786-5569

Soldier Warrior
COL Dick Hansen
COM: 703-704-3819
DSN: 654-3819

TRCS
Col William Hoppe
COM: 732-427-3073
DSN: 992-1515

CMDSPO
COL Edward Mullin
COM: 256-876-4927
DSN: 746-4927

NBCCA
COL Kyle Burke
COM: 410-436-2566
DSN: 584-2566

Force Projection
COL Timothy Goddette
COM: 586-574-6883
DSN: 786-6883

Soldier Weapons
COL Carl Lipsit
COM: 973-724-6560
DSN: 880-6560

LAND WARNET
COL Angel Colon
COM: 732-532-4740
DSN: 992-1515

PFRMS
COL Earnest Harris
COM: 256-876-1195
DSN: 746-1195

Guardian
COL Mark Malatesta
COM: 703-681-0612

Future TAC Systems
COL John Myers
COM: 586-574-6129
DSN: 312-786-3199

Soldier Equipment
COL John McGuinness
COM: 703-704-3322

FBCB2
COL Ray Montford
COM: 732-427-3237
DSN: 992-1515

JAMS
COL Michael Cantor
COM: 256-876-1141
DSN: 746-1141

JTRS-HMS
COL Daniel Hughes
COM: 732-642-7898
DSN: 992-1515

NLOS-LS
COL Doug Dever
COM: 256-955-0190
DSN: 746-0190

MEP
Mr. Bob Szerszynski
COM: 703-704-3147
DSN: 654-3147

PEO EIS
Mr. Kevin Carroll
COM: 703-806-4235
DSN: 656-4235
Admin: Ms. Henney Phillips
XO: N/A

PEO GCS
Mr. Kevin Fahey
COM: 586-574-6662
DSN: 786-6662
Admin: Ms. Deborah Lafleur
Admin: Ms. Betty Martin
XO: Mr. Steve Rienstra

PM FCS (BCT)
MG Charles A. Cartwright
COM: 314-232-1266
DSN: None
Admin: Ms. Gracie Harris
CoS: COL Charles Jorgenson

PEO IEW&S
Mr. Edward T. Bair
COM: 732-427-2153
DSN: 987-2153
Admin: Ms. Trish Townsend
XO: MAJ James Ross x5522

JPEO JTRS
Mr. Baumann, SES (USN)
COM: 619-524-7358
Admin: Mary Ellen Reniere
619-524-7035
Deputy: Howard Pace
619-524 4498

PEO AMMO
MG Paul S. Izzo
COM: 973-724-7101
DSN: 880-7101
Admin: Ms. Patty Banta
XO: CPT Theodore Wiley x9452

DCASS
COL Scot Miller
COM: 732-532-7910
DSN: 992-7910

HBCT
COL Larry Hollingsworth
COM: 586-574-5630
DSN: 786-5630

Manned SI
COL Charles Coutteau
COM: 586-574-8237
DSN: 786-8237

TENCAP
COL Jess Scarbrough
COM: 703-428-8801
DSN: 328-8801

CMA
Mr. Mike Parker
COM: 410-436-4364
DSN: 584-4364
Admin: Ms. Jill Sohl
XO: MAJ Micheal Bush

MAS-Direct Fire
COL Mark Rider
COM: 973-724-4622

DCATS
COL Gale Harrington
COM: 732-532-7920
DSN: 992-7920

SBCT
COL Pete Fuller
COM: 586-753-2000
DSN: 786-2000

Technologies
Dr. Myra Gray
COM: 703-676-0500

DCGS-A
COL Hank Abercrombie
COM: 732-427-5165
DSN: 987-5165

ECW
Mr. Kevin Flamm
COM: 410-436-3447
DSN: 584-3447
Admin: Ms. Elizabeth

Close Combat
COL John Koster
COM: 973-724-7041
DSN: 880-7041

LIS
COL David Coker
COM: 804-734-7665
DSN: 687-7665

MBE
COL Raymond Jones
COM: 586-574-8209
DSN: 786-8209

Network SI
COL Michael Williamson
COM: 732-427-7402
DSN: 987-7402

NAV Systems
COL Phillip Loschiavo (RC)
COM: 310-363-2922
DSN: 883-2922

ATA
COL Jesse Barber
COM: (410) 436-1438
DSN: 584-1438

CAS-Indirect Fire
COL Ole Knudson
COM: 973-724-7041
DSN: 880-7041

LMP
COL Scott Lambert
COM: 732-427-1062
DSN: 992-1062

Spin Out
COL Chris DeLuca
COM: 703-614-8406

NV/RSTA
COL Glen Lambkin
COM: 703-704-3450
DSN: 654-3450

ACS
COL Robert C. Carpenter
COM: 732-427-1999
DSN: 992-1999

This chart is intended as a quick reference guide to Active Army Project Manager (COL) Central Select List (CSL) positions only.

POC for this chart is Mr. Christian Fraley, USAASC/SAIC
Christian.Fraley@us.army.mil
As of 28 August 2006

XIV. PEO AMMUNITION

SBIR POC: Jessica Woo, 973-724-4908, jessica.woo@us.army.mil

A. PM CLOSE COMBAT SYSTEMS

MISSION: Maintaining freedom to move on the battlefield is mission-essential for Army ground forces. The vision and mission of PM Close Combat Systems is to ensure that soldiers have this capability by developing and supporting technologically advanced in networked munitions, countermine, and demolitions, protect force, explosive ordnance disposal equipment, grenades, pyrotechnics, and shoulder launched munitions.

AREAS OF INTEREST: Technologies Associated With The Following:

- Networked Munitions
- Countermine Systems And Explosive Ordnance Disposal Equipment
- Demolitions
- Non-Lethal Systems And Munitions
- Grenades
- Pyrotechnics
- Shoulder Launched Munitions

B. PM COMBAT AMMUNITION SYSTEMS–INDIRECT FIRE

MISSION: PM Combat Ammunition Systems (PM CAS) performs life-cycle management of gun-launched indirect fire munitions, mortar weapons and mortar fire control systems including related fuzes, fuze setters, propellants, explosive fills, software, hardware and electronics. Life-cycle management includes development, integration, test, production, remanufacturing, and sustainment. PM CAS' vision is to deliver conventional and leap-ahead munitions combat power to warfighters, giving them the materiel edge over our nation's real and potential adversaries.

AREAS OF INTEREST: Technologies Associated With The Following:

- Precision-Guided Munitions
- Smart Munitions
- Conventional Munitions
- Mortar Weapon Systems
- Mortar Fire Control Systems
- Fuzes And Fuze Setters

C. PM JOINT SERVICES

MISSION: The vision of PM joint services (PM JS) is to create an acquisition “pipeline” that rapidly provides the warfighter with conventional ammunition. This necessitates an acquisition approach that delivers rapid, affordable conventional ammunition and is flexible, responsive and proactive while improving the health of the industrial base and meets and exceeds the services expectations. Continual improvement to the customers total munitions delivery time, including acquisition and production cycle time, is an overarching objective of PM JS.

AREAS OF INTEREST:

- Procurement Of Other Services' Unique Conventional Ammunition (e.g., Bombs, Pyrotechnics, Propellants, Navy Gun Ammo, Explosives)
- Demilitarization of Conventional Ammunition
- Execution Of SMCA Industrial Base Functions

XIV. PEO AMMUNITION (CONTINUED)

SBIR POC: Jessica Woo, 973-724-4908, jessica.woo@us.army.mil

D. PM MANEUVER AMMUNITION SYSTEMS–DIRECT FIRE

MISSION: The mission of PM Maneuver Ammunition Systems (PM MAS) is to equip warfighters, mounted and dismounted, with all calibers of direct fire ammunition for the Army’s current, Stryker, and future forces. Under the single manager for conventional ammunition responsibilities, PM MAS also procures ammunition for the Navy, Air Force, and Marines. PM MAS provides ammunition for ground combat platforms, helicopters, ships, and high performance aircraft. The PM does this through life cycle program management of small, medium, and large caliber ammunition to include smart munitions.

AREAS OF INTEREST: Technologies Associated With The Following:

- Small Caliber
 - Medium Caliber
 - Large Caliber
 - Smart Munitions
-

XV. PEO AVIATION

SBIR POC: Rusty Graves, 256-842-4999, rusty.graves@peoavn.army.mil
Iris Pueuitt, 256-313-4975, iris.prueitt@us.army.mil
Layne Merritt, 256-313-4976, layne.merritt@us.army.mil

A. PM APACHE ATTACK HELICOPTER

MISSION: PM Apache Attack Helicopter is responsible for planning, directing, and controlling all phases of research, development, procurement, production, distribution, logistic support, fielding, and fiscal and budget management required for the AH-64A Apache and AH-64D Longbow Advanced Attack Helicopters.

B. PM AVIATION SYSTEMS

MISSION: PM Aviation Systems (PM AS) is charged with responsibility for the program life cycle management for all legacy scout attack helicopters; fixed wing aircraft; Air Traffic Control (ATC) Systems; Aviation Ground Support Equipment (AGSE); and Aviation Mission Equipment (AME). In addition, other responsibilities of PM include operations of the Army's Aviation Corrosion Control and Non-Destructive Testing Centers Of Excellence (COE) within AGSE, and the development, coordination, and management of all aviation digitization programs.

C. PM CARGO HELICOPTER

MISSION: The mission of PM Cargo Helicopter is to establish and maintain a dynamic learning organization which provides the warfighters with affordable world class heavy lift cargo helicopters and related service which are continually improved to meet user needs while balancing life cycle cost reductions with increases in operational readiness. Pm Cargo Helicopter is responsible for the life cycle planning, direction, execution, and control of tasks and designated associated resources involved in deployment, qualification, test, production, sustainment, distribution, and logistics support of the worldwide CH-47 fleet.

D. PM UNMANNED AERIAL VEHICLE SYSTEMS

MISSION: The mission of PM Unmanned Aerial Vehicle Systems (PM UAVS) is to provide a total Army perspective for the life cycle management of the Army's Unmanned Aerial Vehicle (UAV) program including development, acquisition, testing, systems integration, product improvements, production, fielding, and logistical support. PM UAVs directly supports the core mission of army unmanned aerial vehicles to provide tactical commanders near-real time, highly accurate, reconnaissance, surveillance and target acquisition. This mission is growing to include weaponization, communications relay, specialty payloads, small unmanned aerial vehicles, and the linkage to manned aircraft.

E. PM UTILITY HELICOPTERS

MISSION: THE UH-60 is the Army's utility helicopter. The IS Black Hawk used for multiple combat missions in support of the Joint Force Commander. Its primary mission, air assault, transports infantry soldiers and light artillery directly into battle positions. In its general support role, the Black Hawk is used to move personnel and cargo across all echelons of the battlefield, from the front lines to the rear areas. The UH-60 will also serve as the host aircraft for the new Army Airborne Command and Control System (A2C2S). In special operations, the MH-60 platform is used as both an assault and armed defensive aircraft. The UH-60 is interoperable with joint forces, and is in use in the Navy and Air Force.

XVI. JPEO CHEMICAL BIOLOGICAL DEFENSE (CBD)

SBIR POC: Larry Pollack, 703-767-3307, larry.pollack@dtra.mil

Joint Science and Technology Office for Chemical and Biological Defense (JSTO-CBD)

The Joint Science and Technology Office for Chemical and Biological Defense (JSTO-CBD) provides the management for the Science and Technology component of the Chemical and Biological Defense Program (CBDP). Technologies developed under the SBIR program have the potential to transition to the Joint Program Executive Office for Chemical and Biological Defense (JPEO-CBD) when the appropriate level of technology maturity has been demonstrated. The JSTO-CBD Science & Technology programs and initiatives are improving defensive capabilities against Chemical and Biological Weapons.

A. JPM BIOLOGICAL DEFENSE

MISSION: The JPM-Biological Defense (JPM-BD) mission is to develop, produce, field and sustain world-class biological defense technology and equipment for the Joint Services. In partnership with the civilian sector, academia and industry, the JPM-BD will ensure that its biological defense products and services are developed at the best possible time, and can be sustained in operation at the lowest life cycle cost.

JOINT BIOLOGICAL POINT DETECTION SYSTEM (JBPDs): To detect, identify, sample, collect and communicate the presence of biological warfare agents to enhance the survivability of U.S. Forces.

JOINT BIOLOGICAL STANDOFF DETECTION SYSTEM (JBSDS): To provide a biological detection network capable of near real time detection and warning, theater wide, to limit the effects of biological agent hazards at the tactical and operational levels of war.

JOINT PORTAL SHIELD (JPS): Provide Combatant Commanders a "smart" network of biological detection sensors to provide force protection, and protect high value fixed site assets (air and port facilities).

B. JPM CHEMICAL BIOLOGICAL MEDICAL SYSTEMS

MISSION: The Chemical Biological Medical Systems Joint Project Management Office (**CBMS-JPMO**) is responsible for the development, procurement, fielding, and sustaining of premier medical protection and treatment capabilities against chemical and biological warfare agents. Our products are all submitted through the U.S. Food and Drug Administration (FDA) licensing or approval processes. The CBMS-JPMO is comprised of a headquarters and support element and two Joint Product Management Offices: the Joint Vaccine Acquisition Program (JVAP) and the Medical Identification and Treatment Systems (MITS).

JOINT VACCINE ACQUISITION PROGRAM (JVAP): The mission of the Joint Vaccine Acquisition Program (**JVAP**) is to develop, produce and stockpile FDA licensed vaccine products to protect the war fighter against biological warfare agents. JVAP consolidates the Department of Defense's efforts for the advanced development, testing, FDA licensing, production and storage of Biological Defense vaccines.

- Anthrax Vaccine Adsorbed (AVA)
- Plague Vaccine
- Recombinant Botulinum Bivalent (AB) Vaccine (rBot AB)
- Venezuelan Equine Encephalitis (VEE) V3526 Vaccine
- Vaccinia Immune Globulin (VIG), Intravenous

MEDICAL IDENTIFICATION AND TREATMENT SYSTEMS (MITS): The Medical Identification and Treatment Systems (**MITS**) centrally manages the development, acquisition and fielding of products used for the prophylaxis, treatment, and diagnosis of chemical and biological warfare agent exposure in U.S. Service members. MITS products range from specific hardware devices which will enable medical personnel to diagnose specific biological warfare agent exposure, to drugs which will prevent or mitigate the actions of chemical or biological agents.

- Advanced Anticonvulsant System (AAS)
- Antidote Treatment - Nerve Agent, Autoinjector (ATNAA)
- Convulsant Antidote for Nerve Agents (CANA)
- Critical Reagents Program (CRP)
- Joint Biological Agent Identification and Diagnostic System (JBAIDS)
- Medical Aerosolized Nerve Agent Antidote (MANAA)
- Skin Exposure Reduction Paste Against Chemical Warfare Agents (SERPACWA)

XVI. JPEO CHEMICAL BIOLOGICAL DEFENSE (CBD) (CONTINUED)

SBIR POC: Larry Pollack, 703-767-3307, larry.pollack@dtra.mil

C. JPM COLLECTIVE PROTECTION

MISSION: If units are attacked or are forced to occupy or traverse Chemical/Biological (CB) contaminated environments, individual and collective protection systems provide the warfighter life-sustaining and continued operational capabilities.

Individual protection equipment includes protective masks, suits, boots, and gloves.

Collective protection equipment includes two general categories: stand-alone shelters and integrated systems that provide contamination-free, environmentally-controlled surroundings for personnel to perform their missions. Collective protection, i.e., overpressure, can be applied to mobile and fixed command posts, medical facilities, rest and relief shelters, buildings/fixed sites, vehicles, aircraft, and ships.

MOBILE COLLECTIVE PROTECTION:

- M2A2 Air Purifier and M1A1-19 Precleaner and Particulate Filter
- M8A3 Gas-Particulate Filter Unit
- M13A1 Gas Particulate Filter Unit (GPFU)
- M14 Gas-Particulate Armored Ambulance Filter Unit

TRANSPORTABLE COLLECTIVE PROTECTION:

- Joint Expeditionary Collective Protection (JECP)
- Chemical Biological Shelters (CBPS)
- Collective Protection System for the Modular General Purpose Tent System (MGPTS)
- Collectively Protected Small Shelter System (CP-SSS)
- M20 Simplified NBC Collective Protection Equipment
- M20A1 Simplified Collective Protection Equipment (SCPE)
- M28 Collective Protection Equipment (CPE)
- Collectively Protected Field Hospital Program:
- Modular Collective Protective Equipment:

FIXED COLLECTIVE PROTECTION:

- M49 Fixed Installation Filter

SHIPBOARD COLLECTIVE PROTECTION:

- Shipboard Collective Protection Systems (CPS)
- Collective Protection System (CPS) Backfit Program

FILTERS:

- Hermetically Sealed Filter Canister (200 CFM)
- M12A2 Gas Filter (12 CFM)
- M13 Particulate Filter (12 CFM)
- M18A1 Gas Filter (10 CFM)
- M19 Particulate Filter (20 CFM)
- M48A1 Gas Particulate Filter
- M98 Gas-Particulate Filter

PRODUCT IMPROVEMENT PROGRAM

- Joint Collective Protection Equipment (JCPE)

XVI. JPEO CHEMICAL BIOLOGICAL DEFENSE (CBD) (CONTINUED)

SBIR POC: Larry Pollack, 703-767-3307, larry.pollack@dtra.mil

D. JPM DECONTAMINATION

MISSION: In the event that contamination cannot be avoided, personnel and equipment must be decontaminated in order to reduce and/or eliminate hazards after chemical and biological agent employment. A family of decontaminants and applicators, equipment, and procedures are under development for decontaminating mission critical areas within large area ports, airfields, and other fixed sites, which may be targeted for persistent agent contamination. Decontamination systems provide the Joint Force a regeneration capability for units that become contaminated. Modular decontamination systems have been developed to provide decontamination units with the capability to tailor their equipment to support specific missions.

JOINT SERVICE SENSITIVE EQUIPMENT DECONTAMINATION (JSSED): Neutralize the effects of chemical and biological agents on sensitive equipment.

SORBENT DECONTAMINATION SYSTEMS (SDS): Replace the M11/M13 DAP and associated DS2 used in Operator Spraydown (Immediate Decon) with a reactive neutralizing sorbent powder.

JOINT SERVICE FAMILY OF DECONTAMINATION SYSTEMS (JSFDS): To develop chemical and biological decontamination/application systems for equipment, wounded and non-wounded personnel.

JOINT PLATFORM INTERIOR DECONTAMINATION (JPID): Joint Force personnel will employ JPID to conduct immediate, operational and thorough decontamination of vehicles, mobile maintenance facilities, aircraft and shipboard interiors, to include sensitive equipment that cannot be removed, in both CBRN hostile and non-hostile environments.

XVII. JPEO CHEMICAL BIOLOGICAL DEFENSE (CBD) (CONTINUED)

SBIR POC: Larry Pollack, 703-767-3307, larry.pollack@dtra.mil

E. JPM GUARDIAN

MISSION: The mission of JPM Guardian is to: provide an effective Chemical, Biological, Radiological, and Nuclear (CBRN) protection, detection, identification and warning system for installation protection, ensure integration of CBRN network with existing Command, Control, Communications, Intelligence (C3I) capabilities to provide effective information management, provide a capability that will allow for rapid restoration of critical installation operations, protect DoD civilians, contractors and other persons working or living on U.S. Military installations and facilities, and equip and support Coalition Support Teams, Installation Support Teams, Regional Response Teams and recon/decon teams.

INSTALLATION PROTECTION PROGRAM (IPP): Constitutes one of DoD's first efforts to field a full spectrum of NBC installation protection capabilities designed as a family of system (FoS) to military installations and DoD-owned or leased facilities.

- **Unified Command Suite:** The Unified Command Suite (UCS) vehicle is a self-contained, stand-alone C-130 air mobile communications platform intended to provide both voice and data communications capabilities to Civil Support Team (CST) Commanders. The UCS consists of a combination of Commercial off the shelf (COTS) and existing Government off the shelf (GOTS) communications equipment (both secure and non-secure data) to provide the full range of communications necessary to support the CST mission. It is the primary means of reach back communications for the Analytical Laboratory System (ALS) for the CSTs, and acts as a command and control hub to provide a common operational picture for planning and executing an incident response.
- **Analytical Laboratory System:** The Analytical Laboratory System (ALS) is a C-130 air transportable system that uses commercial-off-the-shelf (COTS) equipment that can analyze Chemical Warfare (CW) agents, Toxic Industrial Materials (TIM), Toxic Industrial Chemicals (TIC) and Biological Warfare (BW) agents. The ALS has the capability of establishing communications through the Unified Command Suite (UCS) to local, state, federal laboratories and other Agencies for confirmatory analysis of suspect agent.

XVI. JPEO CHEMICAL BIOLOGICAL DEFENSE (CBD) (CONTINUED)

SBIR POC: Larry Pollack, 703-767-3307, larry.pollack@dtra.mil

F. JPM INDIVIDUAL PROTECTION

MISSION: The Chemical Biological Defense Program (CBDP) is pursuing mask technologies that provide greater user comfort, reduce breathing resistance, and improve compatibility with combat weapon systems; and suit technologies that will result in lighter, less burdensome, but equally protective next generation suits for ground and aviation personnel. Also, the CBDP pursues technology advances that improve generic Chemical Biological protective filters and fans, and advances that reduce weight, volume, cost, logistics, and manpower requirements.

PROTECTIVE SUITES:

- Joint Service Lightweight Integrated Suit Technology (JSLIST) Ensemble
- Joint Protective Aircrew Ensemble (JPACE)

PROTECTIVE MASKS:

- XM52 Joint Services Chemical Environment Survivability Mask (JSCESM)
- XM50/51 Joint Services General Purpose Mask (JSGPM)
- M40/42 Series Mask Program
- M45 Mask
- M48 Chem Bio Apache Aviator Mask
- Joint Services Aircrew Mask (JSAM)
- Aircrew Eye Respirator Protection (AERP)
- A/P22P-14V Respirator Assembly (AP22P)

PROTECTIVE MASK TESTERS:

- Joint Services Mask Leakage Tester (JSMLT)
- M41 Protection Assessment Test System (PATS)

PROTECTIVE BOOTS & SOCKS:

- Multipurpose Overboot Program (MULO)
- Alternative Footwear Solutions Program (AFS)
- Multipurpose Protective Sock Program (MPS)

PROTECTIVE GLOVES:

- Joint Block 1 Glove Upgrade Program (JB1GU)
- Joint Block 2 Glove Upgrade Program (JB2GU)

VII. JPEO CHEMICAL BIOLOGICAL DEFENSE (CBD) (CONTINUED)

SBIR POC: Larry Pollack, 703-767-3307, larry.pollack@dtra.mil

G. JPM INFORMATION SYSTEMS

MISSION: The mission of the JPM Information Systems (JPM-IS) is to provide the information architecture and applications for shaping the battle space against the chemical and biological threat. The JPM-IS provides the Warfighter with integrated early warning capability, an accredited hazard prediction model, state-of-the-art consequence management, and course of action analysis tools.

JOINT EFFECTS MODEL (JEM): Provide a single, validated capability to predict and track Nuclear, Biological, Chemical (NBC) and Toxic Industrial Chemical/Material (TIC/TIM) events and effects.

JOINT OPERATIONAL EFFECTS FEDERATION (JOEF): Joint service program endorsed by the DoD that provides an operational requirements modeling and simulation system to enable warfighters and war planners to accurately predict chemical/biological environment effects on personnel, equipment and operations.

THE JOINT WARNING AND REPORTING NETWORK (JWARN): Provide the Joint Forces with a comprehensive analysis and response capability to minimize the effects of hostile Nuclear, Biological, and Chemical (NBC) attacks as well as accidents and incidents.

XVI. JPEO CHEMICAL BIOLOGICAL DEFENSE (CBD) (CONTINUED)

SBIR POC: Larry Pollack, 703-767-3307, larry.pollack@dtra.mil

H. JPM NUCLEAR, BIOLOGICAL AND CHEMICAL CONTAMINATION AVOIDANCE

MISSION: The Chemical Biological Defense Program pursues technologies incorporating and integrating standoff and early warning; reconnaissance; biological and chemical point detection; and information processing. The technology focus is on increased detection sensitivity, lower detection thresholds, specificity across the evolving spectrum of threat agents, reduced false alarm rates, and integration of detectors into various mapping and communication networks to provide common warning and reporting to the joint force.

PRODUCT DIRECTOR BATTLEFIELD MANAGEMENT SYSTEMS: Provide the Warfighter with a sensor connectivity, analysis, and warning & reporting capability that will satisfy NBC Suite requirements for combat platforms; provide the Joint Forces with a comprehensive analysis and response capability to minimize the effects of hostile NBC attacks or accidents/incidents; provide early warning and hazard prediction to protect the United States against CB events; provide the data management infrastructure needed to ensure interoperability across CBRN Defense Programs; and, provide CBRN material and development information to both the FCS and OFW programs. Ensure proper integration of future CBRN capabilities as technologies mature.

PRODUCT DIRECTOR CHEMICAL/NUCLEAR DETECTION: Develops, produces, tests and fields Chemical and Nuclear detection systems within the established cost schedule and performance parameters.

NBC RECONNAISSANCE AND OBSCURATION: Responsible for development, production, fielding and support of NBC Reconnaissance Systems that meets the need for enhanced survivability of U.S. forces against weapons of mass destruction (WMD). The systems provide an effective system to detect and identify, mark and report nuclear, biological and chemical hazards. The JPMO ensures that cost, schedule, performance and logistical supportability requirements are met. The JPMO currently supports the fielded Fox NBCRS and is developing NBC recon systems on HMMWV, LAV and Stryker platforms.

XVII. PEO COMBAT SUPPORT AND COMBAT SERVICE SUPPORT (CS&CSS)

SBIR POC: Robert Lapolice, (586) 909-9945, robert.lapolice@us.army.mil

A. PM FUTURE TACTICAL SYSTEMS (PROVISIONAL)

MISSION: PM Future Tactical System (PM FTS) leads the development and acquisition of future tactical systems in support of an expeditionary Army. The PM FTS vision is to provide the capabilities for the Army to adjust for changing conditions on the battlefield. Among the responsibilities of PM FTS are the Joint Light Tactical Vehicle (Provisional), the Long Term Armor Strategy (LTAS), Sets, Kits, Tools and Outfits (SKOT), and Test, Measurement and Diagnostic Equipment (TMDE).

AREAS OF INTEREST: Technologies Associated With The Following:

- Soldier Portable Sets (Battle Damage Assessment And Repair Kit, Explosive Ordnance And Disposal Kits, Individual Aircraft Armament Repair Tool Set)
- Modular Shop Sets (Standard Automotive Tool Set, Forward Repair System, Battalion Maintenance Set, Glass And Canvas Shop Set)
- Mobile Shop Sets (Body, Explosive Ordnance Disposal, Shop Equipment Welding, Woodworking Shop Set)
- Shop Support Equipment (Milling Machines, Welding Machines, Engine Lathes)
- Diving Equipment (Individual Swimmer Support Set, Divers Underwater Photo Support Set, Swimmer Support Set, Open Circuit Scuba Set)
- Test, Measurement, Diagnostic And Calibration Equipment
- Joint Light Tactical Vehicle Technologies

B. PM FORCE PROJECTION

MISSION: The PM Force Projection (PM FP) leads the acquisition component of a fully integrated team that develops, produces, fields and sustains world-class materiel solutions to meet current and future support requirements of the U.S. Military across the operational spectrum. The vision of PM FP is to be recognized as experts in commercial off the shelf & non-developmental items (CANDI) acquisition, logistics and technology.

AREAS OF INTEREST: Technologies Associated With The Following:

- Army Watercraft Systems (Landing Craft, Logistic Support Vessel)
- Construction And Materials Handling Equipment (Cranes, Construction Plants And Equipment, Graders And Scrapers)
- Force Sustainment Systems (Aerial Delivery Equipment, Shelter Systems, Field Feeding Systems)
- Development, Production, Fielding And Sustainment Of Petroleum And Water Systems
- Assured Mobility Systems (Bridging Technology, Mine Protected Vehicles)

C. PM TACTICAL VEHICLES

MISSION: PM Tactical Vehicles (PM TV) is committed to the goals and performance of a Joint Expeditionary Force, focusing on increasing the relevance and readiness of our Tactical Wheeled Vehicle (TWV) fleet, and ensuring that the best possible product is available to support the current force and beyond. The current TWV fleet is composed of the M915, PLS, HET, HEMTT, FMTV, and HMMWV family of vehicles, as well as all associated trailers. PM TV pursues technology that will improve the capabilities of the current fleet with the right products at the right time for the right price.

AREAS OF INTEREST: Technologies Associated With The Following:

- Tactical Vehicles (Armored Security Vehicles, Heavy Equipment Transporter System)
 - Trailers (Dolly Sets, Self-Load/Off-Load Trailer, Semi-Trailers)
-

XVIII. PEO COMMAND, CONTROL AND COMMUNICATIONS TACTICAL (C3T)

SBIR POC: Grace Xiang, 732-427-0284, giping.xiang@us.army.mil
Christopher Shin, 732-427-0284, Christopher.shin@us.army.mil
Vikas Gumber, 732-427-2205, vikas.gumber@us.army.mil

AREAS OF INTEREST: Technologies Associated With The Following:

- Tactical Satellite Ground And Commercial Terminal Programs
- Tactical And Portable Satellite Communications Terminals
- Software Programmable And Hardware Configurable Digital Radio Networking System
- Communications System For Reliable, Secure, And Seamless Video, Data, Imagery, And Voice Services
- Terrain Analysis, Image Maps, Battlefield Data And Topographic Information
- Generation Of A Variety Of Mobility, Visibility, And Special Purpose Tactical Decision Aids
- File Access, File Management, Database Access, And Database Management
- Forward Entry Devices
- Handheld C2 And Wireless Technologies
- Geo-Referencing Software
- Tactical Radios
- Area Common User System
- Network Operations Systems
- Antenna Technologies

A. PM BATTLE COMMAND

MISSION: The mission of PM Battle Command (PM BC) is to provide Integrated Battle Command capabilities, training, and support to the Joint Land Component Warfighter. The Army Battle Command System (ABCS) products include the All Source Analysis System (ASAS), the Battle Command Sustainment Support System (BCS3) which provides the sustainment support segment of ABCS, Digital Topographic Support System (DTSS) which provides the terrain segment of ABCS, the Fire Support C2 which provides the processing, analysis and dissemination of intelligence products in different functional areas (including targeting, collection management, electronic warfare/electronic countermeasures, imagery intelligence, combat/human intelligence, operational security, and weather), the Global Command and Control System - Army (GCCS-A) which provides ABCS linkage to joint and coalition forces, the Maneuver Control System (MCS) which provides the ABCS maneuver functionality, and the Common Software (CS) product office develops the Army's portion of Common Operating Environment (COE) software products and the common infrastructure and foundation products for ABCS command and control.

B. PD COUNTER ROCKETS, ARTILLERY, AND MORTARS / AMDCSS

MISSION: The Counter - Rockets, Artillery, and Mortars (C-RAM) system interconnects and coordinates Sensors with RAM Shape, Warning, Intercept, and Response systems through Command and Control. The systems then Sense RAM launches, Warn troops, Intercept and destroy the RAM threat in flight, coordinate Response to the Ram launch point, and collect data to enable the US commander to Shape the battle to deny enemy RAM attacks. The C-RAM system also monitors friendly ground and air assets, to preclude collateral damage during engagements.

C. PM FORCE XXI BATTLE COMMAND BRIGADE AND BELOW

MISSION: The mission of PM Force XXI Battle Command Brigade and Below (PM FBCB2) is to field a digital command and control system that provides battle command and situational awareness information from brigade down to the soldier/platform level. FBCB2 forms the principal digital command and control system for the army at brigade and below. Appliqué hardware, software and EBC software are integrated into the various platforms at brigade and below, as well as appropriate division and corps slices necessary to support brigade operations. All FBCB2/EBC systems are interconnected through a communications infrastructure called the tactical internet to exchange situation awareness data and conduct command and control.

XVIII. PEO COMMAND, CONTROL AND COMMUNICATIONS TACTICAL (C3T) (CONTINUED)

SBIR POC: Grace Xiang, 732-427-0284, qiping.xiang@us.army.mil
Christopher Shin, 732-427-0284, Christopher.shin@us.army.mil
Vikas Gumber, 732-427-2205, vikas.gumber@us.army.mil

D. PM MOBILE ELECTRIC POWER

MISSION: The mission of PM Mobile Electric Power (PM MEP) is to provide a modernized standard family of mobile electric power generator sets for all services throughout the department of defense. Accomplish this mission through a coordinated inter-service effort to develop, acquire and support mobile electric power generator sets from small, 0.5kw manportable generator sets to large, 920kw prime power generating systems.

E. PDM NETWORK OPERATIONS – CURRENT FORCE

MISSION: The mission of PdM Network Operations – Current Force (PdM NETOPS-CF) is to provide network operations for the current force in accordance with applicable regulations and directives. Products include:

- Army Key Management Systems (AKMS) which enable frequency management and COMSEC management planners and operators to provide highly responsive and reliable secure communications operations at both theater/ tactical and strategic/ sustaining base levels;
- Integrated System Control (ISYSCON) which provides an automated, theater-wide system that Signal units can use to manage multiple tactical communications systems in support of battlefield operations;
- ISYSCON V4 which provides the Signal Officer, G6/S6, with a network management tool that will allow him to plan, disseminate, configure, initialize, monitor, and troubleshoot the Tactical Internet (TI) as well as the Tactical Operation Center (TOC), and Command Post (CP) Local Area Networks (LANs); and
- Joint Network Management System (JNMS) which provides a common, automated tool for network planning and management that will support the combatant commanders and their deployments.

F. NORTH EAST REGIONAL RESPONSE CENTER - SPECIAL PROJECT OFFICE

MISSION: The mission of North East Regional Response Center - Special Project Office (NRRRC SPO) is to rapidly investigate, assess, architect, develop and provide standardized leading edge joint command, control, communications technologies to the Warfighter in support of the Global War On Terrorism and other Real World Contingency Operations.

XVIII. PEO COMMAND, CONTROL AND COMMUNICATIONS TACTICAL (C3T) (CONTINUED)

SBIR POC: Grace Xiang, 732-427-0284, giping.xiang@us.army.mil

Christopher Shin, 732-427-0284, Christopher.shin@us.army.mil

Vikas Gumber, 732-427-2205, vikas.gumber@us.army.mil

G. PM TACTICAL RADIO COMMUNICATIONS SYSTEMS

MISSION: The mission of PM Tactical Radio Communications Systems (PM TRCS) is to provide Seamless Integrated Network Voice & Data Communications Systems and Life Cycle Support to enhance current US and Friendly Forces Combat Power.

- TOC/AMDCCS is responsible for the overall management of activities related to research, development, and acquisition of automated air and missile defense command and control (C2) systems to include FAAD C2 (ACAT 1C) and Air/Missile Defense Planning and Control System (AMDPCS) (ACAT III).
- PM TRCS Tactical Radios is responsible for the overall project management of assigned tactical radios which include single channel ground and airborne radio system (SINCGARS), enhanced position location reporting systems (EPLRS), multi-functional information distribution system (MIDS) or army link-16, combat survivor evader locator (CSEL), near term digital radio (NTDR), spitfire, high frequency radio (HF), army common user system modernization programs, Army over time modernization efforts and communications systems that support Stryker brigade combat teams 1-6.
- The Warfighter Communications Solutions (WARCOMS) Division is responsible for the management of assigned Transmission, Switching and Network Operations programs and equipment under the purview of PM TRCS.
- Common Hardware Systems (CHS) which is a full service hardware enabler of Battle command, control, and communications across Army and DoD systems.
- JNN Network commercial technology insertion will provide the Army with a high-speed and high capacity backbone communications network focused on rapidly moving information in a manner that supports commanders, staffs, functional units, and capabilities based formations. JNN Network enables commanders to plan, prepare, and execute multiple missions and task simultaneously.
- International Network & Communications Office (INCO) is Responsible for the project planning, execution, evaluation and reporting of the Improved Mobile Subscriber Equipment (IMSE) and as the Army Deputy to the Joint Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) Po Sheng, or any similar system.
- Product Manager, Mounted Battle Command On The Move (MBCOTM) will enable the Tactical Commander to exercise effective Command and Control by moving to the Decisive Point on the battlefield with the same level of Situational Understanding heretofore available only within a fixed command post.

H. PM WARFIGHTER INFORMATION NETWORK–TACTICAL

MISSION: The mission of PM Warfighter Information Network – Tactical’s (WIN-T) is to integrate the communications network for the Objective Force (OF), optimized for offensive and Joint operations, while providing the Theater Commander in Chief (CINC) the capability to perform multiple missions simultaneously with campaign quality. It will be a framework, which will set standards and protocols for OF Infospheres while interfacing with and/or replacing equipment in legacy and interim forces. WIN-T is the OF high-speed and high capacity backbone communications network. The WIN-T program is the army's communications system for reliable, secure, and seamless video, data, imagery, and voice services that enable decisive combat actions. The WIN-T system will establish an environment in which commanders at all echelons will have the ability to operate with virtual staffs and analytical centers that are located at remote locations throughout the battlespace.

XIX. PEO ENTERPRISE INFORMATION SYSTEMS (EIS)

SBIR POC: Ed Velez, 703-806-0670, ed.velez@us.army.mil
Rajat Ray, 703-806-4538, rajat.ray@us.army.mil
Mary J. Byrd, 703-806-3235, marv.byrd@us.army.mil

A. ACQUISITION, LOGISTICS AND TECHNOLOGY ENTERPRISE SYSTEMS AND SERVICES (ALTESS)

Mission: ALTESS provides information management policy, guidance, support and enterprise products and services to the Army Acquisition Executive (AAE), the Office of the Assistant Secretary of the Army for Acquisition, Logistics & Technology (ASA (ALT)) and the Acquisition Domain. The platform is a net-centric collaborative environment relevant to the Army and DoD acquisition domains. ALTESS also provides specialized information management products, support, solutions and services to other Army and DoD elements.

B. ARMY HUMAN RESOURCE SYSTEM (AHRS)

Mission: The Army Human Resource System (AHRS) Product Management Office produces and establishes personnel management information systems for the active Army. AHRS facilitates the modernization of human resource advancement that includes support to the Army's personnel transformation by providing commanders with Web-based, interactive and accurate military personnel information to make decisions and effectively manage personnel. The AHRS overall goal is to consolidate some of the Army field level personnel systems in preparation for migration to the Defense Integrated Military Human Resource System (DIMHRS).

C. ARMY KNOWLEDGE ONLINE (AKO)

Mission: The Army Knowledge Online Project Office provides premiere enterprise Web portal functions, tools and services to the warfighter, institution and greater Army community, securely and reliably, anywhere and anytime. It enables transformation, efficiency and greater connectivity among soldiers, Army families and the Army workforce.

D. AUTOMATED LOGISTICS AND INTEGRATED SYSTEMS (ALIS)

Mission: Provides the Life Cycle Management of all functional and technical aspects of the Army logistics systems in a manner consistent with the policies and principles articulated in DoD directives. These systems include the automation and sustainment of ammunition, maintenance, supply, property accountability and finance.

E. ARMY SMALL COMPUTER PROGRAM (ASCP)

Mission: To support the Army's warfighter information dominance objectives by developing, implementing and managing information technology contracts that provide comprehensive hardware and software solutions with enterprise focused support services within the Army Knowledge Enterprise Architecture.

F. BIOMETRICS

New to the PEO EIS family, Product Director (PD) Enterprise Biometrics will be responsible for design, engineering, development, implementation and life cycle sustainment of a DoD enterprise biometric solution.

XIX. PEO ENTERPRISE INFORMATION SYSTEMS (EIS) (CONTINUED)

SBIR POC: Ed Velez, 703-806-0670, ed.velez@us.army.mil

Rajat Ray, 703-806-4538, rajat.ray@us.army.mil

Mary J. Byrd, 703-806-3235, mary.byrd@us.army.mil

G. COMMAND CENTER UPGRADES/SPECIAL PROJETS CS OFFICE (CCU/SPO) PM DCATS

Mission: CCU/SPO provides overall project RAPPER management, engineering, acquisition, installation, integration and testing for the upgrade, modernization or relocation of Command, Control, Communications, and Computers Information System (C4IS) operations and systems at Army, Joint, and Combined Headquarters/Command Centers and other C4IS-intensive facilities. CCU/SPO not only has decades of experience in command center upgrades, but also has expertise in technical disciplines including voice, video, data, long-haul communications, telephone switching, software intelligence, audio-visual distribution briefing display systems and emergency response systems (911).

H. DEFENSE COMMUNICATIONS AND ARMY SWITCHED SYSTEMS (DCASS)

Mission: Acquire and sustain upgrades/modernization of Enterprise-enabled voice and data networks in support of the Installation Information Infrastructure Programs worldwide. PM DCASS provides core data backbone and telecommunications infrastructure upgrades and modernizations to Army installations around the world. PM DCASS is the primary implementer of the Installation Information Infrastructure Modernization Program (I3MP) and has recently assumed responsibility to provide the Goal 3 enterprise solution in support of the Army Knowledge Management (AKM) Strategic Plan.

I. DEFENSE COMMUNICATIONS AND ARMY TRANSMISSIONS SYSTEMS (DCATS)

Mission: PM DCATS supports joint warfighters, major commands and Combatant Commanders with dedicated, worldwide, strategic satellite ground components and long-haul terrestrial microwave communications systems, tech control facilities, command center upgrades, base radios, combat vehicle intercom systems and deployed forces infrastructure. DCATS is a suite of more than 100 projects. PM DCATS provides centralized, intensive project management of communications transmission systems projects and other special programs, worldwide. With a track record of proven success since 1967, PM DCATS can provide the long-haul connectivity customers need, using microwave, satellite, fiber optic or copper cable links regardless of distance, terrain or other impediments.

J. DEFENSE COMMUNICATIONS SYSTEM-CONUS (DCS-C)

Mission: Acquire and sustain upgrades/modernization of enterprise-enabled voice and data networks in support of the Installation Information Infrastructure Programs CONUS.

K. DEFENSE COMMUNICATIONS SYSTEM-EUROPE (DCS-E)

Mission: Acquire and sustain upgrades/modernization of Enterprise-enabled voice and data networks in support of the Installation Information Infrastructure Programs in the European theater.

L. DEFENSE COMMUNICATIONS SYSTEM-PACIFIC (DCS-P)

Mission: Acquire and sustain upgrades/modernization of enterprise-enabled voice and data networks in support of the Installation Information Infrastructure Programs in the Pacific theater.

XIX. PEO ENTERPRISE INFORMATION SYSTEMS (EIS) (CONTINUED)

SBIR POC: Ed Velez, 703-806-0670, ed.velez@us.army.mil

Rajat Ray, 703-806-4538, rajat.ray@us.army.mil

Mary J. Byrd, 703-806-3235, mary.byrd@us.army.mil

M. DEFENSE INFORMATION MANAGEMENT HUMAN RESOURCES SYSTEMS (DIMHRS)

Description: DIMHRS will be a single, standard military personnel and pay system supporting military personnel of all services and their components at the services' personnel support activities. It will collect, store, pass, process and report personnel and pay data for these personnel. In addition, DIMHRS will provide the capability to collect process and report appropriate data on DoD-sponsored civilians and designated foreign military personnel deployed to, or in, a theater of operations as required during specified contingency, wartime and non-combatant evacuation operations. This capability will accommodate surges in records maintained. The system will maintain personnel information on retirees and survivor personnel. Another system will provide pay support for survivors and retirees. The DIMHRS Program is a software application development effort. The system developer is responsible for defining the infrastructure required to support the system; however, for successful operation it is dependent on the Defense Information Infrastructure Common Operating Environment (DII COE)-compliant infrastructure to be provided by the services and their components. The system and its internal processes will meet departmental guidelines for interoperability and information assurance. It will operate on Non-Developmental Item (NDI) equipment using commercial-off-the-shelf (COTS) and government-off-the-shelf (GOTS) software to the maximum extent possible. The DIMHRS design will include the capability for rapid implementation of system changes to support requirements, including legislative and policy changes.

N. DEFENSE MESSAGING SYSTEM-ARMY (DMS-A)

Mission: To support the Army and joint warfighter's information dominance objectives by partnering with DoD and other governmental agencies to develop, acquire, integrate, and deploy an enterprise solution for an interoperable, seamless and secure writer-to-reader electronic messaging system for organizational users. Extend the solution throughout the Army and supported Combatant Commands, whether strategically placed or tactically deployed.

O. DEFENSE WIDE TRANSMISSION SYSTEM (DWTS)

Mission: DWTS fields selected strategic and base support C4I systems. DWTS is also responsible for providing development, modernizing C4I systems, implementing terrestrial transmissions and improving technical control projects worldwide, for the Army, other services and the Joint Chiefs of Staff.

P. DISTRIBUTED LEARNING SYSTEM (DLS)

Mission: Acquire, deploy and maintain a worldwide distributed learning system to ensure our nation's soldiers receive critical training for mission success. Soldier readiness necessitates training on-demand. Distributed Learning System (DLS), the infrastructure that delivers distributed learning, is breaking old training paradigms by bringing training to the soldier anywhere, anytime, 24/7. Using state-of-the-art technology, DLS streamlines training processes; automates training management functions; delivers training using electronic means; and enables military and civilian personnel, training developers, training managers, unit commanders and training noncommissioned officers (NCOs) to access training using the Web. Distributed learning provides the Army with the capability to obtain the state of readiness necessary to accomplish the Army's mission and contributes to quality of life by increasing stability for both soldiers and civilians in their personal and professional lives. DLS is dedicated to providing a quality distance-learning system to all Army components in the most expeditious and cost-effective manner possible. DLS is responsible for fielding multiple training systems simultaneously—the success of each program directly impacting the Army's ability to meet its training mission. To date, DLS has trained over 581,000 soldiers through one of the five components it supports.

Q. DISTRIBUTIVE TRAINING TECHNOLOGY PROJECT (DTTP)

Mission: Enable realistic cost-effective training for National Guard soldiers and units while providing communities with convenient local access (through a partnership program) to the best educational resources available throughout the country.

XIX. PEO ENTERPRISE INFORMATION SYSTEMS (EIS) (CONTINUED)

SBIR POC: Ed Velez, 703-806-0670, ed.velez@us.army.mil

Rajat Ray, 703-806-4538, rajat.ray@us.army.mil

Mary J. Byrd, 703-806-3235, mary.byrd@us.army.mil

R. ENTERPRISE INFOSTRUCTURE (EI)

Mission: Project Director, Enterprise Infostructure (PD EI) is to design, develop, acquire, integrate, test and field a world-class information technology enterprise infostructure for the Army. PD EI forms partnerships with government and industry to provide acquisition solutions for: Secure messaging and directory services; Public key and biometric technology solutions for Army applications; In-transit visibility infrastructure and automatic identification technologies; Enterprise contracts providing a full range of hardware, software and services.

S. FORCE MANAGEMENT SYSTEM MISSION (FMS)

Mission: To design, develop and deploy an integrated Force Management System that will establish accurate, consistent and timely force structure information to the Army Force Management community. FMS will directly support the director of Force Management in the Office of the Deputy Chief of Staff, (G-3/5/7) and its mission of managing and allocating manpower and force structure information; documenting unit models (requirements) and authorizations over time; and providing organizational/force structure solutions in support of the Army's transformation towards the Future Force.

T. GENERAL FUND ENTERPRISE BUSINESS SYSTEMS (GFEBS)

Mission: The General Fund Enterprise Business System (GFEBS) system will supply top-tier Army and DoD leadership with standardized, real-time financial data and business information, empowering them to make strategic business decisions that directly benefit America's warfighters. GFEBS is a Web-based enterprise resource planning (ERP) solution that leverages commercial-off-the-shelf business enterprise software to enable the Army to compile and share accurate, up-to-date financial and accounting data across the service. As the Army's system of record for financial accounting and management, GFEBS will replace at least 80 percent of all overlapping and redundant systems and become one of the world's largest enterprise financial systems, eventually managing \$100 billion in annual spending. Release 1.1 of the GFEBS solution—a Real Property Inventory technical demonstration for Fort Jackson, S.C.—was set for completion in April 2006. Additional financial and accounting functions will be designed and configured in subsequent releases and increments. Following a phased in deployment strategy, the GFEBS solution will be fully functional at all Army and DFAS locations worldwide by 2009. A common system providing one authoritative source of the Army's financial management information, GFEBS facilitates deployed and geographically distributed operations and integration with other commercial business systems. Additionally, it will improve a commander's ability to allocate resources by: Increasing buying power Providing real-time budget execution information Pinpointing costs of specific operations Identifying total operational cost (mission and support costs) Improving asset visibility, cost of ownership and buy/repair decisions Providing accurate cost of readiness reports.

U. GLOBAL COMBAT SUPPORT SYSTEM-ARMY (FIELD/TACTICAL) (GCSS-A (F/T))

Mission: The Global Combat Support System-Army (Field/Tactical) is an enterprise resource planning (ERP) system for the tactical component of the Single Army Logistics Enterprise (SALE). GCSS-A (F/T) will execute tactical logistic business processes that will integrate/interface with applicable Command and Control and Joint systems. It is a logistics enabler that will help achieve the Army's and the Logistics Combat Support/Combat Service Support (CS/CSS) Transformation Vision. GCSS-A (F/T) was established in 2003 to convert legacy STAMIS systems into an ERP solution. Today, STAMIS systems interface with existing CSS automated systems and include functionality such as supply operations, property accountability, maintenance, ammunition and logistics management. Each system runs at any level or organization where the Army performs that function. The ERP implementation of GCSS-A (F/T) will be the Army's primary information system for tactical logistics. It will enable a seamless, integrated and interactive CSS information management and operations system for users at all echelons. The system will use an architecture comprising the user and a centralized national-level database and ERP application software, with interfaces to other systems as required. It will establish a net-centric management system with robust communications for timely and responsive Army logistics.

XIX. PEO ENTERPRISE INFORMATION SYSTEMS (EIS) (CONTINUED)

SBIR POC: Ed Velez, 703-806-0670, ed.velez@us.army.mil

Rajat Ray, 703-806-4538, rajat.ray@us.army.mil

Mary J. Byrd, 703-806-3235, mary.byrd@us.army.mil

V. INSTALLATION INFORMATION INFRASTRUCTURE MODERNIZATION PROGRAM (I3MP) ENTERPRISE SYSTEMS (IES)

Mission: The Assistant Project Manager, Installation Information Infrastructure Modernization Program Enterprise Systems (IES) provides the Army with capabilities and adaptive processes that support net-centricity, secure access to knowledge and improved information systems and services throughout the Army environment. IES supports Army's ability to integrate and manage the infrastructure as an enterprise to enhance capabilities and efficiencies through the consolidation of print, file, Web and e-mail servers, Army global directories and by implementing enterprise system management for desktop operating environments. As the Army moves toward overall enterprise management, the efficiencies associated with the IES mission will reduce total cost of ownership. I3MP provides for the engineering, acquisition, implementation and management of the Army's installation level telecommunications infrastructure (voice/data/ cable/long-haul gateway) to include the hardware and software required to manage the enterprise at Army posts, camps and stations worldwide. I3MP provides the capabilities to support the Global Information Grid (GIG), GIG Bandwidth Expansion (GIG-BE), Army Campaign Plan, Modularity, Army Expeditionary, Joint and Combined Forces, reachback and implementation of Army Knowledge Management Goal #3 (manage the infostructure as an enterprise to enhance capabilities and efficiencies). IES implementation of the infrastructure and support of a network centric Army will significantly impact the warfighter's ability to obtain timely and secure access to critical information.

W. INSTALLATION MANAGEMENT SYSTEMS-ARMY (IMS-A)

Mission: Provide Army personnel with IT that improves efficiency and provides standardization for the day-to-day functional business processes associated with the Army community.

X. INFORMATION TECHNOLOGY SYSTEMS (ITS)

Mission: Information Technology Systems (ITS) provides intensive centralized management of the modernization and replacement of IT systems infrastructure services and capabilities during the renovation of the Pentagon and associated facilities.

Y. JOINT-AUTOMATIC IDENTIFICATION TECHNOLOGY (J-AIT)

Mission: PM J-AIT provides a single point of contact for procurement and technical expertise across the suite of AIT enabling technologies. This supports focused logistics, Total Asset Visibility (TAV), and the integration of global supply chains. PM J-AIT provides automated near real time accurate data collection, aggregation, and retrieval that enhance information management systems. We also manage Radio Frequency In-Transit Visibility (RFITV) for DoD, NATO and coalition partners in support of expeditionary logistics and the joint warfighter.

Z. JOINT COMPUTER-AIDED ACQUISITION AND LOGISTICS SUPPORT (JCALS)

Description: Joint Computer-Aided Acquisition and Logistics Support (JCALS) provides an infrastructure capable of integrating digitized technical data that supports a weapon system acquisition and logistics life cycle. The system provides automated information system architecture independent of application. JCALS will initially meet the service/ Defense Logistics Agency goal of automating technical manual processes and functions. The architecture provides a distributed open-systems environment that makes extensive use of both industry and government standards. At JCALS sites, hardware and software configurations are dependent on each site's organizations and functions, processing needs and role in the overall system. Each site is equipped with three conceptual segments that will provide the JCALS functionality. The Network Management Segment provides local and wide area communications processing. The Data Management Segment distributes, manages, updates and replicates data throughout the system. The Workstation Management Segment delivers the applications and functions to the user's workstations. The initial application of JCALS is the technical manual functionality.

XIX. PEO ENTERPRISE INFORMATION SYSTEMS (EIS) (CONTINUED)

SBIR POC: Ed Velez, 703-806-0670, ed.velez@us.army.mil

Rajat Ray, 703-806-4538, rajat.ray@us.army.mil

Mary J. Byrd, 703-806-3235, mary.byrd@us.army.mil

AA. LOGISTICS INFORMATION SYSTEM (LIS)

Mission: To enable the Single Army Logistics Enterprise (SALE) architecture by directing acquisition management, development, implementation, deployment, training and sustainment of tactical current logistics systems, emerging ERP software and logistics capabilities that enhance warfighter operations and support the Army supply chain. Logistics Information Systems is responsible for numerous logistics management systems throughout the acquisition lifecycle of technology development, system development, production, deployment, and operations and support.

AB. LOGISTICS MODERNIZATION PROGRAM (LMP)

Mission: The Logistics Management Program (LMP) will provide a modernized solution that enables the Army Materiel Command to deliver world-class logistics and readiness to the warfighter. LMP will integrate such functionality as procurement and asset management, depot maintenance planning and execution, financial management, ammunition manufacture and maintenance, requisition processing and long-term supply planning. When fully deployed, LMP will support all aspects of the Army's national- and installation-level logistics.

AC. LAND MOBILE RADIO (LMR)

Mission: LMR manages, engineers, acquires, delivers and supports CONUS non-tactical LMR systems that support installation force protection, public safety, installation management and homeland security. The LMR program supports migration of Army, DoD and federal civilian agencies to narrowband frequencies as mandated by the National Telecommunications and Information Administration (NTIA). LMR is pursuing regionalization when economically and operationally feasible and promoting state and local interoperability requirements.

AD. MEDICAL COMMUNICATIONS FOR COMBAT CASUALTY CARE (MC4)

Mission: Medical Communications for Combat Casualty Care (MC4) develops, fields and supports a medical information management system for Army tactical medical forces, enabling a comprehensive, life-long electronic medical record for all service members, and enhancing medical situational awareness for operational commanders. By accomplishing this mission, the MC4 Product Management Office (PMO) will have provided the Army's solution to presidential and congressional objectives, set forth by Title 10 in 1997, which called for a medical tracking system for all deployed service members.

AE. MILITARY ENTRANCE PROCESSING COMMAND (MEPCOM)

On May 9, 2005, the Assistant Secretary of the Army (Acquisition, Logistics and Technology) (ASA ALT) approved the request of the Office of the Under Secretary of Defense Personnel and Readiness to provide acquisition management support to USMEPCOM's information technology modernization program. The ASA ALT memorandum designated PEO EIS as the material developer and milestone decision authority for the USMEPCOM initiative—Virtual Interactive Processing System (VIPS). Ms. Guri Glass, Project Officer for Installation Management Systems-Army, will oversee the VIPS design and development effort. USMEPCOM is currently engaged in efforts to transform its business processes and operational environment. After exhaustive review, USMEPCOM determined that its information technology environment could not support its own or its community partners' proposed business process changes, nor could it meet DoD IT-related guidelines. The Virtual Interactive Processing System was chosen as the preferred alternative to subsume the old outdated system after an extensive Analysis of Alternatives was completed and approved in August 2005. The new system will provide for enhanced processing capabilities needed to support the dynamic recruiting environment of today's world. The VIPS development effort will focus on the acquisition of capabilities necessary to address existing shortfalls, support proposed business changes, implement an IT environment that is compliant with DoD mandates, and support USMEPCOM's future accession requirements through flexible and scalable IT. The milestone decision authority approved entrance into acquisition Milestone B on August 16, 2005, and USMEPCOM is currently conducting Business Process Reengineering efforts to develop a Functional Requirements Document

(FRD). The FRD will supply the necessary requirements needed for the Program Office to begin the design and development of the VIPS.

XIX. PEO ENTERPRISE INFORMATION SYSTEMS (EIS) (CONTINUED)

SBIR POC: Ed Velez, 703-806-0670, ed.velez@us.army.mil

Rajat Ray, 703-806-4538, rajat.ray@us.army.mil

Mary J. Byrd, 703-806-3235, mary.byrd@us.army.mil

AF. MOVEMENT TRACKING SYSTEM (MTS)

Mission: MTS is the keystone to bringing logistics into the digitized battlefield of the 21st century. This technology will provide the communications and tracking necessary for all tactical wheeled vehicles (TWV) and other select Combat Service Support (CSS) assets to complete their distribution missions on the digitized battlefield. MTS provides the capability to identify position, track progress and communicate with the operators of TWV. Through the use of positioning and commercial communication satellites, MTS provides the means for transportation movement control and Combat Support/ Combat Service Support (CS/CSS) operations sections to exercise assured positive control of assets anywhere in the world.

AG. PRODUCT LIFECYCLE MANAGEMENT (PLM+)

Mission: Implement GCSS-Army (PLM+) as a technical enabler to support SALE requirements to integrate national & field logistics components of SALE (LMP & GCSS-Army (F/T)), harmonize functional product management business rules and processes, and establish a single point of entry and exit for interfaces between LMP / GCSS-Army (F/T) instances and external systems. PLM+ is a commercial technology program. It will serve as the technical enabler to link the field-level logistics system—the Global Combat Support System—with the national-level logistics system—Logistics Modernization Program and as the point of entry for other automation systems seeking logistics data. PLM+ will implement two SAP components within the mySAP solution: Product Lifecycle Management (PLM) and NetWeaver. Hence, the acronym PLM+ describes an SAP PLM solution plus a NetWeaver solution. From a systems point of view, PLM+ is defined as the single point of entry for Army logistics, and the broker of technical information across Army logistics, including LMP and GCSS-Army F/T. PLM contains the product lifecycle management business processes and technical data that will be configured based on Army logistics requirements as documented in the GCSS-Army Operational Requirements Document (ORD). PLM provides an integrated solution for managing product data and the Army logistics processes it supports throughout the lifecycle of a weapon system.

AH. RESERVE COMPONENT AUTOMATION SYSTEM (RCAS)

Mission: Develop, field and sustain a modern automated information system that will sustain the United States in the 21st century, support the mobilization of reserve component units and significantly improve their ability to accomplish day-to-day unit administration. PMO RCAS is also responsible for Distributive Training Technology Project (DTTP). The RCAS is an automated information system that provides the Army the capability to administer, manage and mobilize Army Guard and Reserve forces more effectively. More than 50 percent of the Army's force structure is in the Reserve component. RCAS provides an integrated capability that supports mobilization and improves day-to-day administration and management of Reserve and Guard forces. RCAS links approximately 10,500 Guard and Reserve units at approximately 4,000 sites located in all 50 states, three territories and the District of Columbia.

AI. SINGLE ARMY LOGISTICS ENTERPRISE (SALE)

Following briefings to stakeholders, it is anticipated that the SALE will be stood up as a part of PEO EIS. The SALE takes the wholesale system of the Logistics Modernization Program, combines it with the functionality of Product Life Cycle Management Plus, and adds GCSS-Army Field/Tactical to the mix.

AJ. SATELLITE COMMUNICATIONS SYSTEMS (SCS)

Mission: SCS manages the modernization, development and acquisition of DSCS earth terminals and baseband equipment for all military services and agencies. SCS is responsible for the development, acquisition, logistics support, testing, product improvements and fielding of strategic Super-High Frequency (SHF) satellite communications ground terminals. These satellite terminals are Joint Chiefs of Staff assets and are of prime importance to the Army, Navy, Air Force, Defense Information System Agency and other special users like the National Communication Authority's Direct Communication Link (DCL) program. SCS acquires, develops, fields and supports the satellite terrestrial subsystem, which provides the digital modulation data stream to the Defense Communications Sub-System earth terminals using the Standardized Tactical Entry Point (STEP) and Multiplexer Integration and DCSS Automation System (MIDAS) Programs. SCS is also the system integrator for the ACAT 1 Teleport Program, responsible for the Teleport baseband equipment procurement and implementation.

XIX. PEO ENTERPRISE INFORMATION SYSTEMS (EIS) (CONTINUED)

SBIR POC: Ed Velez, 703-806-0670, ed.velez@us.army.mil

Rajat Ray, 703-806-4538, rajat.ray@us.army.mil

Mary J. Byrd, 703-806-3235, mary.byrd@us.army.mil

AK. TACTICAL LOGISTICS DATA DIGITIZATION (TLDD)

Mission: APM Tactical Logistics Data Digitization (TLDD) is the collaboration of multiple information technology initiatives designed to automate current supply and maintenance processes that will reduce paper and clerical errors on the battlefield. TLDD serves as a digital capability to extract logistically significant data from weapon system platforms and then transmit that information into Standard Army Management Information Systems (STAMIS) such as the Unit Level Logistics System (ULLS), Standard Army Maintenance System (SAMS), and eventually Global Combat Service Support-Army (GCSS-A) and Combat Service Support Control System.

AL. TECHNOLOGY APPLICATION OFFICE (TAO)

Mission: The Technology Applications Office (TAO) is a functionally integrated, task force organization designed to provide centralized, life-cycle management, engineering, fielding and operation of IT and infrastructure projects, supporting Headquarters, Department of the Army-approved programs. TAO also provides operational support in identifying, developing, testing and evaluating emerging technologies for interoperability and integration into information management equipment and systems.

AM. TRANSPORTATION INFORMATION SYSTEMS (TIS)

Mission: TIS is a joint program that falls within the DoD mission area of mobility and transportation for DoD passengers and cargo during war and peace. Operating as part of the Global Combat Support System (GCSS), it provides critical data to the Global Transportation Network (GTN) and Command and Control (C2) systems. It interfaces with joint and service systems to provide In- Transit Visibility (ITV) and Total Asset Visibility (TAV) to all branches.

AN. WIDEBAND CONTROL (WC)

Mission: Wideband Control is the manager for the development, acquisition, testing and fielding of satellite control systems for the Defense Satellite Communications System (DSCS) and Wideband Gapfiller System (WGS) programs. WC provides strategic satellite payload network control and planning systems for use with DSCS, Wideband Gapfiller and commercial satellite systems, such as the Objective DSCS Operational Control System (ODOCS); Gapfiller Satellite Configuration Control Element (GSCCE); Control Network Planning Software (CNIPS); Replacement Satellite Configuration Control Element (GSCCE); and Integrated Management and Power Control Subsystem (IMPCS), among others.

XX. PEO GROUND COMBAT SYSTEMS (GCS)

SBIR POC: Peter Haniak, 586-574-8671, peter.haniak@us.army.mil
Jose Mabesa, 586-574-6751, jose.mabesa@us.army.mil

A. PM HEAVY BRIGADE COMBAT TEAM

MISSION: The PM Heavy Brigade Combat Team (PM HBCT) delivers, sustains and modernizes combat power for the Army's Heavy Brigade Combat Team formations. PM HBCT is the Army's life cycle manager for the Abrams, M88, Bradley, M113, M109 and Knight family of vehicles. Our responsibilities include the design, development, production, fielding and sustainment of safe, reliable and lethal ground combat systems.

AREAS OF INTEREST: Technologies Associated With The Following:

- Survivability
- Lethality
- Mobility
- Modernization of Fielded Systems with Commonality as an Objective
- Embedded Training Capability
- Vehicle Health Management
- Future Systems Spin-Out

B. JOINT LIGHTWEIGHT HOWITZER 155MM

MISSION: The Joint Lightweight Howitzer 155MM Program Management Office (JLW155 PMO) takes a Joint (Army & Marine) perspective in managing the development, acquisition, testing, systems integration, product improvement, and fielding of the M777A1/A2 howitzer, designed to enhance strategic mobility and provide the infantryman and marine with effective and responsive fire support. JLW155 PMO's task is to provide a world-class, supportable howitzer system to the artillery cannoner permitting him to accomplish his mission. In addition to the M777A1/A2 howitzer, the program office is also responsible for the Army's M119 and M198 systems, as well as the Improved Position and Azimuth Determining System and the Gun Laying and Positioning Systems.

AREAS OF INTEREST: Technologies Associated With The Following:

- Advancements in Digital Fire Control Systems and Power Management
- Development, Production, Fielding And Sustainment Of Towed Artillery Systems
- Army Software Blocking
- Artillery Support Equipment (Aiming Circles, Collimators, Radar Systems)

C. ROBOTIC SYSTEMS JPO

MISSION: PM Robotic Systems JPO takes a Joint (Army & Marine) perspective in managing the development, acquisition, testing, systems integration, product improvement, and fielding of robotic systems which will form the backbone of the force of the future. PM Robotics Systems JPO is spearheading development of the first generation system employing the latest sensor, remote navigation, and command and control technologies to integrate robotics into the battlefield. Speeding these technologies to the battlefield has potential to revolutionize combat operations.

D. PM STRYKER BRIGADE COMBAT TEAM

MISSION: PM Stryker Brigade Combat Team develops, produces, fields and sustains a full range of safe, reliable, supportable and effective systems called Stryker, which will be the primary weapons platform during the Army's Transformation. The Stryker is a diverse fleet of medium weight vehicles capable of being rapidly deployed to trouble spots within the world. These vehicles leverage existing military "state of the art" technologies in order to provide world-class equipment to the soldier in record time.

XXI. PEO INTELLIGENCE, ELECTRONIC WARFARE & SENSORS (IEW&S)

SBIR POC: Bharat Patel, 732-578-6458, bpatel@mitre.org
Richard Czernik, 410-273-5406, rczernik@mitre.org

A. PM AVIATION ELECTRONIC SYSTEMS

MISSION: PM Aviation Electronic Systems provides Army aviation platforms countermeasures for self protection and survivability.

B. PM DISTRIBUTED COMMON GROUND SYSTEM-ARMY

MISSION: PM Distributed Common Ground System-Army (DCGS-A) is the Army embodiment of net-centric Intelligence, Surveillance, and Reconnaissance (ISR) for the Commander, analyst, and shooter. It brings threat, neutral, and weather capability to the common operating picture while providing sensor tasking, posting and processing of information, and exploitation of that information. It will provide fixed, deployable, man-portable systems or a software application depending on the Commander's requirements.

C. PM NAVIGATION SYSTEMS

MISSION: PM Navigation Systems (NAV SYS) provides the tactical Army with capability for self location through ground based and airborne GPS. NAV SYS also provides the means for combat identification.

AREAS OF INTEREST:

- Meteorological Measuring Set (Mms) (Upper Air Meteorological System That Makes Vertical Profiles Of The Earth's Atmosphere)
- Meteorological Measuring Set - Profiler (Mms-P) (Uses A Suite Of Meteorological Sensors And Data From Communication Satellites Along An Advanced Weather Model To Provide Highly Accurate Meteorological Data Out To A Range Of 500km)
- Combat Identification/Quick Fix Devices (Includes A Family Of Devices Used To Reduce The Risk Of Fratricide)

D. PM NIGHT VISION/RECONNAISSANCE, SURVEILLANCE, AND TARGET ACQUISITION

MISSION: PM Night Vision/Reconnaissance, Surveillance, and Target Acquisition develops, acquires, and provides superior, affordable day/night vision systems, weapon locating systems, and multi-sensor systems to the American Warfighter.

AREAS OF INTEREST: Technologies Associated With The Following:

- Long-Range Reconnaissance And Surveillance Sensor Systems
- Modular Target Location/Laser Designation Systems
- Thermal Imaging Technology
- Mobile Phased Array Artillery Locating Radar Systems
- Short Range Air Defense Systems
- Reconnaissance, Surveillance And Target Acquisition Systems

XXI. PEO INTELLIGENCE, ELECTRONIC WARFARE & SENSORS (IEW&S) (CONTINUED)

SBIR POC: Bharat Patel, 732-578-6458, bpatel@mitre.org

Richard Czernik, 410-273-5406, rczernik@mitre.org

E. PM SIGNALS WARFARE

MISSION: PM Signals Warfare provides the American Warfighter with the finest combat effective intelligence, surveillance, reconnaissance, and electronic warfare systems in the world, in a timely, cost effective and sustainable manner, while fully supporting Army transformation.

AREAS OF INTEREST: Technologies Associated With The Following:

- Providing Precision Targeting, Imaging And Geolocation
- Controlling And Exploiting UAV Mission Payloads
- Interception And Location Of Radio Emissions
- Airborne Signals Intelligence Collection Location And Exploitation Systems

F. PM AERIAL COMMON SENSORS (ACS)

MISSION: PM ACS is chartered to provide warfighters with the capability for tactically relevant airborne intelligence, Surveillance, and Reconnaissance (ISR) collection, processing, and dissemination. PM ACS programs include the management, sustainment, and modernization of two fielded systems, GUARDRAIL/Common Sensor (GR/CS) and Airborne Reconnaissance Low (ARL). Current GR/CS modernization efforts include the airborne sensor package and the migration to the GUARDRAIL Ground Baseline (GGB) to replace the current processing facilities. In addition, the PM has oversight for two systems under development, Tactical SIGINT Payload (TSP) currently in the System Development and Demonstration (SDD) phase and Aerial Common Sensor now in the Technology Demonstration (TD) phase.

G. PO JOINT PROGRAMS SUSTAINMENT AND DEVELOPMENT

MISSION: In response to the requirements of Combatant Commanders and the Department of Defense, PO Joint Programs Sustainment and Development (PO JPSD) integrates maturing technologies, commercial hardware and software and new tactics, techniques and procedures to facilitate development of capabilities in the areas of Command, Control, Communications, and Computers (C4), and Intelligence, Surveillance and Reconnaissance (ISR). PO JPSD uses non-traditional acquisition approaches, such as Advanced Concept Technology Demonstrations, Simulation Based Acquisition, rapid prototyping, and other novel approaches to accelerate the maturation and transition of key capabilities to the Army Future Force and future elements of the Joint Warfighting Force.

XXII. PEO MISSILES AND SPACE

SBIR POC: Carol Tucker, 256-876-5372 carol.tucker1@us.army.mil
George Burruss, 256-313-3523, george.burruss@msl.army.mil

A. PM INTEGRATED AIR AND MISSILE DEFENSE

MISSION: The Program Office of Integrated Air and Missile Defense (IAMD) plans, develops, coordinates, and executes the Army Integrated Air and Missile Defense Acquisition Program. The IAMD program will utilize a spiral development approach to accomplish the migration from “stove-piped” systems to a “system of systems” approach. This method involves fielding capabilities incrementally and closely associated with the Combat Developer's timeline for fielding Future Force capabilities.

The PEO MS is applying a System of Systems acquisition approach to meet the requirements of the warfighter and obtain the desired capabilities of the Army AMD Future Force. This System of Systems approach calls for a restructuring of systems into components of sensors, weapons and BMC4I with a standard set of interfaces among those components using a standardized set of networks to communicate.

The Product Manager for Integrated Fire Control or IFC is responsible for development, testing, fielding, and sustainment of the Common Battle Management Command, Control, Communications, Computers, and Intelligence or BMC4I system for the weapons components that constitute System of Systems. The Common BMC4I will bridge the gap between today's fielded weapons and sensor components, such as PATRIOT and Sentinel, and tomorrow's new developments, such as SLAMRAAM and MEADS.

B. PM JOINT ATTACK MUNITION SYSTEMS

MISSION: The Joint Attack Munition Systems (JAMS) Project Office was established in June 2005 with the merging of two project offices, Aviation Rockets and Missiles and Joint Common Missile. The office manages all aviation missiles within the Army. The Laser HELLFIRE® provides attack helicopter point target precision strike missile capability to defeat armor and selected targets. The Longbow HELLFIRE® provides the warfighter an air-to-ground precision missile system to engage and defeat individual advanced-armor hard point targets while increasing aircraft survivability. The 2.75 Inch Rocket provides air-to-ground suppression, smoke screening, illumination and direct and indirect fires to defeat area materiel and personnel targets at close and extended ranges.

Advanced Precision Kill Weapon System (APKWST™) will provide a low-cost precision strike against soft point targets while minimizing collateral damage. The Joint Common Missile (JCM) provides greater lethality, survivability and operational flexibility in support of Joint Operations and common target set for the Army, Navy and Marine Corps rotary-wing and fixed-wing platforms, unmanned aerial vehicles, and potential Future Combat Systems (FCS) ground components.

C. PM CLOSE COMBAT WEAPON SYSTEMS

MISSION: Close Combat Weapon Systems (CCWS) Project Office manages a number of anti-armor missile and target acquisition systems. Current missile systems include TOW 2, TOW 2A and TOW 2B. CCWS-managed target acquisition systems include the Improved Target Acquisition System (ITAS) and the Improved Bradley Acquisition Subsystem (IBAS). CCWS is also responsible for managing related ancillary Bradley TOW subsystems items and for preliminary work on the TOW Fire-and-Forget Missile System and the JAVELIN Medium Anti-tank System.

XXII. PEO MISSILES AND SPACE (CONTINUED)

SBIR POC: Carol Tucker, 256-876-5372 carol.tucker1@us.army.mil

George Burruss, 256-313-3523, george.burruss@msl.army.mil

D. PM CRUISE MISSILE DEFENSE SYSTEMS

MISSION: Cruise Missile Defense Systems (CMDS) forces are highly deployable and provide the shoot-on-the-move capability and mobility necessary to support the maneuver force. CMDS is currently transforming from a system-centric Current Force capability to a capabilities-centric Future Force. EAADS or Enhanced Area Air Defense System is envisioned to be a mix of kinetic and directed energy systems capable of overmatching traditional air, artillery, mortar, rocket and cruise missile threats.

CMDS Project Office is equipping the transformation of current force Maneuver Air and Missile Defense (MAMD) capability into an Integrated Air and Missile Defense system of systems. Programs include Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS), Sentinel Radar, Surface Launched AMRAAM, STINGER based Avenger and Man-portable Air Defense System (MANPADS) and Directed Energy Applications (DEA).

E. PM LOWER TIER

MISSION: The Lower Tier Project Office is comprised of the PATRIOT®, MEADS, PAC-3 and the Joint Tactical Ground Station or JTAGS. The MEADS air defense system, an international program with Germany and Italy will eventually replace the PATRIOT® with a system that expands the battle space, is more durable and maneuverable, and provides 360 degree force protection. During MEADS development key capability improvements will be incorporated into the PATRIOT® systems.

F. PM NON LINE OF SIGHT LAUNCH SYSTEMS

MISSION: The Future Combat System Non-Line of Sight Launch System (NLOS-LS) consists of a family of containerized guided munitions that are vertically launched directly from a highly deployable Container Launch Unit (CLU). Each CLU is enabled with self-contained technical fire control/electronics/ software for remote, unmanned operations. The NLOS-LS permits precision fire support to the Brigade Combat Teams or BCT at the right time and place in the most efficient and effective manner and is one of the premier systems for network centric operations and warfare in the Future Force. The current concept for NLOS-LS includes: Precision Attack Missile (PAM); Missile Canister; Container/Launch Unit (CLU); and Computer and Communications System (CCS). The CLU will serve as the basic NLOS-LS firing unit, shipping container, and launcher. It will provide an anti-tamper capability and be capable of remote commands to disable, launch, test for reliability, and conduct firing operations without the use of an attendant crew. The NLOS-LS will be platform independent. The Precision Attack Missile or PAM is a guided missile using a boost-glide trajectory for attack of hardened targets at extended ranges.

G. PM PRECISION FIRES ROCKET AND MISSILE SYSTEMS

MISSION: The Precision Fires Rockets and Missile Systems PMO manages the Multiple Launch Rocket System (MLRS) family of launchers, including the M270, M270A1 and the lighter High Mobility Artillery Rocket System, as well as the suite of rockets and missiles for the launchers. Munitions include the basic, extended range, and guided rockets, and the Block I/IA, Block II and Unitary Army Tactical Missile Systems.

XXIII. PEO SIMULATION, TRAINING AND INSTRUMENTATION (STRI)

SBIR POC: Robert Forbis, (407) 384-3884, robert.forbis@us.army.mil

AREAS OF INTEREST: Technologies Associated With The Following:

- Computer-Driven Combat Vehicle Simulators
- Synthetic Flight Training System Simulators
- Ground Combat Virtual Training Devices
- Constructive Simulations
- Gunnery Training Systems

A. PM COMBINED ARMS TACTICAL TRAINERS

MISSION: PM Combined Arms Tactical Trainers (PM CATT) manages the development, acquisition, fielding, and life cycle support of the Virtual Synthetic Environment and associated Training Aids, Devices, Simulators, and Simulations (TADSS) to support individual, institutional, and collective training.

B. PM CONSTRUCTIVE SIMULATION

MISSION: PM Constructive Simulation (PM CS), in partnership with the National Simulation Center (NSC), cost effectively develops and sustains constructive simulations primarily supporting the Army's command and staff training requirements. Constructive simulations are currently the most effective means to train commanders and staffs of division and larger units and are playing an increasing role in the training of brigade and smaller commanders and staffs. As the army transforms to the Unit of Action and Unit of Employment this training venue will become even more important to battle staff training and protection against digital skill decay. Limited resources and increasingly limited time reinforces the need for a family of simulations tailor-made for a given training objective across the Range of Military Operations (i.e.; reception, staging, onward movement, and integration –RSOI operation, high intensity conflict, and stability and support operations -SASO). The simulations PM CS manages and develops are used by the Army to satisfy, in part, its statutory training responsibility. These simulations and tools as the Army Constructive Training Federation (ACTF) are also used to train the Army in a Joint Service context.

C. PM FIELD OPERATIONS AND SUPPORT

MISSION: PM Field Operation and Support (PM Field OPS) provides Program Management and direction of the worldwide Life Cycle Contractor Support (LCCS) program. This includes Planning, Programming and Budget Execution as well as awarding and managing competitive services contracts to support and operate Training Devices, Simulator and Simulations (TDSS) deployed around the world. TDSS are centrally managed by DA (DAMO-TRS) and include those developed by PEO STRI PMs and TDSSs developed by weapon platform PMs and Major Army Commands. OPS supports TDSS in the Live, Virtual and Constructive domains and supports PEO STRI PMs with acquisition logistics support throughout the development process.

XXIII. PEO SIMULATION, TRAINING AND INSTRUMENTATION (STRI) (CONTINUED)

SBIR POC: Robert Forbis, (407) 384-3884, robert.forbis@us.army.mil

D. PM FUTURE FORCE (SIMULATION)

MISSION: PM Future Force (Simulation) [PM FF(S)], which is the integrating agent for PEO STRI, is responsible for orchestrating integrated and interoperable simulation solutions. PM FF(S): excels in providing the Warfighter the best possible training solutions and training environment supporting Army Transformation, current and future forces across the full spectrum of military operations; develops future collaborative training through a seamless Joint Live, Virtual, and Constructive Training Environment; leads as the Material Developer of training systems for the Future Combat System and other Army Future Force training systems; ensures enhanced Warfighter readiness and proficiency through Modeling and Simulation (M&S) applications in training and operational utilization and reuse of Common Product Components; and, provides the soldier and Army leaders with the resources to implement developments of Simulation and Modeling for Acquisition, Requirements, and Training (SMART) processes, capabilities and services.

E. PM INSTRUMENTATION, TARGETS AND THREAT SIMULATORS

MISSION: PM Instrumentation, Targets and Threat Simulators: manages the research, development, design, acquisition, fielding, modification, and capability accounting of major instrumentation, targets, and threat simulators required for developmental and operational test and evaluation (T&E) and training; manages the Central Test and Evaluation Investment Program (CTEIP) and Resource Enhancement Program (REP) for the Army; manages operations of targets for T&E and training of Army and Foreign Military Sales (FMS) customer troops; manages the Army Instrumentation, Targets, and Threat Simulators (ITTS) Long Range Planning Process; develops and implements policy direction and control over funding and execution of major instrumentation, targets and threat simulator/simulation projects; and, serves as the Army's single manager for acquiring targets, threat simulators/simulations, and major test instrumentation.

F. PM TRAINING DEVICES

MISSION: PM Training Device (PM TRADE) takes great pride in having provided a wide variety of training systems to support the soldier in the field for fifty years. Our legacy includes Army standards such as MILES, COFT and Flight/Combat Mission Simulators. PM TRADE developed and fielded instrumented training systems to the National Training Center at Fort Irwin, California, the Joint Readiness Training Center at Fort Polk, Louisiana, and the Combat Maneuver Training Center at Hohenfels, Germany which enables them to provide world class training and after action reviews for the training units. Currently, PM TRADE focuses on Live Environment Training Systems including training instrumentation systems to support home station training, Military Operations in Urban Terrain training, Maneuver Combat Training Center training, and digital ranges. Additionally, PM TRADE provides the Army's Tactical Engagement Simulation Systems and Precision Gunner Systems to support all aspects of live tactical engagement simulations, generic training threat simulators and training products to support digitized force training.

XXIV. PEO SOLDIER

SBIR POC: John Houston, 703-704-9479, john.houston3@us.army.mil
TJ Junor, 703-704-3310, tj.junoriii@us.army.mil

A. PM SOLDIER EQUIPMENT

MISSION: PM Soldier Equipment (PM SEQ) develops, fields, and sustains the world's best Soldier equipment to advance Soldiers' warfighting capabilities. PM Soldier Equipment procures, adapts, or develops state-of-the-art sensors, lasers, clothing, and other individual equipment.

AREAS OF INTEREST:

- Helmet-mounted vision enhancement for improved situational awareness in all visibility conditions
- Weapon sights for enhanced target acquisition
- Weapon-mounted and Soldier-carried sensors and lasers for accurate location of targets by pointing, illuminating, locating, and/or designating
- Ballistic and fragmentation protection
- Technologically advanced tactical and environmental protective clothing
- Individual chemical protective gear
- Personnel parachute and other airdrop equipment

B. PM SOLDIER WARRIOR

MISSION: Project Manager Soldier Warrior (PM SWAR) supports the Soldier-as-a-System concept through the acquisition of all warrior systems.

AREAS OF INTEREST:

- Ground Soldier Systems
- Air Soldier Systems
- Mounted Soldier Systems

C. PM SOLDIER WEAPONS

MISSION: Project Manager Soldier Weapons (PM SW) supports Soldiers through research and development, production, and procurement of current and future weapon systems, ammunition, and related target acquisition / fire control products. It is the mission of PM SW to guarantee U.S. Soldiers have an overmatch in individual and crew served weapons capabilities on present and future battlefields; maintain individual and crew served weapons' readiness for the Army through intensive management of the full acquisition lifecycle; be immediately responsive to the Soldier's wartime individual and crew served weapons requirements, and ensure interoperability with Soldier System programs to achieve the goals of the Objective Force Warrior.

AREAS OF INTEREST:

- Light to heavy machine guns
 - Grenade launchers
 - Snipers systems
 - Small arms ammunition
 - Remote weapons stations
 - Carbines, pistols, shotguns
 - Small arms ammunition
-