

Rapid Innovation Fund (RIF) Program



Cyber Security Workshop January 2015

Dan Cundiff

**Deputy Director, Comparative Technology Office
OASD (R&E) Emerging Capabilities & Prototyping**

E-mail: thomas.d.cundiff.civ@mail.mil Phone: 571-372-6807

Public Website: www.defenseinnovationmarketplace.mil/RIF.html



Background



- **Established by the Fiscal Year 2011 National Defense Authorization Act (Section 1073)**
 - **A competitive, merit-based program**
 - **Accelerate fielding of innovative technologies into military systems**

*Transition Small Business Technologies
into Defense Acquisition Programs*



Key Requirements



- ***Proposals or Projects:***

- **Satisfy an operational or national security need**
 - Accelerate or enhance military capability
 - In support of major defense acquisition program
- **Reduce:**
 - Technical risk
 - Cost: Development, acquisition, sustainment, or lifecycle
- **Completed within 24 months of award**
- **Cost is not more than \$3 million**

Selection Preference to Small Business Proposals



Implementation Strategy



- ***Competitive, Merit-Based Two-Step Process***

- **Step 1:**

- Issue Broad Agency Announcements (BAAs)
- Industry Response: 3 - 5 page White Paper + Quad Chart
- Evaluations are “Go” or “No Go”

- **Step 2:**

- Highest rated “Go” offerors invited to submit full proposals
 - Further competition – invite for proposal DOES NOT guarantee an award
- Highest-rated proposals lead to award

- ***Public Notice:***

- **Federal Business Opportunities: www.FedBizOpps.gov**
- **Research & Engineering Defense Innovation Marketplace**



RIF Interest & Workload

FY 2011 – 2014 Summary



Funds: > \$1 Billion (Research & Development)

Competitive Source Selection:

- 13 solicitations (BAAs)
- 19 Defense Components (Services & Agencies)
- 10,800+ White Paper Proposals
- 1,100+ Evaluators
- 600+ Full Proposals
- 367 Contract Awards
 - 329 awards to Small Businesses (90%)



FY 2014 Defense Participants



- **Military Departments:** Army, Navy & Air Force

- **OSD Activities / Defense Agencies:**

- Deputy Assistant Secretary of Defense (Emerging Capabilities & Prototyping)
- Deputy Assistant Secretary of Defense (Manufacturing & Industrial Base Policy)
- Chief Information Officer / Defense Information Systems Agency
- Defense Threat Reduction Agency
- Missile Defense Agency
- Defense Logistics Agency
- National Reconnaissance Office
- National Geospatial-Intelligence Agency
- Defense Intelligence Agency
- Defense Health Program
- Combating Terrorism Technical Support Office
- Joint S&T Office for Chemical and Biological Defense

- **Combatant Commands (CCMDs)**

- U.S. Special Operations Command
- U.S. Northern Command / North American Aerospace Defense Command
- U.S. Pacific Command
- U.S. Transportation Command

- **19 Defense Components**
- **278 Defense Requirements**
 - Army: 116
 - Navy: 34
 - Air Force: 88
 - OSD / Defense Agency: 40



Elements of a Good Proposal (1 of 2)

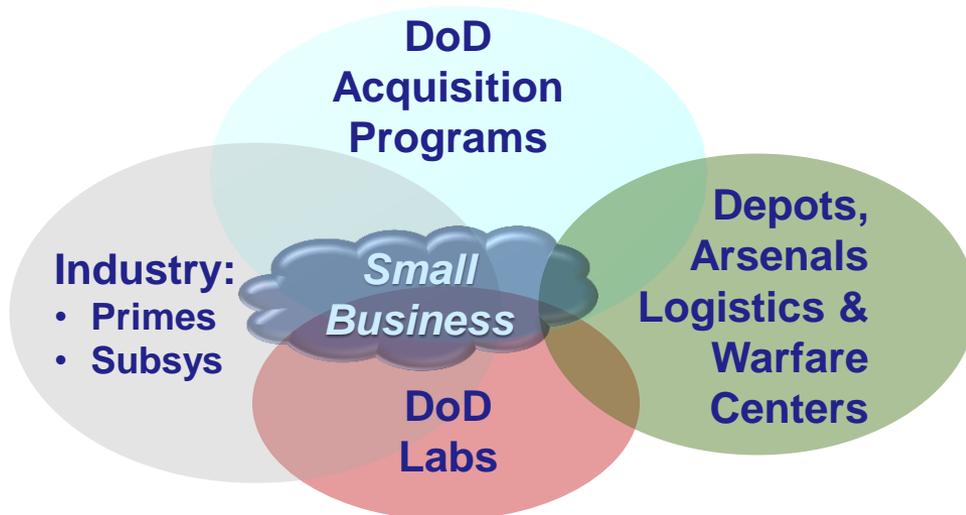


- Responds to a BAA requirement
- Relationship in place with key customers, or otherwise have an ability to reach-out and establish links -
 - DoD acquisition buyers / Program Executive Offices or Program Managers, depots, logistics or warfare centers
 - DoD prime or subsystem contractor who integrates RIF technology
 - DoD laboratory / technology provider

Selection Preference: Small Business Proposals

Source Selection Criteria:

1. Contribution to the Requirement
2. Technical Approach / Qualifications
3. Schedule
4. Cost





Elements of a Good Proposal (2 of 2)



Technology Readiness Level (TRL)

4 Component and/or breadboard validation in a laboratory environment

5 Component and/or breadboard validation in a relevant environment

- **Maturity Goal:**
TRL 6 – 9
- **Lower TRL accepted if:**
 - Breakthrough capability or operational game-changer
 - Cost neutral to the acquisition program
 - Accommodated within program schedule

6 System/subsystem model or prototype demonstration in a relevant environment

7 System prototype demonstration in an operational environment

8 Actual system completed and qualified through test and demonstration

9 Actual system proven through successful mission operations

*Technology Readiness Assessment Guidance - -
<http://www.acq.osd.mil/ddre/publications/docs/TRA2011.pdf>*



Cyber Security – Example Awards (2011-13 Projects)



Navy

Title: Automated Test and Retest for Information Assurance and Security

Develop an information assurance software tool that automates the testing of large complex information technology and weapon systems to identify potential vulnerabilities and system errors

Air Force

Title: Passive Surveillance System Cyber Analysis Tool

Demonstrate the capability to rapidly enumerate, characterize, and visualize an adversary threat system network to support full-spectrum cyberspace operations

Title: Hybrid Cloud & Security Solutions

Empower Life-Cycle Maintenance Command programs to leverage DoD cloud efforts and commercial cloud providers to deliver the most secure capabilities

Defense Agency

Title: Industrial Control Systems Cyber Intrusion Detection System

Develop hardware or software tools to detect, identify, classify and mitigate cyber threats to industrial control systems supporting critical infrastructure

Title: Insider Threat Identification

Demonstrate the ability to analyze trends, patterns and other relevant data to identify insider threats that exist on DoD networks



Cyber Security – FY 2014 BAA Requirements (Examples)



Navy

Cyber-Tools to Enhance Ongoing Military Operations

Develop capabilities and techniques to reduce vulnerability of operational networks and IT, including risks due to the proliferation of dual-use, commercial solutions and supply chains

Air Force

Enterprise Level Security (ELS)

Technologies for cross-platform security architecture that expands on existing capabilities to provide high assurance for end-to-end secure encrypted communications as well as Identity and Access Management

Protected Execution in Cloud Environments

Solutions for a protected system to assure integrity of systems, software, and data by preventing unintended or unauthorized leakage through compromised third party cloud infrastructures

Defense Agency

Defensive Cyber Maneuver

Provide solutions to identify and implement defensive countermeasures intended to make adversary attempts to operate on DoD networks more expensive

Protecting Personally Identifiable Information (PII)

Provide a solution to protect individual privacy by protecting PII



RIF FY 2015 - 2016 Milestones

FY 2015 Funds: \$225M Appropriated to OSD



Target Date	Action
1 Mar 2015	<ul style="list-style-type: none">▪ Publish RIF 2015 RIF Implementation Guidelines▪ Requirements from Defense Components
1 Apr 2015	BAA Release in FEDBIZOPPs
1 Jun 2015	BAA Closes: White Papers (WPs) due from offerors
1 Sep 2015	<ul style="list-style-type: none">▪ Components complete WP evaluations▪ Initial priorities and ranking
1 Oct 2015	Notify all offerors of WP disposition, invite full proposals
1 Nov 2015	Full proposals due, components start evaluation & negotiation
1 May 2016	FY15-funded RIF Awards Completed

Updates - - [http:// www.defenseinnovationmarketplace.mil/RIF.html](http://www.defenseinnovationmarketplace.mil/RIF.html)

For Questions / Additional Information --

<http://defenseinnovationmarketplace.mil/RIF.html>

Focal Point	Office	Phone	Email
Dan Cundiff	OSD (R&E) EC&P	571-372-6807	thomas.d.cundiff.civ@mail.mil
Sherry Freeman	OSD (OSBP)	571-969-0660	shermain.d.freeman.civ@mail.mil
Rob Saunders	Army (ASA / ALT)	703- 617-0279	robert.m.saunders14.civ@mail.mil
Tom Gallagher	Navy (ONR)	703-696-7954	thomas.j.gallagher@navy.mil
LtCol Dan Gallton	AF (SAF)	571-256-0332	daniel.a.gallton.mil@mail.mil
John (JR) Smith	AF (SAF)	571-256-0316	john.r.smith346.ctr@mail.mil



Resources for Industry: Defense Innovation Marketplace

(1 of 2)



Improve Industry Understanding of DoD Needs -- www.DefenseInnovationMarketplace.mil

The screenshot shows the website's navigation bar with tabs for HOME, RESOURCES, FAQs, NEWS & EVENTS, ABOUT, and CONTACT US. Below the navigation, there are several content sections:

- CONNECTING INDUSTRY & DoD**: A central section with a sub-header "The Defense Innovation Marketplace is a centralized market research resource:". It includes text for "For Industry" and "For Government".
- INNOVATION OPPORTUNITIES**: A sidebar section with three main items: "Resources for Industry", "Submit IR&D Data", and "Resources for DoD".
- NEW IN THE MARKETPLACE**: A section with three columns: "Strategic Documents", "Doing Business with DoD", and "News & Events".
- FEEDBACK**: A section with "Search Trends" and "What did you Miss?".
- TECHNOLOGY INTERCHANGES**: A section with "Aeronautical".

Resources for Small Business: Rapid Innovation Fund and DoD Small Business Links

Rapid Innovation Fund (RIF)

The Rapid Innovation Fund provides a collaborative vehicle for small businesses to provide the department with innovative technologies that can be rapidly inserted into acquisition programs that meet specific defense needs. RIF is administered by the Office of the Secretary of Defense (OSD) Assistant Secretary of Defense for Research and Engineering (ASD R&E) and Office of Small Business Programs (OSBP).

DoD will issue four solicitations in FY2012, titled Rapid Innovation Fund (RIF) Small Agency Announcements (SAA). Each solicitation will list the technology areas of interest, instructions for submission of a white paper and source selection criteria. The white paper will be used as the initial basis for award determination. Firms whose white papers are selected will be invited to submit a full proposal that will be used as the basis for selection of contract awards. Bidders can submit one or more ideas to one or more of the SAAs.

RIF Awards

- FY 2011 RIF Awards (see RIF)
- FY 2012 RIF Awards (see RIF)

Additional Information

- RIF Overview Briefing
- FY11 RIF Language (version 10/1)
- Small Business Resources

The screenshot shows the "Small Business Resources" page with several sections:

- Small Business Strategic Materials**: Includes "SBR Reauthorization Policy" and "SSTR Pre-Solicitation Release Topics".
- Small Business Offices**: Lists offices for the Army, Navy, and Air Force.
- Other Defense Agencies**: Lists various agencies like Defense Information Systems Agency, Defense Intelligence Agency, etc.
- Success Stories**: A section with a "Click Here to read Air Force Small Business Innovation and Transition success stories" link.
- Useful Guides and Materials**: Includes "Overview of Small Business Set-aside Programs", "DoD Guide to Contracting Opportunities", etc.
- Open Solicitations**: A section for "Requests For Information/Proposals (RFIs/RFPs)" with a "Talk to a DoD SBR Expert" button.

Marketplace: Resources for Industry

- DoD R&D Roadmaps; Investment Strategy
- Business Opportunities with the DoD
- Virtual Interchanges & Events
- Secure Portal for IR&D Project Summaries
- Top Downloads / Pages visited



Resources for Industry: Small Business Innovative Research (2 of 2)



Doing Business with the Department of Defense

<http://www.acq.osd.mil/osbp/sb/index.shtml>

- “How-To” work with Defense
- Guides on Marketing to Defense
- Programs for Small Business
 - SBIR / STTR
 - Mentor Protégé
- Contracting with Defense
- Small Business Training
- Conferences & Workshops
- Frequently Asked Questions

Talk to an Small Business Program Expert

<http://www.acq.osd.mil/osbp/sbir/contacts/sbir-contacts.shtml>

- 14 Points of Contact Across the Department of Defense