

Special Operations Forces Industry Conference



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Science & Technology (S&T) Broad Area Announcement (BAA)

- Solicitation Number: F2VUGo-BAA-USSOCOM-200900817
- BAA Updates: FedBizOps (www.fbo.gov)
- USSOCOM Biomedical R&D BAA is being revised and will be posted in near term
- White Paper Submittal & Evaluation Process
- Response Date 16 August 2010
- BAA submissions & questions shall be emailed to USSOCOM-STBAA@SOCOM.mil

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S&T BAA Research Areas of Interest

- **Research Area 1 - Mobility Platforms (Ground/Air/Maritime)**
 - Advanced situational awareness in all environments
 - Increased operational capacity and capabilities
 - Low Observable (LO) and counter LO technologies
 - Advanced mobility platforms to access sensitive or denied areas
 - Multi-domain mobility platforms
 - Shock-mitigating technologies
 - Enhanced guidance/geo-location systems
 - Advanced unmanned systems

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S&T BAA Research Areas of Interest (cont)

- **Research Area 2 - Power and Energy**
 - Lightweight, alternative power sources/technologies
 - Advanced surface craft power systems
 - Advanced energy storage for underwater vehicles
 - Submersible, multi-fuel engines

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S&T BAA Research Areas of Interest (cont)

- **Research Area 3 - Weapons**
 - Precision guided munitions
 - Tunable weapons
 - Advanced ammunition
 - Advanced breaching technologies
 - Advanced integrated day/night fire control
 - Advanced materials/coatings
 - Remotely operated weapons/technologies
 - Increased electronic attack capabilities and capacity; portable systems

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S&T BAA Research Areas of Interest (cont)

- **Research Area 4 - Materials**
 - Advanced lightweight armor/materials
 - Transparent ballistic armor for mobility platforms
 - Personnel identification technologies
 - Signature reduction technologies
 - Personnel monitoring technologies
 - Individual protection
 - Advanced adhesives

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S&T BAA Research Areas of Interest (cont)

- **Research Area 5 - Reconnaissance, Surveillance, and Exploitation**
 - Tagging, Tracking, and Locating devices/technologies
 - Advanced micro-/nano-scale sensors
 - Advanced visual augmentation systems
 - Persistent surveillance including unattended sensors
 - Advanced unmanned systems
 - Foliage penetrating technologies
 - Automated threat detection and cueing

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S&T BAA Research Areas of Interest (cont)

- **Research Area 6 - Command, Control, Communications, and Computers (C4)**
 - High bandwidth technologies
 - Secure mesh, self-forming mobile ad-hoc networks
 - Multi-level security systems
 - Advanced multi-function software defined radios
 - Advanced data management
 - Information assurance
 - Advanced antennas
 - Cyberspace operations-exploitation and counter-threat technologies

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S&T BAA Research Areas of Interest (cont)

- **Research Area 7 - Intelligence**
 - Advanced information processing techniques
- **Research Area 8 - Modeling and Simulation**
 - Tailored virtual training for language and regional expertise capability
 - Advanced visualization, training, and mission planning/rehearsal systems
 - Integrated signature modeling for Infrared (Near, Short Wave, Long Wave), thermal, acoustic, and radar cross sections

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S&T BAA Research Areas of Interest (cont)

- **Research Area 9- Influence Technologies**
 - Psychological Operations; advanced multi-media techniques
- **Research Area 10 - Environmental Forecasting**
 - Lightweight, highly localized weather forecasting systems/technologies

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Science & Technology (S&T) Request For Information (RFI)

- Solicitation Number: RFI_ESS-SOF_20100405
- RFI Updates: FedBizOps (www.fbo.gov)
- Purpose: Technology Demonstration Paper Submittal to gain information leading to Government and industry collaboration for development of technologies and capabilities in support of SOF
 - NOT a solicitation for proposals, abstracts, or quotations
- Response Date: Through 30 July 2010
- Email RFI submissions to Tech_Exp@socom.mil

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S&T RFI Areas of Interest

- Interested parties invited to submit papers addressing innovative technologies and capabilities for use in austere environments. Focus Areas:
 - Power generation in support of team houses, small Forward Operating Bases, and remote tactical applications
 - Short (unimproved) field capable airborne casualty evacuation platforms requiring minimal maintenance and ground support equipment
 - Manned or unmanned delivery systems for rapid land and air resupply to remote locations
- Candidates may be invited to demonstrate their technologies and/or capabilities at a future experimentation event

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Questions?



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