

Call for White Papers

The FY12 White paper process has commenced with this package. The package includes a set of instructions and samples to guide you.

Although white papers may be submitted to the undersigned AT ANY TIME of the year, we hold this deadline-sensitive submission period to provide a focused product to your Business Development Committee early each calendar year. Accordingly, this solicitation period is easily the most opportune time to make a big impact on the future course of events. Papers received beyond the deadline will be evaluated during the following year cycle

In addition to the new technology thrusts justified by your white paper submissions and the potential opportunity to present your idea to those persons here and off-site (with potential funding in support of your ideas), there are additional reasons, important to you, for submitting white papers. While a white paper in and of itself cannot serve as the basis for a contract award, a really good one can serve to pique customer interest which might lead to a subsequent Request for Business Development Proposal submission. This, in turn may be used as the basis for contract award if your proposal equals or exceeds the quality of the original white paper. In fact we had two such incidences in FY11 likely to generate further action. We strongly encourage your participation to the maximum extent to support that BDC contention.

The following pages to this introductory letter contain the JSSAP program focused areas of interest plus the always acceptable "Other" category. There are two more attachments containing updated PM/SW and PM/MAS areas of interest. We are endeavoring to also solicit other service areas of interest so please monitor your email plus the NSAC website for possible updates as well. In this package you will also find more detailed instructions plus a sample full blown package example for your information

Submissions must be received no later than **23 September 2011** via **email** to the undersigned at frank.puzycki@us.army.mil. Please pay particular attention *to assuring that no corporate identification information* is contained on **any** pages of the white paper package other than the mandatory first page cover sheet which affirms the absence of any form of restricted data. As always, do not hesitate to call or write should you have questions regarding this process.

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NSAC - White Paper

Research Themes:

- Themes development process rested on: Use of Six Sigma Process analyzing and rationalizing the following inputs: Use response to detailed survey, NSAC White Papers, NSAC Research Committee derived themes

Customer Base (Think Joint)

- JSSAP office - Joint-Centric Activity Harmonizing Requirements & Providing Small Arms Technology For All the Armed Services

Outcomes:

- Mechanism for creating a strong supplier influence on the mid to long term technology strategy within NSAC.
- White Papers judged by the Research Program Committee to be of the highest quality will qualify their submitters for an opportunity to brief our key PM's as well as other Joint Services partners in a face-to-face format.

Research Themes:

- **Soldier Power**
 - Generate, recharge, detach, centralize miniaturize and swap power sources to maintain operational effectiveness
- **Small Arms Weight Reduction**
 - Reduction of Physical and Cognitive Burden on the Dismounted Soldier. Technologies related to the capability to significantly reduce cognitive load associated with performing the Dismounted Soldier tasks/functions as related to small arms weapons.
- **Technical Fire Control:**
 - Technologies related to the detection, identification, and acquisition of targets, including range, weapon/platform state, direction finding and ballistic solution determination for individual and crew served weapon dynamic application of forceful effects.
- **Tactical Fire Control – Small Combat Unit**
 - Technology enabling units to optimally engage threats with their weapons and effects in a combinatorial employment to overwhelm the short duration threat targets and expediently dominate the battlespace
- **Lethality and Utility**
 - Technologies related to increasing the terminal performance of small caliber munitions to include bullets and warheads. This area also includes new and non-traditional applications of small arms projectiles such as surveillance and information gathering, and signature reduction
- **New Concepts & Applications**
 - Non traditional technology leading to leaps in capability, such as non kinetic energy lethality mechanisms or energy systems that can be scaled from lethal to less than lethal; warheads or projectiles that can offer lethal and less then lethal capability, and systems that automate the target acquisition and take weapon aiming out of the hands of the soldier.
- **Smart Munitions**

- This includes munitions that are able to be steered to the target, are able to course correct trajectories, or can sense and seek targets. Munitions would be launched from conventional weapons or tubes and attachments and utilized in conjunction with the tactical and technical fire control capabilities.
- **Tag, Mark, Identify**
 - Technologies leading to the ability to identify a specific individual in a crowd or a specific vehicle, overtly, covertly and with the ability to reverse the identification. Technologies related to ability to determine Friend, Enemy, Neutral, and Noncombatant ID
- **Material & Process Technology**
 - Materials and processes leading to increased life, lighter weight, reduced resistance or reduced logistics and maintenance.
- **Modeling & Analysis**
 - Constructive and virtual capability leading to replicating performance of small arms systems in the hands of soldiers in an operational environment. Force on Force at the individual or squad level. Also include advancing engineering modeling capability to facilitate virtual small arms design.
- **“OTHER”**
 - Any other unique concept offering performance, logistical or economic benefits to the infantryman in the small arms-related mission.