CANDIDATE INFORMATION

Name	James Miller
Title	Director, Business Development
Organization	Practical Energetics Research
Organization Type	Small Business
Address	6767 Old Madison Pike, Suite 410 Huntsville, AL 35806
Email	james.miller@per-hq.com
Phone	

CANDIDATE STATEMENTS

Explain how your background, training, experience and/or personal qualities support your candidacy to assume a governance position on the Executive Committee. Provide resume as a separate attachment.	as a former member of the ExCom, i understand the issues facing the NAC and our member organizations. As the business development director of a small business, OTAs are critical to our companies' survival and growth.
What do you see as the most significant challenge(s) facing the business type you will represent and how would you propose to address those challenges if elected?	The ability to quickly be awarded contracts with the most execution flexibility is a constant challenge. Many FAR clauses inhibit our ability to execute R&D with minimal overhead requirements. I would want to work with the Government to limit FAR creep and shorten timelines for award of new OTAs.
Please describe the importance of the NAC to your organization and provide a synopsis of the participation in NAC/DOTC since becoming a member (e.g., number of proposal submissions, awards, industry days and membership meeting attended).	Almost all of our prime contracts are through OTAs. This significantly minimizes the bureaucratic overhead and inefficiencies that impede our ability to execute basic R&D and transition to larger insertion programs. As a non-traditional defense contractor, OTAs allow us to win and execute a larger number of programs as a sub to large traditional prime contractors.

WILLINGNESS TO SERVE CERTIFICATION

Signature

Date 05/29/2025

NAME: Miller, James F.

EDUCATION:

MS, Operations Research, University of Alabama in Huntsville, 1993
BS, Computer Science, Auburn University, 1983

SALIENT SKILLS:

- 43 years total technical experience.
- 39 years leadership / management experience.

EXPERIENCE:

03/2020 – 9/30/2023 Chair, Executive Committee National Armaments Consortium

- Lead the National Armaments Consortium (NAC) Executive Committee (ExCom) through an unexpected change in leadership at a time when the Defense Ordnance Technology Consortium (DOTC) went from receiving funding of $1.5B/year to being closed due to Government processes that were unable to sustain the workload. As member of the leadership team, helped modify old processes and development new processes to restart the Government program and run at a higher efficiency.
- Lead the ExCom to $7.5M cash reserves and instituted several new initiatives to use members reserve funds to generate a strategic communications program, establish congressional liaison, and develop multiple educational efforts.
- Lead the NAC in winning and setting up two new consortia for the Aviation and Missile Technology Consortium (AMTC) and the Naval Energetics Science and Technology (NEST) consortium.
- As DOTC Co-Chair, worked with the Army Contracting Command – New Jersey (AAC-NJ) Senior Contracting Official (SCO) to resolve a complex contract dispute.
- Oversight of activities of Executive Director and Senior Vice President for Strategic Engagement.
- Oversight of strategic planning and yearly execution including budget development and execution.

10/2017 – 9/30/2023 Executive Committee National Armaments Consortium

- The Executive Committee serves as a board of trustees for the consortium, developing strategic plans, annual budgets, and comminates directly with senior DoD officials. The board meets quarterly to discuss issues, provide direction to consortium initiatives, and has fiduciary responsibilities.
- Was member of the Governance and Continuance subcommittee.

10/2018 – 9/30/2021 Chair, Executive Committee AMTC

- Served as the first ExCom chair setting up policies, procedures, and helping the Army Aviation and Missile Center (AvMC) establish the program.
- Provided Subject Matter Expertise (SME) to the AvMC Technical Director and the AMTC Program Manager.

10/2020 – 9/30/2023 Executive Committee NEST

- Worked with the Government PM and the NAC Executive Director to establish the first ExCom setting up policies, procedures, and helping establish the program.
- Provided Subject Matter Expertise (SME) to the Naval Surface Warfare Center – Indian Head (NSWC-IH) Technical Director and the NEST Program Manager.

02/2024 – Present Director of Business Development Practical Energetics Research, Inc.

- Lead business development activities including proposals, strategic planning, and pipeline management
- Serve as MSE for warhead development and OTAs
- Develop Program Plan and provide technical expertise on the warhead designs and lethality assessments for Next Generation Counter Unmanned Aerial Systems warhead.

- Develop Program Plan and provide technical expertise on the warhead designs and lethality assessments for Guardian dual-mode Advanced Precision Kill Weapon System warhead.
- Develop Program Plan for the fabrication of the Standard Missile 3 Glide Phase Interceptor.
- Led Business Development activities including responsibility for RFI responses and proposals

10/2023 – 01/2024 **Consultant/Owner** **JFM DefCon**

- Provide SME consultations on Other Transaction Agreements (OTA) proposal development, proposal review, strategic planning, and assist in solving agreement program management issues for multiple companies.
- Provided warhead and lethality SME advice to Practical Energetics Research.

05/2023 – 09/31/2023 **Senior Staff** **Dynetics, Inc.**

- Provide SME consultations on Other Transaction Agreements (OTA) proposal development, proposal review, strategic planning, and assist in solving agreement program management issues.
- Assist setting up the MAC Hypersonic Test Bed (MACH TB) program
- Participate in a variety of proposal efforts including supporting capture management, proposal management, technical review teams, and management review teams.

10/2009 – 05/2023 **Director of Other Transaction Agreements** **Dynetics, Inc.**

- Program Manager for the LowER AD technology development and missile testbed development DOTC contracts
- Warhead and detonation Subject Matter Expert for the TOW 2B Insensitive Munition mitigation development and testing. Also served as the program manager for this DOTC contract.
- Principal Investigator for the development of the HELLFIRE alternate heavy external fragmentation sleeve, now designated as the AGM-114-R9E.

08/2018 - Present **Business Operations Manager** **Dynetics Technical Solutions**

- Managed business operations of the subsidiary including inter-company transfers, profit/loss reporting, and managing overhead and G&A budgets.

02/2016 – 08/2018 **Deputy Division Manager** **Dynetics Technical Solutions**

- Assit in the management and leadership of over 150 employees
- Program Manager for the LowER AD technology development and missile testbed development DOTC contracts
- Warhead and detonation Subject Matter Expert for the TOW 2B Insensitive Munition mitigation development and testing. Also served as the program manager for this DOTC contract.
- Principal Investigator for the development of the HELLFIRE alternate heavy external fragmentation sleeve, now designated as the AGM-114-R9E.

01/2004 – 02/2016 **Department Manager** **Dynetics Technical Solutions**

- Program Manager for the LowER AD technology development and missile testbed development DOTC contracts
- Warhead and detonation Subject Matter Expert for the TOW 2B Insensitive Munition mitigation development and testing. Also served as the program manager for this DOTC contract.
- Principal Investigator for the development of the HELLFIRE alternate heavy external fragmentation sleeve, now designated as the AGM-114-R9E.
- Key participant in the Extended Area Protection and Survivability (EAPS) program providing warhead design, penetration analysis, performance analysis, test planning, and test data analysis. Provide programmatic support, to include schedule and risk assessments.
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01/1992 – 09/2023 Sr. Warhead and Lethality Technical Lead Dynetics

- Program Manager for the Low cost Extended Range Air Defense (LowER AD) missile development and testbed development program for AvMC through DOTC
- Warhead and detonation Subject Matter Expert for the TOW 2B Insensitive Munition mitigation development and testing. Also served as the program manager for this DOTC contract.
- Principal Investigator for the development of the HELLFIRE alternate heavy external fragmentation sleeve, now designated as the AGM-114-R9E.
- Key participant in the Extended Area Protection and Survivability (EAPS) program providing warhead design, penetration analysis, performance analysis, test planning, and test data analysis. Provide programmatic support, to include schedule and risk assessments.
- Lead investigator and primary designer for the Shadow Box armor designed to defeat Explosively Formed Penetrator (EFP) Improvised Explosive Devices (IED). Responsible for the design, penetration analysis, test planning, and test data analysis.
- Key participant in the Advanced Precision Kill Weapon System (APKWS) Block II warhead and fuze development program. Contributions included development of the system performance specification, the statement of work, evaluation of contractor proposals, program planning, budget planning, scheduling, review of warhead designs, review of fuze designs, review of test plans, development of independent performance verification and risk reduction plans for the Government. Developed a novel tandem warhead design and a novel internal fragmentation method.
- Contributed to the design, integration, development, test and evaluation, and analysis of the HELLFIRE Mod K warhead development. Contributions included fragment size analysis and design, fragment penetration analysis, fragmentation analysis, analysis of tantalum and steel sleeves, program planning, program management, test planning, test setup design, and data analysis.
- Contributed to the design, analysis, test and evaluation of the TOW Bunker Buster warhead program. Contributions included test planning, warhead design assessment, fragmentation analysis, Military Operations in Urban Terrain (MOUT) wall-penetration analysis, fragment penetration analysis, system integration, schedule development, and program management support.
- Responsible for the review and oversight of the Brilliant Anti-Tank (BAT) warhead Pre-Planned Product Improvement (P3I) warhead development program. Defined warhead test program. Coordinated with the prime hardware contractor, Government Project Office, the US Army Aviation and Missile Command (AMCOM), and Army Research Laboratory (ARL). Modeled shaped charge performance. As a member of the BAT P3I Integrated Product Team (IPT), developed and coordinated the BAT P3I Qualification test matrix. Developed test matrices for various phases of the BAT P3I Multi-Point Initiation (MPI) warhead development. Reviewed the Electronic Safe and Arm (ESAD) development for the MPI warhead.
- Program Manager for multiple tasks providing test management, test data analysis, and lethality assessments for BAT P3I. Coordinated efforts of multiple agencies to conduct a blast lethality test in conjunction with BAT P3I warhead test program. Led the technical evaluation of a warhead technology program that developed a unique approach to defeat Explosive Reactive Armor (ERA). Managed several tasks to conduct lethality and effectiveness analyses of advanced smart weapon technologies. Characterized system errors, aim-point accuracies, warhead characteristics, and warhead/target interaction. Performed effectiveness studies that concentrated on trade-offs of various system delivery parameters and warhead characteristics. Conducted lethality analyses that concentrated on the effects of various weapon system parameters on the kill methods and their associated probabilities of contribution to overall target destruction.
- Principal Investigator for a Phase I SBIR for the development of the PUMA (Performance and Utility Measure Assessment program) analytical warhead and lethality code. Developed warhead penetration and target interaction modules. Responsible for code development using Microsoft Visual Basic.
- Principal Operations Analyst and Program Manager for the design and analysis of an extensive set of experiments to determine the sensitivity of explosive reactive armor detonation from impact of explosively formed penetrators (EFPs). Conducted data reduction that included the development of a mathematical model to predict detonation. Conducted warhead design trade-offs analysis using BRL penetration and residual energy

codes for EFPs. Used linear programming to solve for optimal mass, velocity, length-to-diameter ratio, and distention. These effects were directly related to weapon system effectiveness to allow concentration of experimental efforts on the most important discriminators.

10/1989 – 01/1992 **Systems Analyst** **Kaman Sciences**

- Program Manager and Principal Analyst to define a concept for employment of Unmanned Aerial Vehicle – Short Range (UAV-SR) to perform Battle Damage Assessment (BDA) for indirect-fire smart weapons. Designed a simulation of the BDA process using the G2 object-oriented knowledge-based artificial intelligence system. The simulation modeled target and warhead interaction and sensor performance to qualitatively determine the damage sustained. The results led directly to the validation of measures of merit for weapon system effectiveness studies of deep-fire smart weapons.

07/1988 – 10/1989 **Systems Analyst** **Dynamic Analysis, Inc.**

- Managed support to the TOW Project Office. Provided an independent review of tactical software modifications at the B5 and C5 level. The task also included the development and coordination of the Continuity of Operations Plan (COOP) and the Post Deployment Software Support (PDSS) transition plan.

PUBLICATIONS

- Sean Hawkins, Dr. Jason Gilliam, Michael Kennemer, Joel Williams, and James Miller, “Foreign Mortar and Artillery Fuze Vulnerability to Spherical Fragments”, AMRDEC TR-RDMR-WD-11-38, 2011.
- Jason Gilliam, Michael Kennemer, and James Miller, “Mortar Target Explosive Vulnerability to Spherical Fragment Impact,” AMRDEC TR-AMR-PS-07-02, 2006.
- Jason Gilliam, Darin Kielsmeier, James Miller, et. al, “Single Initiated, Multi-Purpose Shaped Charge and Blast Fragmentation Tandem Warhead Demonstration,” AMRDEC TR-AMR-PS-05-18, 2005.
- James Miller, Danny Konkle, Shane Strickland, and James Wilbeck, “The Performance and Utility Measure Assessment Software Program (PUMA),” AMRDEC TR-98-AMCOM-R062-079, 1998.
- James Miller, "Deep Fires Lethality Methodology," Simulation Multi-Conference, 1996.
- James Wilbeck, Bob Frey, Bill Jolly, and James Miller, "Sensitivity of Explosive Reactive Armor Initiation to High Velocity Fragment Impact", Hypervelocity Impact Symposium, 1994.
- James Miller, "Battlefield Damage Assessment for Smart Weapons," Smart Weapons Conference, 1990.