National Armaments Consortium (NAC)
Executive Committee Member Application Form

CANDIDATE INFORMATION

Name: Steve Cornelius

Title: Senior Director

Organization: Kord Technologies, LLC

Organization Type: Non-Traditional Defense Contractor (Large Business)

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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 vitae as a separate attachment.

I lead the Kord Operating Unit activities with a focus on missile systems and high energy laser weapon system development. My responsibilities include advanced weapon system development and integration research and development, aerodynamics and thermal analysis, advanced composite materials, solid rocket propulsion system prototyping and component design, analysis, and fabrication, and program management for the company.

I am a former member of the Senior Executive Service (SES) and served as Director of Weapons Development and Integration Directorate of the US Army Aviation and Missile Research, Development and Engineering Center (AMRDEC). There I led Army research, development, and engineering activities for future Army tactical missiles. I also served as the Army SES Director for Missile Development and as the Deputy Program Executive Officer for Missiles and Space. I led and served on executive technical advisory boards for the Army, the Office of the Secretary of Defense (OSD), and Department of Energy. I hold four U.S. Patents, authored over 40 technical publications, and was awarded two Army Research and Development Achievement Awards for my work on tactical missile development.

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 most significant challenge that I see is the growing timeline between white paper submission and award. I realize that this is due to many factors including delays in technical, contractual, and legal reviews to name but a few. The length of time to get started an OTA contract underway has certainly diminished the attractiveness of the whole OTA value proposition – fast prototyping of critical new defense technologies. I will collaborate with senior leaders across the government customer base to identify systemic roadblocks and work with them to develop effective solutions that are agreeable to the stakeholder network of government and NAC industry partners.

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).

Kord's participation in the NAC activities has been and continues to be a major contributor to Kord's growth and success. The funding and contracts for Kord are almost exclusively Other Transaction Authority activities for the Army, Air Force, and Navy. I am a currently one of three NAC representative on the AMTC ExCOM. Our OTA efforts to date are primarily through DOTC and AMTC. Kord is currently executing three DOTC and three AMTC efforts as prime and have recently been selected for a new DOTC award (currently in SOW development/proposal stage). We have recently successfully completed one DOTC and one NSTIC effort. I am a currently NAC representative on the AMTC ExCOM. My Kord team

has participated in DOTC and AMTC industry days, submitted approximately 40 white papers as a prime, and 20 as a teammate.

WILLINGNESS TO SERVE CERTIFICATION

I have read and understand the NAC Consortium Member Agreement (CMA) and the Ordnance Technology Base Agreement. Upon being elected as an NAC Executive Committee member, I agree to abide by all the requirements and uphold the responsibilities of this position as stated in the CMA and the Executive Committee Member position description.

//s// C. Stephen Cornelius	6/27/2022
Signature	**Date**

Steve Cornelius

Senior Director
Kord Technologies, LLC

Summary

Steve Cornelius is the Senior Director of Kord Technologies LLC., a rapidly growing, wholly-owned subsidiary of KBR, delivering advanced engineering and weapons systems, training, and services to NASA and the Department of Defense. Cornelius leads the Kord Operating Unit for the Applied Physics division sector with a focus on missile systems and directed energy weapons development. Cornelius oversees advanced weapon system development and integration, internal research and development, systems engineering, directed energy weapons, advanced aerodynamics and thermal analysis, advanced composite materials, solid rocket propulsion systems and components prototyping, and multiple program management efforts.

Cornelius is a former member of the Senior Executive Service (SES) and served as Director of Weapons Development and Integration Directorate of the US Army Aviation and Missile Research, Development, and Engineering Center (AMRDEC). There he led Army research, development, and engineering activities for future Army tactical missiles. Cornelius served as the Army SES Director for Missile Development and as the Deputy Program Executive Officer (Acting) for Missiles and Space. He led and served on executive technical advisory boards for the Army, the Office of the Secretary of Defense (OSD), and Department of Energy. He holds four U.S. Patents, authored over 40 technical publications, and was awarded two Army Research and Development Achievement Awards for his work on tactical missile development.

Professional Experience

Senior Director, Kord Technologies, LLC– a wholly-owned subsidiary of KBR. Nov 2020 – Present

Senior Vice President, Kord Technologies, Inc. May 2014 – Oct 2020. Responsible for all Engineering Activities a Kord (a Woman-Owned Small Business) with a focus on missile technologies, advanced materials, solid rocket propulsion component and system design, analysis and fabrication, advanced aerodynamics and thermal analysis. Kord Technologies, Inc. was purchased by Centauri in 2019 and subsequently by KBR in 2020.

Director, Weapons Development and Integration (WDI), Aviation and Missile Research, Development, and Engineering Center (AMRDEC); ***Senior Executive Service (SES) Tier 1***, Dec 2012 – May 2014. Served as the Director, Weapons Development and Integration, comprising ~1050 government, military and contractor personnel and executed a program budget of approximately $450M annually. Planned and executed technical research, development, and engineering programs and demonstrations for research and support to weapon system

programs for long-range fires, close-combat, air-delivered, and air defense weapons. Cornelius led the Army's development of technologies for missile sensors; guidance, navigation, and control; anti-tamper; miniaturized computers and electronics; fire control radars; tactical propulsion; warhead integration; active protection systems; composite structures; weapons and sensor platform integration; corrosion prevention and control; and propulsion life-cycle sustainment activities. Provided executive oversight of all AMRDEC special program activities.

Associate Director for Missile Development and Director for Weapons Sciences, (AMRDEC); ***Senior Executive Service (SES) Tier 1***, Apr 2009 – Dec 2012. Directed the strategic planning for science and technology programs and executed efforts directed towards the development of materiel for new or improved Army guided weapons, missiles, free rockets, directed energy weapons, and associated supporting technologies, including aero-thermo chemistry, guidance and control sensors and seekers, fire control, air defense radars, launchers, propulsion, anti-tamper efforts, and modeling and simulation.

Director for Systems, Weapons Development and Integration Directorate, AMRDEC, Oct 2008 – Apr 2009. Directed and coordinated all WDI missile technology efforts. Additionally, managed AMRDEC developmental and support activities for Hellfire, Guided Multiple Launch Rocket System (GMLRS), and special programs. Was senior advisor to the AMRDEC Director for Aviation and Missile Technology on missile development activities and programs.

Deputy Program Executive Officer (Acting) – PEO Missiles and Space, Oct 2007 – Oct 2008. Competitively selected to serve Deputy Program Executive Officer – Missiles and Space (DPEO) for an Army Acquisition Executive (AAE)-sponsored developmental assignment. Represented the PEO-MS for major acquisition decisions, led briefings to senior defense leaders, and in special program oversight.

Deputy Dir., Propulsion & Structures Directorate, (AMRDEC), Oct 2005 – Oct 2007.

Chief, Systems & Warheads Function, Propulsion and Structures Directorate, Nov 2003 – Oct 2005.

Missile System Design Engineer, Man-in-the-Job, Systems & Warheads Function, Army Missile Command (MICOM), Propulsion & Structures Directorate May 1993 – Nov 2003.

Mechanical Engineer, Warhead & Fuze Function, Structures Directorate, MICOM, May 1986 – May 1993.

Education

Master of Business Administration, Massachusetts Institute of Technology; Cambridge, Massachusetts 2002

Master of Science in Engineering (Mechanical and Aerospace), University of Alabama in Huntsville; Huntsville, Alabama 2000

Bachelor of Science in Mechanical Engineering, University of Alabama; Tuscaloosa, Alabama 1986

Honors and Awards

Meritorious Civilian Service Award
University of Alabama Distinguished Engineering Fellow
University of Alabama in Huntsville Distinguished Engineering Alumni
US Army Research and Development Achievement Award (2)
Commanders Award for Civilian Service

Professional Memberships and Affiliations

Huntsville Rotary Club – Past Board of Directors
National Space Club – Past Huntsville Board of Directors
College of Engineering Dean's Advisory Board, University of Alabama
Department of Mechanical Engineering Executive Advisory Board, University of Alabama
Department of Aerospace Engineering and Mechanics Advisory Board, University of Alabama
Leadership Huntsville/Madison County Association
Aviation and Missile Technology Consortium (AMTC) Executive Committee