



TELECOMMUNICATIONS SPECIALIST, GS-13

PURPOSE OF POSITION AND ORGANIZATIONAL LOCATION:

The primary purpose of this position is: to manage and direct programs and projects in support of Nuclear Command, Control, and Communications (NC3) systems and capabilities. Provides technical expertise as telecommunications specialist in establishing quantitative system-wide performance baselines; conducting trend analysis; integrating new command, control, and communications (C3) systems into the NC3 enterprise; identifying system deficiencies; recommending solutions and verifying the effectiveness of corrective actions; and developing recommendations and procedures needed to improve overall system performance. This program is of national scope, interest, and significance and constitute a major segment of critical command-wide mission program of US Strategic Command.

The organizational location of this position is: NC3 Enterprise Center, Systems Engineering & Integration (SE&I) Division, Performance and Capabilities Branch (PC), Ft. Meade, MD.

ORGANIZATIONAL GOALS OR OBJECTIVES:

The organizational goals or objectives of this position are: to apply and remain up to date on systems engineering best practices while remaining agile when translating mission and operational requirements into appropriate technical specifications and solutions. Apply established standards, and, when necessary, develop standards, to ensure seamless interoperability across the NC3 enterprise. Provide technical expertise in system engineering complex NC3 systems to ensure seamless interoperability across the NC3 enterprise.

DUTY 1: 30% Critical

As the technical expert, engages and advocates NC3 solutions in support of joint strategic deterrence. Supports system allocation, modernization, force management and analysis, to include integrating, coordinating, prioritizing of NC3 mission capability needs, command and control system and architectural development, support for emerging technologies across the mission areas. Provides continual guidance on capabilities, limitations, and peculiarities of solutions under consideration. Advocates solutions and provides justification in support of programs/projects. Serves as technical lead and subject matter expert on working and planning groups concerned with future systems, requirements, and/or specifications. Performs work which involves analyzing, planning, scheduling, and coordinating the development of technical solutions that provide a critical and enduring national and DOD capability. Work routinely crosses organizational lines within federal agencies and other organizations to advocate, participate in studies and to field capabilities. Presents sound arguments to successfully negotiate agenda items, often times in critical audiences. Provides NC3 program planning, assessment, prioritization, coordination, documentation and advisory services at the national level for a wide variety of complex interrelated issues regarding communications connectivity, task force readiness, and component command support.



DUTY 2: 25% Critical

Serves as technical advisor of NC3 SE&I Performance and Capability. Applies technical expertise to ensure assigned projects remain consistent with NC3 program objectives, costs, schedules, performance criteria, and existing policies. Provide technical recommendations for the installation, modification, maintenance, operation, and support of both existing and new telecommunications systems. Evaluates commands/programs requirements to determine system or equipment type from a technical and economic standpoint. Provides telecommunications input into computing system operational design and proposal review. Understands NC3 data configurations and capabilities to evaluate system and system of systems performance levels. Evaluates contractor proposals to determine their capability to fulfill operational requirements. Recommends solutions to resolve difficult and controversial issues arising from unusual telecommunications requirements. Works with customers to assess mission requirements, needs, facilities, and systems involved. Performs analysis of user's needs and evaluates various equipment for feasibility and compatibility. Performs complete technical evaluation of the most difficult projects and translates customer requests into operational concepts. Prepares plans, drawings, manuals, and technical evaluations/specifications. Develops milestones and follows-up on required actions. Tests and implements systems. Surveys existing and/or proposed services for efficiency and economy. Resolves unusual emergency problems. Researches trends and patterns to deviate from traditional methods, and to implement new or improved communication methods and procedures.

DUTY 3: 20% Critical

Plans, organizes, and oversees long- and short-term projects involving legacy and future systems that directly affect the NC3 system capabilities. Employee is the technical authority and recognized expert in a uniquely critical program involving a sensitive and complex major interagency communications deterrence and response system of national scope, interest, and significance having joint service and other DoD agencies impact, as well as a number of major federal, state and local systems/aerospace industries. Employee uses their knowledge to make decisions or recommendations to significantly change, interpret, or develop policies or programs throughout the command. The employee coordinates objectives and plans one or more specialized communications programs, by making recommendations to allow for conflicting program requirements.

DUTY 4: 15% Critical

Provides command functional and program oversight of NC3 capabilities. Serves as a project officer responsible for the successful implementation of various telecommunications programs/projects. Reviews plans and specifications to ensure adequate analysis and justification of requirements, realistic cost estimates, and implementation dates, and considering supporting requirements such as scheduling deliveries, availability of installation and test personnel, site preparation, and similar concerns. Recommends and provides technical advice on airborne, ground mobile, and fixed command control systems to the Branch and Division Chiefs. Provides oversight to ensure interoperability of assigned NC3 platforms and network infrastructure meets NC3 mission requirements. Develops and maintains operational concepts, procedures and directives which establish the basis for advanced technology design and acquisition for the fixed ground, maritime and mobile platforms. Responsible for de-conflicting interoperability issues involving NC3 resources and coordinating new technology with OSD, Joint Staff and the NEC staff officers responsible for acquisition and s, platforms and network infrastructure are tightly intertwined; every proposed change must be carefully considered for direct, second and third order effects. Updates documentation and maintains listings of all authorized equipment for assigned programs. Provides guidance on capabilities, limitations, and peculiarities of the solutions under consideration. May serve on committees or



planning groups concerned with future systems, requirements, and/or specifications.

DUTY 5: 10% Critical

Participates in or leads discussions, meetings, committees or special projects and presents briefings and prepares recommendations and reports. Presents clear, concise, and well-structured oral presentations that address the designated issues. Identifies problems and attempts to resolve conflicts in a timely manner through persuasive discussions with responsible members in a meeting or working group. Coordinates with DoD Component staff offices and working groups, manufacturers, vendors, customers, and engineering/installation personnel. Provides reports and recommendations so that problems and solutions for major segments of a system are resolved without jeopardizing the mission. Prepares reports with recommendations. Provides briefings and develops recommendations concerning long-range information system objectives. Provides technical input in the development of acquisition documents and Concepts of Operation/Employment, so there is adequate explanation and instruction to ensure NC3 missions and capabilities are met.

KNOWLEDGES, SKILLS, AND ABILITIES (KSA):

1. Expert knowledge and skill in the analysis of the Fixed and Survivable element of the National Military Command System (NMCS), NC3 systems and architecture, and NC3 platforms and to lead projects including NC3 assets for interoperability, integration, advocacy, sustainment, and resourcing to serve as the NEC focal point for interface with Service Program Management Offices on NC3 related programs.
2. Expert knowledge of telecommunications theories, concepts, principles, and practices, procedures, policies, standards, operational requirements to apply procedures, requirements, regulations, and policies related to specialized expertise in the work of the division including the ability to maintain credibility with others on technical matters; such as program management methods, practices, procedures, to formulate, justify, and execute assigned functions in support of the mission, structure, goals, work processes, and programs of the command.
3. Knowledge of quantitative techniques to develop, adapt, modify, and apply new scientific models to solve problems or define and clarify alternative solutions for management.
4. Advanced skill to apply new methods of administration, advanced principles, and standard management practices to efficiently and effectively direct division operations, and maintain coordination, security, and control.
5. Advanced skill to analyze, research, present, and negotiate very complex and sensitive issues with officials of diverse perspectives and often with different or opposing views.
6. Skill to organize and lead study teams tasked to originate new ideas, projects, and methodologies.
7. Advanced skill to communicate effectively, both orally and in writing; negotiate complex issues; and maintain good working relations with diverse groups and executive level management throughout the agency.
8. Ability to analyze a variety of unusual telecommunications conditions, problems, questions, or conditions associated with formulating projects or studies to substantially alter major telecommunications systems (e.g., systems compatibility, circuits, switches, distribution, satellite linkages, and networking).
9. Ability to execute projects and/or studies within established financial and/or time constraints.