Principal Systems Engineer

Involved in all aspects of Systems Design and Architecture for the Tactical Communication Systems business area. This team, based at Aberdeen Proving Ground, is responsible for supporting system architecture development, CONOPS development, system trade studies, requirements analysis and flow down to hardware/software configuration items; leading to systems design for combat Identification Friend or Foe (IFF) solutions for air defense, air control, and self-protection missions in airborne and ground applications.

The experienced Principal Systems will be experienced at leading hardware, software, and system development efforts necessary to propose, implement, verify, and deliver systems, and will work closely with program, engineering, IPT leads and program management during all phases of program development and must be effective at communicating and building trust with senior management and customers. The successful candidate must be a proven and effective leader driving technical integrity in the engineering team's products and behaviors, while ensuring program execution to plan. Minimal supervision is received from a designated supervisor. Guidance received relates primarily to general objectives and details of unusual situations and /or requirements. May provide functional guidance to less experienced engineers or exercise occasional functional supervision over technicians and clerical assistants.

Required Skills

- Minimum 8 years of experience in requirements analysis and development, system performance analysis, integration and verification, AND/OR subsystem or system architecture development
- Experience in execution of a disciplined engineering processes, scope management, people development and risk and opportunity management.
- Experience in proposal development, particularly Engineering Change Proposal and Basis of Estimate development, and other contract deliverable artifacts.
- U.S. Citizenship status is required AND this position requires the ability to obtain (and maintain) **DoD Secret U.S. Security Clearance** within one year of start date and will require the ability to access US only data systems

Desired Skills

- Ability to work within a structured Systems Engineering process environment including a task oriented, value-based management system
- Ability to interact effectively with multidisciplinary teams of system design professionals including electrical, mechanical, software and logistics engineers
- Expertise, background and competency in requirements development, analysis, derivations, verification and validation
- Experience in some or all of the following are highly desirable: EMI/EMC, shock, vibration, altitude, temperature, dust, humidity, and reliability growth
- Working knowledge and understanding of environmental test requirements pertaining to Military Standards including one or more of the following; MIL- STD- 810, MIL- STD- 67, MIL- STD - 1399, MIL- STD- 1540, MIL- STD-461
- Experience with AIMS 03-1000 specifications and AIMS 1101, 1102, 1103 and 1201, 1202, 1203 test plans
- Proposal support experience including writing Basis of Estimates

- Experience in the development of flight test program plans, support to Government flight testing and FAA certification
- Working experience with the development of Military equipment
- Past experience with production and sustainment programs
- Past experience with EVMS, IMS, & IMP tools for managing programs
- Strong team building, leadership and motivational skills
- Must have excellent communication skills (written, verbal, and presentation} and be able to effectively communicate with IPT leaders, hardware and software development engineers, specialty engineers, program managers, and customer representatives
- Technical leadership experience
- Active Secret Clearance

Required Education

Bachelor of Science degree in Science, Technology, Engineering or Mathematics (STEM) from an accredited educational institution (i.e. Engineering, Physics, Mathematics, etc.)

Desired Education

Master of Science degree in Science, Technology, Engineering or Mathematics (STEM) from an accredited educational institution (i.e. Engineering, Physics, Mathematics)