

Systems Engineer

The SE will apply systems engineering processes & practices, ISR, and aviation knowledge to a broad range of projects involving the integration of ISR sensors and communication equipment, commonly on airborne platforms. The SE takes total technical ownership of assigned projects and is concerned with all system lifecycle stages from concept through operation. The primary SE objective is to optimize stakeholder satisfaction through a variety of mechanisms including requirements management, architecting, configuration, testing, and documentation.

Responsibilities:

- Elicit stakeholder (primarily customer) needs, reference existing documentation, and apply domain knowledge to transform needs into clear and precise technical requirements to be used by design team and subcontractors.
- Involve internal and external subject matter experts (SME) and designers to ensure all viewpoints are addressed.
- Manage technical requirements in the form of block diagrams and “shall” statements stored in database/spreadsheet form. Derive and decompose requirements as needed for project success.
- Minimize undesirable consequences by surfacing assumptions, identifying system boundaries, and identifying interface and performance concerns early. Resolve through technical interchange meetings with suppliers/customers/designers, bench test, analysis, trade studies, and site surveys.
- Develop and apply expertise in system elements to ensure optimal configuration and integration. Research new vendor-supplied system elements to maintain competitive advantage.
- Develop system architectures based on requirement baselines and SME input.
- Lead requirement reviews and interdisciplinary design reviews, often with customer involvement.
- Verify requirements have been met through drawing/specification inspection, laboratory test, and aircraft test.
- Provide system engineering artifacts including but not limited to specifications, interface/source control documents, systems analyses, trade studies, test reports, architecture views, test procedures, configuration captures, and system integration lab (SIL) plans.
- Provide hands-on and analytical troubleshooting support during system configuration and verification/validation phase.
- Track requirement non-compliances and work with design team and program management to resolve.
- Contribute to and develop winning technical proposals while accurately communicating technical effort level to Engineering Director and Business Development (BD) personnel.

- Provide internal and external technical support and troubleshooting as needed.
- Will have direct customer contact and be expected to fly on military & law enforcement aircraft, often in OCONUS locations.
- Will be expected to work outside of normal business hours when necessary to meet project commitments.

Qualified candidates will possess:

- BS degree in Engineering or Computer Science
- Demonstrated understanding of requirements based design, integration, and V&V
- Excellent verbal and written communication skills
- 5+ years multidisciplinary engineering experience
- Track record of successfully designing and troubleshooting computer-based systems
- Advanced knowledge of Microsoft Windows and IP networking
- CONUS and OCONUS travel will be required for short periods of time
- Must be able to lift up to 50 lbs
- Must hold or be able to obtain a US passport

Candidates who possess the following are preferred:

- Intermediate to advanced knowledge in at least two of the following domains:
 - RF Datalinks, SATCOM, RADAR, SIGINT, ISR System Integration
- Professional training and experience in Systems Engineering
- 3+ years aircraft modification experience
- Familiarity with SolidWorks
- Computer programming experience (Python, Java, or C++)