



# Principal Systems Engineer

TransTechSol – Annapolis Junction, MD

TRANSTECHSOL

TransTechSol was founded upon a culture that values transparency, alignment, expertise, decisiveness, and accountability. We pride ourselves on gaining, maintaining, and growing our talent to deliver forward-thinking solutions that lead to the next generation of technology, policy, and ultimately signals intelligence capabilities. We are considered a leader in compliance in the cryptologic community by both our clients and competitors.

## Principal Systems Engineer

TransTechSol seeks a Principal Systems Engineer with the following preferred skills:

- Provide technical direction for the development, engineering, interfacing, integration, and testing of all components of complex hardware/software systems. Includes requirements elicitation, analysis and functional allocation, conducting systems requirements reviews, developing concepts of operation and interface standards, developing system architectures, and performing technical/non-technical assessment and management as well as end-to-end flow analysis
- Develop comprehensive SOA solutions
- Create operational view, technical standards view, and system and services view for architectures using applicable DoDAF standards
- Develop scenarios (threads) and an Operational Concept that describes the interactions between the systems, the user, and the environment that satisfies operational, support, maintenance, and disposal needs
- Review and/or approve systems engineering documentation to ensure that processes and specifications meet system needs and are accurate and comprehensive
- Conduct quantitative analysis in non-functional system performance areas like reliability, maintainability, vulnerability, survivability, producibility, etc.
- Establish and follow a formal procedure for coordinating system integration activities among multiple teams, ensuring complete coverage of all interfaces
- Capture all interface designs in a common interface control format, and store interface data in a commonly accessible repository
- Prepare time-line analysis diagrams illustrating the flow of time-dependent functions
- Establish a process to formally and proactively control and manage changes to requirements, consider impact prior to commitment to change, gain stakeholder buy-in, eliminates ambiguity, ensure traceability to source requirements, and track and settle open actions
- Assess each risk to the program and determine the probability of occurrence and quantified consequence of failure in accordance with an approved risk management plan

- Manage and ensure the technical integrity of the system baseline over time, continually updating it as various changes are imposed on the system during the lifecycle from development through deployment, operations and maintenance
- In conjunction with system stakeholders, plan the verification efforts of new and unproven designs early in the development life cycle to ensure compliance with established requirements
- Support the planning and test analysis of the DoD Certification and Accreditation Process (as well as other Government Certification and Accreditation processes)
- Support the development and review of Joint Capability Integration Development System (JCIDS) documents (i.e., Initial capability document, capabilities description document, IA strategy)

### **Required Qualifications**

- Minimum 20 years of systems engineering experience in programs and contracts of similar scope, type, and complexity within the Federal government
- Bachelor degree from an accredited college or university in computer science, engineering, information systems, or related field is required. Five (5) years additional systems engineering experience may be substituted for the degree requirement.

### **Desired Qualifications**

- Technical certification as a Certified System Engineering Professional from INCOSE, DAWIA SPRDE Level 2, or other equivalent certification
- Familiarity with agile development process
- Demonstrated experience in planning and leading systems engineering efforts

### **Location**

- Annapolis Junction, MD

### **Security Clearance**

- TS/SCI with polygraph

To learn further about our team and benefits, visit [TransTechSol.com](http://TransTechSol.com). Resumes should be submitted directly to April LeViere, Operations Manager, at [ahl@TransTechSol.com](mailto:ahl@TransTechSol.com).