

Reports to: Chief Engineer C3 Systems/ME/EE Engineering

**SUMMARY:**

Define and execute systems engineering activities within a project. Activities may consist of systems planning, performance management, capacity planning, testing and validation, benchmarking, information engineering, and development of a systems engineering plan. Work at various levels in the design and coordination of large and complex projects/systems.

**ESSENTIAL DUTIES, RESPONSIBILITIES, AND AUTHORITY:**

1. Prepares requirements specifications and guiding allocation.
2. Performs top-level system designs and trade-off studies.
3. Provides technical and cost inputs for proposals and marketing initiatives.
4. Confers with the customers, engineers, and project managers to obtain information on limitations and capabilities of existing systems and capabilities.
5. Leads and coordinates multidisciplinary product teams to provide system level technical oversight working on all phases of the system development cycle, from concept development through system sell-off to the customer.
6. Provides system level technical oversight and works on all phases of the system development cycle, from concept development through system sell-off to the customer.
7. Responsible for analyzing customer requirements with the intent of providing product or services that will provide high level overview of proposed solutions, plans layout and installation of new systems or modification of existing systems. Understand customer needs and help determine what processes and technologies (hardware and software) are available to effectively fill them.
8. Writes specifications that translate customer needs into engineering requirements. Responsible for proper flow down of technical requirements to other functional engineering groups ensuring that subsystem, assembly, or component level designs support the overall system level requirements.
9. Incumbent must confer with the customer, engineers, and project managers to obtain information on limitations and capabilities of existing systems and capabilities required for data processing and project work load.
10. This position requires the evaluation of factors such as technical feasibility, time requirements and cost constraints, and need for security and access restrictions to determine hardware configurations.
11. Analyzes customer requirements and desires to determine, recommend, and plan layout for type of computers and peripheral equipment, or modifications to existing equipment and systems, which will provide capability for proposed project or work load, efficient operation, and effective use of allotted space.
12. Interfaces with Test Engineers to provide system test plans and procedures in order to ensure that the delivered system fully meets both the functional and performance requirements.
13. Reviews and approves all system level documents, drawings, and test data.
14. Interfaces with other functional Engineering groups, Manufacturing and Testing as necessary to resolve technical issues and non-conformances. Leads troubleshooting teams as necessary.
15. Provides technical oversight to installation teams to install electronic equipment, cables and/or computers on aircraft and conducting test following installation.
16. Recommends purchase of equipment, trains users on new or modified equipment.
17. Oversees testing and operation of equipment after delivery and installation to ensure system operates in conformance with all specifications.

With appropriate training incumbent must be able to perform all duties as assigned.

**KNOWLEDGE AND SKILL REQUIREMENTS:**

Experience and Competencies

Mid level – A minimum of 3 year's applicable experience; requires some supervision.

Bachelor's degree in Computer Engineering, Computer Science, or Electrical Engineering programs preferred, or equivalent related industry experience.

Software Application Requirements

ART has standardized on Microsoft Office. Employee must be able to operate and perform proficiently on Excel, Word, Visio and Power Point software.

Working Conditions

Working conditions are normal for an office environment. Work may require frequent weekend and evening work. Work may require overnight travel.

US citizenship is required; security clearance is desired.