

# Systems Engineer



## ? What Systems Engineers Do

Responsible for the input to and verification of engineering designs to specification requirements for new or improved products and equipment. This verification can be accomplished by analysis, similarity through comparison, or test of the design.

### Essential Duties

- Interfaces with customers, defines system interface, and conveys user requirements to Design Engineers
- Reviews product design to ensure all specifications and system interface requirements are met
- Prepares product verification plans to demonstrate compliance with specification requirements
- Prepares test plans and procedures for systems, subsystems, and components that must demonstrate compliance through testing
- Provides engineering input for test efforts on assigned programs. Reviews test results and provides input to engineering personnel as needed
- Disseminates engineering inputs to other departments for use in the preparation of technical orders, manuals, logistics support, reliability reports, maintainability data, and system safety inputs
- Prepares material for presentations and participates in design reviews with both in-house personnel and customers in attendance

- Provides technical support to customer servicing requirements, including the preparation and presentation of technical proposals
- Provides input to engineering costs and schedule development, and assures compliance with customer requirements
- Supports off-site testing of ILC products/ systems at vendor or government facilities
- Keeps computer skills current, as applicable, in performance of all duties



### Education & Qualifications

- Must be able to access shared database with government programs (U.S. Citizen or Permanent Resident of the U.S.)
- Bachelor of Science Degree in Engineering, or related field of study, plus, a minimum of five (5) years related experience; or equivalent combination of education and experience
- Demonstrated technical proficiency and innovation
- Demonstrated, strong communication skills; both verbal and written
- Demonstrated ability to adapt to changing customer needs/ requirements
- Must have knowledge of Word Processing software; Spreadsheet software; Basic CAD skills; Data Acquisition and Data Analysis tools/software; and Internet software



**Get a Head Start....with these classes in middle and high school:**

Algebra

Calculus

Physics

Chemistry

Computer Science

Physical Science