

Support Systems Engineer: Principal Support Systems Engineer

Reviews field support requirements and recommends tool and test equipment. Establishes sustainment support requirements for systems and equipment. Develops logistics support systems. Performs maintenance and maintainability demonstrations for customers. Reviews handbooks, manuals, training, etc. for technical accuracy and adequacy. Plans and contributes to proposal efforts. Designs, develops, and implements testing methods and equipment. Plans and arranges the labor, schedules, and equipment required for testing and evaluating standard and special devices. Applies human performance principles, methodologies, and technologies to the design of human-machine interfaces for systems and products. Develops and implements research methodologies and statistical analysis plans to test and evaluate developmental prototypes used in new products and processes. Interfaces with design engineers to establish system design, operating, and training requirements and to ensure optimized human-machine interfaces, safety, maintainability, testability and other design attributes that influence the sustainability of the system/product. Develops safety documents as required to support customer and test/operational range requirements. Performs audits of operational areas and reports effectiveness of system safety programs. Evaluates the interrelationship of system safety requirements and other aspects of concept design and development requirements to ensure a safe but cost-effective solution. Resolves technical problems and answers queries supporting customers and integrators. Maintains and updates records and tracking databases and alerts management to recurring problems and patterns of problems.

Discretion/Latitude

Works under consultative direction toward predetermined long-range goals and objectives. Determines and pursues courses of action necessary to obtain desired results. Completed work is reviewed from a relatively long-term perspective for desired results.

Knowledge, Skills, & Abilities

Applies advanced technical principles, theories, and concepts. Contributes to the development of new principles and concepts. Identifies, analyzes and develops new business opportunities. Answers unusually complex technical questions regarding products and services, and takes part in putting together proposals, configurations, and product offerings.

Problem Solving

Works on unusually complex technical problems and provide solutions that are highly innovative and ingenious.

Impact

Develops technological ideas and guides their development into a final product. Erroneous decisions or recommendations would typically result in failure to achieve critical project objectives. Leads the planning and implementation of large projects/ programs. Contributes to department goals and planning efforts.

Liason

Serves as organization spokesperson on projects and/or programs. Acts as advisor to management and customers on advanced technical research studies and applications.

Minimum Education and Experience

12+ years with BS in designated Engineering or related field. Employees usually have advanced degree in field of specialization.