

Support Systems Engineer: Sr. 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. Assignments are often self-initiated. Determines and pursues courses of action necessary to obtain desired results. Work checked through consultation and agreement with others rather than by formal review of superior.

Knowledge, Skills, & Abilities

Applies advanced technical principles, theories, and concepts. Contributes to the development of new principles and concepts. Widely recognized for achievements, technical expertise and meritorious standing within professional field. Identifies, analyzes and develops new business opportunities. Establishes customer contacts, conducts research and analysis into their future plans and needs, assists with the development of their specifications, develops proposals, and delivers marketing presentations.

Problem Solving

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

Impact

Develops advanced technological ideas and guides their development into a final product. Erroneous decisions or recommendations would typically result in failure to achieve critical organizational objectives and affect the image of the organization's technological capability. Functions in a program leadership role. Plays a key role in implementing programs/projects and makes significant contributions to department goals and overall functional strategic planning efforts.

Liason

Serves as organization spokesperson on advanced projects and/or programs. Acts as advisor to management and customers on advanced technical research studies and applications. Often instrumental in attracting and obtaining major new company business.

Minimum Education and Experience

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