

JOB DESCRIPTION

Senior System Hardware and Mechanical Design Engineer (Electrical)

Position Summary:	Generates and refines system level and detailed technical requirements for avionics integration efforts. Designs group A components for air worthiness, operational suitability, safety, effectiveness, and produce ability. Interconnect, wiring harnesses and other electrical interfaces with avionics equipment. Completes all tasks autonomously.
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Essential Functions:	
<ul style="list-style-type: none"> • Participate in efforts to generate refined requirements to ensure that needed capabilities are brought to the warfighter. 	
<ul style="list-style-type: none"> • Conduct detailed design activities including but not limited to: <ul style="list-style-type: none"> ○ Design F-16 on-aircraft electrical and software interfaces, wiring (harnesses and loose wire assemblies), electrical components (matrix assemblies, panel, etc.) for applicable Avionics Modifications. ○ Design installation procedures; document designs; perform TVI and Kitproof using applicable documentation; specify environmental qualification requirements; ○ Review test data for compliance; and prepare final products for distribution to field locations. ○ Maintain revisions to engineering documents and parts lists in order to track updates to designs ○ Develop Environmental Qualification Requirements ○ Develop wire Harness Drawings and loose Wire Assembly Drawings Installation Procedure; including Routing Diagrams Interface Control Drawings 	
<ul style="list-style-type: none"> • Work with production teams to ensure integration design meets requirements 	
<ul style="list-style-type: none"> • Participate in requirements generation/refinement for current and new hardware/software candidates based on systems engineering processes and to find ways to create efficiencies in system design processes and practices 	

Other Functions:	
<ul style="list-style-type: none"> • Other duties assigned by supervisor 	

Working Conditions:	Office conditions. Travel and/or field work as required by contract
Work Hours:	As assigned by supervisor/manager.
Equipment/Technology Used (Other than Standard Office Equipment):	Equipment as needed to support F-16 engineering efforts.
Physical Demands:	Able to sit for long periods of time. Able to travel and/or work outside of office conditions as required.

Mental Demands:	Able to perform all tasks as required by contractor or supervisor. Able to multi-task.
Communication Demands:	Able to communicate (i.e., verbal and written) with all levels of personnel both internally and externally.

Minimum Qualification Requirements (In Addition to Physical, Mental, and Communication Demands Listed Above):	
Education:	Bachelor's degree in a relevant field. Prefer an advanced degree.
Experience:	<ul style="list-style-type: none"> At least ten years of relevant professional (avionics) experience in systems, electrical engineering
Skills/Knowledge:	<ul style="list-style-type: none"> Excellent communication, problem-solving, and teamwork skills.
Security Clearance Requirements	<ul style="list-style-type: none"> SECRET level clearance within 5 years.