

Job Description

Business Title: Senior Project Engineer

Reports To: Director of Engineering or Engineering Manager

Effective Date:

Salary Grade:

Job Family:

Manager Level:

EEO Code:

FLSA Status/Category:

Job Code:

SUMMARY

The Senior Project Engineer will be a fundamental part of the design engineering organization at USCS. The Senior Project Engineer will provide the driving force needed to complete the development of mechanical and electrical equipment as part of complex integrated systems. Key duties include the understanding of contractual, technical and process requirements. Decomposing, organizing and assigning tasks to achieve project objectives. Interaction with multiple functional groups internally as well as with vendors and customers. Organizing verification and qualification test activities to meet customer certification requirements and aircraft program schedules. Integrating complex electronic and software-controlled equipment. Provide leadership to less experienced engineers and integrated product teams.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- The Senior Project Engineer reports to the Engineering Manager or the Director of Engineering depending on the projects.
- Execution: Organize, assign and track tasks needed to complete development projects. Create lists of deliverables based on requirement specifications. Organize tasks based on priority and length to meet the overall project schedule.
- Lead Integrated Product Teams. May be responsible for managing the engineers directly assigned to the project, and insuring adherence to all company and department policies and procedures.
- Identify and recruit project resource needs.
- Prepare data needed to conduct design reviews, and present to customer team.
- Review and manage requirement specifications, including compliance and verification matrices.
- Participate in system and equipment development planning.
- Provide concise summaries to document overall compliance to cost, technical and schedule requirements, and participate in internal company program reviews.
- Provide technical leadership in multiple functional areas.
- Write and review reports to document compliance to project requirements.
- Provide cross functional technical leadership to resolve equipment and system level issues.
- Responsible for the financial evaluation, estimating, quoting, execution and reporting on status of the development projects. Keep track of costs to meet project cost targets. Provide key cost indicators on a regular basis.
- Provide support for business development activities.
- Ensure that the mechanical design work is performed in accordance with Design to Cost (DTC), Design for Manufacture (DFM), Design for Assembly (DFA) process requirements.

- Get behind and advance the use of the SolidWorks suite of design tools (SW Premium with Simulation, SW Composer, SW Inspection, EPDM, SolidWorks CAM).
- Maybe required to travel to customer site.

CORE COMPETENCIES

- Commitment to company values and ethics
- Dependability: personally responsible, completes work in a timely manner, and performs tasks accurately
- Motivation: must maintain a positive attitude and strong work energy
- Advanced computer proficiency
- Analytical skills: must be able to gather information and use data to determine cause and effect for complex problem solving
- Continuous learning: ability to learn new procedures and adapt to change
- Creativity: makes constructive suggestions and creates novel solutions to problems; evaluates new technology as potential solutions to existing problems
- Communication: excellent interpersonal and oral and written communication skills
- Independent: must have the ability to carry out and follow through on tasks with minimal supervision
- Initiative: plans work and carries out tasks without detailed instructions, prepares for problems or opportunities in advance, undertakes additional responsibilities
- Problem Solving: ability to develop and implement new ideas to improve processes
- Project management skills
- Strong judgment and decision making
- Teamwork: works harmoniously with others to get a job done, responds positively to instructions/procedures, and works well with others
- Time management: ability to organize and manage multiple priorities and effectively deal with tight deadlines and pressure

QUALIFICATIONS

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

EDUCATION

- Minimum: Bachelor of Science degree (B.S.) in Mechanical or Aeronautical/Aerospace Engineering from a four-year college or university;
- Preferred: Master of Science degree (M.S.) in Mechanical or Aeronautical/Aerospace Engineering or related field of study;

EXPERIENCE

- Experience in the design of dynamic mechanical and electro-mechanical components and mechanisms.
- Experience in the creation, publication and revision of engineering drawings in accordance with ANSY Y14.100 standards.
- Experience in the troubleshooting of mechanisms in the context of the development cycle

- Experience in the certification of mechanical and electro-mechanical components for civil or military aerospace applications
- Experience in creating tolerance analysis for large assemblies and ensure compliance with aircraft interface requirements
- Experience in stress analysis (including materials science), FEA and motion simulation
- Advanced Experience with SolidWorks toolset or equivalent
- Leadership experience with managing large groups of engineers, in the gated development process
- Advanced experience with manufacturing processes and tools used in the industry

PHYSICAL DEMANDS/WORK ENVIRONMENT

The physical demands and work environment characteristics described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- Maneuvers in, around, under, and about factory and/or laboratory equipment on a regular and continuous basis
- Must be able to lift a minimum of 25 pounds
- Specific vision abilities required by this job include close vision, depth perception, and ability to adjust focus
- Travel required up to 25%, including international travel.

While performing the duties of this job, the employee may be regularly required to sit, stand, bend, reach and move about the facility.

The environment characteristic for this position is an office setting. Candidates should be able to adapt to a traditional business environment.

SIGNATURE

I understand that I am expected to adhere to all company policies and to act as a role model in the adherence to policies. I have read and agree that the contents of this job description accurately reflect my understanding of what is expected of me in this position.

Employee’s Name: _____

Employee’s Signature: _____ Date: _____