

Falcon ExoDynamics

<https://www.falconexodynamics.com/job/mechanical-engineer/>

Mechanical Engineer

Description

The mechanical engineer performs engineering activities to meet project objectives and requirements across a wide variety of mechanical engineering challenges (small components, avionics units, optical systems, electro-mechanical systems, thermal, etc.) including problem definition, design, analysis, requirement development, and implementation for complex systems. Develops physical prototypes of engineering solutions to support preliminary and/or qualification testing. Participates in efforts that develop recommendations and advice on system development, improvements, optimization, or support efforts.

Responsibilities

- Participates in all phases of scientific and engineering projects such as research, design, development, testing, modeling, simulating, training, and documentation
- Uses industry-standard tools applicable to the associated engineering discipline (e.g., SolidWorks, Thermal Desktop) to perform engineering tasks; develops new tools as needed to support project specific work when industry-standard tools are insufficient
- Develops presentation material and documentation supporting engineering activities and communicates solutions to project stakeholders
- Leads or assists in formulating architectural design, functional specifications, interfaces and documentation
- Uses detailed specifications and adapt standardized techniques, methods, criteria and precedents to develop or modify portions of a system or program
- Designs, implements, and conducts test and evaluation procedures to ensure system requirements are met
- Supports or leads all phases of risk and opportunity management activities
- Addresses problems of systems integration, compatibility, and multiple platforms
- Leads or supports development and refinement of concepts of operations and operational plans, through modeling, simulation, or operational software prototyping that make optimum use of existing and planned systems to meet mission needs
- As required, participates in the development of system concepts, system requirements, concepts of operations, and training requirements in every phase of the system development process
- Develops component, unit, subsystem, and integrated mission-level test, verification, and validation requirements and strategies
- Works directly with customer technical personnel and supporting subject matter experts to ensure requirements, operational concepts, and systems objectives are captured and met as intended
- Performs component, unit, subsystem, and integrated mission-level trades and analysis activities including modeling and simulation to predict expected system performance and determine solutions which will meet project objectives balancing cost, schedule, and performance
- Performs high-level through detailed functional and performance systems analysis, design, integration, and implementation that account for test and operational environments
- Able to quickly learn the basics of new tools, technologies, and development

Employment Type

Full-time

Job Benefits

- Medical, Dental, and Vision Coverage
- Flexible Work Environment
- Holidays, Sick Leave, and Vacation Time
- Bonuses
- 401k Retirement Plan with Matching and Profit Share
- Low Overhead to Get What You Need to Get the Job Done

Citizenship / Clearance Requirements

- U.S. Citizenship Required
- Must be able to obtain a clearance
- Current/Active TS/SCI Preferred

Job Location

Los Angeles, CA, United States

aspects of adjacent domains to support integrated engineering activities

Qualifications

- Bachelor's degree in mechanical engineering with 4+ years experience
- Can work independently and as part of a team of his/her peers
- Worked on at least one spacecraft program performing subsystem or system design and/or testing
- Has experience setting and performing to technical milestone entrance/exit criteria
- Comfortable presenting to diverse audiences including technical and non-technical experts and peers
- Familiar with Design for Manufacturing and Test (DFMAT) principals and approaches
- Familiar with design prototyping and associated testing

Preferred Experience

The ideal candidate should have the following experience:

- Worked on multiple spacecraft programs performing system design and testing at various levels
- Demonstrated experience in designing, developing, and testing a system / experiment
- Hands-on experience with DFMAT
- Developed multiple prototypes having seen a design through the full lifecycle of prototype development through manufacturing

Falcon ExoDynamics believes in the diversity of teams and experiences. We are proud to be an Equal Opportunity/Affirmative Action Employer. We encourage veterans, disabled veterans and disabled individuals to apply for any open position for which they feel they are qualified.