

## Senior Mechanical Engineer

Position is in Columbia, MD or Alexandria, VA

Parry Labs is seeking an experienced candidate to join a team of engineers developing many novel solutions. The chosen candidate will work on a wide range of government and commercial projects including, but not limited to, radio frequency communication and sensing payloads, airborne electro-mechanical actuators, and Unmanned Aerial Systems (UASs). The candidate should have a strong background in engineering fundamentals and hardware design, preferably in the Aerospace and Defense industries. As a Senior Mechanical Engineer at Parry Labs your skills will be used to design, analyze, and coordinate the fabrication and integration of equipment used to support commercial, military, and space products.

### Primary Duties & Responsibilities

- Technical responsibility for the delivery of various systems, including but not limited to, RF aperture housings, electronic enclosures/packaging, thermal management systems, and electro-mechanical pointing systems
- Handle all project details including requirements derivation, conceptualization, detail design, analysis, project oversight, manufacturing support, test, system integration, and qualification
- Create structural and/or thermal finite element models using appropriate tools
- Verifies that material selections and part designs are appropriate for expected loads and environments
- Originate specifications, control documents, verification and validation plans, procedures, reports, or other documentation in support of design and development activities
- Prepare material for, and conduct, periodic design reviews
- Support testing activities with tool and fixture design, test plan development, and conducting of testing
- Generate statements of work, request for proposals, and purchase orders for subcontractors and/or vendors
- Interface with the subcontractor's and/or vendor's technical staff, manage re-occurring technical meetings and/or reviews, and support testing at subcontractor site(s) as required

### Experience and Qualifications

- Prior experience with the development and deployment of hardware in Aerospace and Defense applications
- Prior experience with RF/Microwave systems
- Working knowledge of Geometric Dimensioning and Tolerancing, ASME Y14.5M-2009
- Working knowledge of material and finish selection, metal fabrication processes, and assembly techniques and procedures

- Proficiency in SolidWorks (2016 or later) for part and assembly design, and detailed drawing creation.
- Proficiency in SolidWorks Simulation with Flow Simulation, and/or ANSYS suite of products for structural, dynamic, and thermal analysis.

## Key Attributes

- Must be able to manage own schedule and technical work, taking ownership of their responsibilities
- Must be positive team players who are committed to excellence
- Must be able to communicate effectively – in written and verbal format
- Must be willing to learn new skills, software packages, and general engineering knowledge
- Must be able to understand new concepts quickly and apply them accurately throughout an evolving environment

## Education

- BS in Mechanical or Aerospace Engineering (or a similar academic discipline), MS preferred.
- Bachelor's with 12+ years applicable experience
- Master's or PhD with 8+ years applicable experience

## Clearance

Must be able to obtain/maintain a US government security clearance, TS as a minimum and TS/SCI preferred.

## Additional Information

This position offers a career path at a competitive salary with excellent benefits including medical, dental, 401k, performance incentives, flexible work environment, and more.

Parry Labs is an equal opportunity employer. We encourage minorities, females, protected veterans, disabled individuals, sexual orientation, and gender identity to apply.