**Junior Manufacturing Engineer**

**Job #522**

**Pay range: $34.00 - $44.00/hr/$70,720 - $91,520 annual**

**Description:**

The Junior Manufacturing Engineer will work closely with the Manufacturing Engineering Supervisor to support the production of optical systems. This position works with cross-functional teams relating to manufacturing, engineering development, testing, and procurement.

**Responsibilities include but not limited to:**

* Supports the development and implementation of standard operating procedures and assembly sequences.
* Interfaces with the engineering design team in coordinating the release of future prototype designs incorporating Design for Manufacturing & Design for Assembly principles.
* Configure production BOM’s and routings in accordance with product structures.
* Support the implementation of Lean Manufacturing principles into the manufacturing departments of machining, assembly, and integration to ensure repeatability of products.
* Generate thorough inspection procedures for assemblies and machined components in collaboration with quality / inspection technicians.
* Coordinate with assembly technicians and manufacturing technical writers to develop detailed and sustainable work instruction documentation through the use of SolidWorks Composer.
* Identify process gaps in the production of complicated systems.
* Collaborate with outside vendors and processes while effectively being able to communicate engineering design intent.
* Coordinate time studies, assembly line set up, line balancing / capacity, and other similar process improvement efforts.

**Requirements:**

**Education:**

B.S. in Industrial Engineering (or related degree)

**Experience:**

* Relevant 0-3 years’ experience
* Master's degree in engineering is a plus.
* Preferred experience in aerospace, defense, automotive industry.
* Direct production and design for manufacturing experience or related project experience from the Universities

**Skills:**

* Possess strong written and verbal business communication, excellent problem solving and organizational skills.
* Applicant should be able to obtain Security Clearance.
* Support implementation of engineering product design activities through all phases of projects.
* Candidate must possess the ability to prioritize and execute multiple tasks in a demanding environment.
* Support teams through systems analysis/engineering, project planning/execution and reviews.
* Support DFM / DFA for both large and small high precision systems as part of an overall opto-electro-mechanical system.
* Experience with imaging camera and lens optical system mechanical and system integration desired
* Utilize SolidWorks & SolidWorks Composer for design, drafting, and standardized work instructions.
* Develop and review component drawings utilizing GD&T, per ASME Y14.5, and assembly drawings and associated engineering drawings.
* Demonstrated understanding of tolerance stacks, dimensioning, and GD&T.

**Physical Requirements include:**

* Position requires ability to frequently stand; walk; use hands and reach with hands and arms.
* The employee may also be required to lift product or equipment weighing up to 50 lbs