

## Engineering Design Drafting Level 1

### **Job Summary:**

Develop and maintain Master Solid CAD Models and Process Operation CAD Models using Solidworks and other CAD tools such as NX to support manufacturing processes for aerospace components. Maintain model file structure to insure proper integration of models between process, drafting, tooling and manufacturing groups. Maintain model structure to insure model updates are effective throughout all engineering groups.

### **CAD Draftsman/Designer**

#### **Summary:**

Provide expertise in the designing and drafting of mechanical equipment and systems.

#### **Duties and Responsibilities:**

- General Design and Drafting of Mechanical and Composite Designs
- Provide design and drafting support to the engineering staff
- Develop design detailing as needed
- Develop solid model from physical components as well as from scans and defined parameters
- Develop detail drawings, assembly instructions, and Bill of Materials - ERP system
- Use of Product Data Management Systems
- Modify and Revise design to correct operational and manufacturing deficiencies to reduce production problems
- Review and analyze process specifications, sketches, drawings, ideas and related data to assess factors affecting component designs with the procedures and instructions to be followed.
- Compute some mathematic formula to develop and design detailed specifications for components machinery or tooling machining.

#### **Basic Qualifications:**

- High School Diploma or Equivalent
- 4+ years of AutoCAD experience

#### **Preferred Qualifications:**

- AA/AS BA/BS degree w/0–2+ years' experience
- SolidWorks experience is required
- Experience with mechanical components and composite materials
- Experience with CNC and Machining for rapid prototyping a plus

#### **Other Skills/ Abilities/ Personal Attributes:**

**Skills:** Mechanical aptitude, Problem solving, Process development

**Abilities:** Work well with personnel at all levels, focus on current issue, Consensus building

#### **Personal Attributes:**

- Confidence, Enthusiastic
- Ability to multitask
- Familiarity with Measuring tools and GDVT