

<b>Job Title</b>	Manufacturing Engineer	<b>Date</b>	8/1/2023
<b>Department</b>	Operations	<b>Manages Employees</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Reports To</b>	Production Manager	<b>FLSA Status (to be completed by HR)</b>	<input checked="" type="checkbox"/> Exempt <input type="checkbox"/> Non-Exempt
<b>Revision</b>	A		
<b>Summary (Main Purpose)</b>			
Provides support to the Manufacturing organization to facilitate efficient operations within the production area, optimize existing processes, and ensure that production goals are met.			
<b>Job Duties and Responsibilities (Essential Functions)</b>			
<ul style="list-style-type: none"> <li>• Own key responsibilities for quality system – including calibration, MRB process, production work instructions, forms, and other process documentation.</li> <li>• Facilitate setup reduction events, mistake-proofing in a MTO environment.</li> <li>• Lead new equipment specifications, installations, and qualifications.</li> <li>• Prepare and present capital expenditure proposals.</li> <li>• Coordinate with vendors and other internal teams to identify and execute cross functional CI projects.</li> <li>• Self-starter for CI's (solicit ideas, specify solutions, and procure and execute).</li> <li>• Design and layout work as needed – AutoCAD, solid works.</li> <li>• Help coordinate and drive safety and quality improvements.</li> <li>• Tactical role in safety and quality system deployment/enhancements.</li> <li>• Leading special assignments for quality, capacity, and efficiency.</li> <li>• Work collaboratively partnership with Supervisor, operators, and engineers.</li> <li>• Perform drafting and design, BOM, work with suppliers on special projects.</li> <li>• Hands on role, work closely with variety of positions.</li> </ul>			
<b>Required Skills and Experience (Minimum requirements in terms of educational background, work experience, licenses/certifications or other knowledge, skills, and abilities).</b>			
<ul style="list-style-type: none"> <li>• Knowledgeable about metal cutting/forming process (brakes, laser, turret operations).</li> <li>• AutoCAD and/or SolidWorks knowledge/experience.</li> <li>• Lean and problem-solving experience.</li> </ul>			
<b>Additional Skills and Experience (Preferred or helpful)</b>			
<ul style="list-style-type: none"> <li>• Ability to effectively execute high-level engineering tasks, including planning, scheduling, and leading major cross-functional technical projects in a complex manner.</li> <li>• LEAN manufacturing experience.</li> <li>• Must possess good project management skills and initiative in taking on and completing projects.</li> <li>• Must possess good verbal and written communication skills.</li> </ul>			

*This description covers the primary purpose and principal duties of the job. It is not designed to be a complete list of all the duties and responsibilities required of this position. Duties, responsibilities, and activities may change at any time with or without notice.*

## Demands and Conditions Analysis: Manufacturing Engineer

### Working Conditions

The **essential functions** of this job involve the following working conditions.

(Place an "x" in the appropriate box.)

<b>C = Continuously</b>	75%-100% of time
<b>F = Frequently</b>	50%-74% of time
<b>O = Occasionally</b>	10%-49% of time
<b>R = Rarely</b>	1%-9% of time
<b>N = Never</b>	0% of time

	C	F	O	R	N		C	F	O	R	N
<b>Environmental</b>						<b>Physical Factors</b>					
Works alone			X			Sitting			X		
Works with others			X			Standing			X		
Customer contact		X				Walking		X			
Shift Work				X		Bending/stooping				X	
Extended Day			X			Squatting/Kneeling				X	
Keeping work pace/deadlines	X					Crouching/Crawling				X	
Performing repetitive tasks				X		Twisting at waist				X	
Noise (decibels) 91					X	Reaching above shoulders				X	
Vibration					X	Reaching below knees				X	
Abrupt temperature changes					X	Lift/carry up to 40 lbs.				X	
Heat (above 85 F)				X		Push/pull to 100 (force)				X	
Cold (below 65 F)					X	Climbing ladders			X		
Wetness					X	Climbing stairs					X
Dampness					X	Sweeping/mopping					X
Dryness					X	Operating foot controls					X
Odors & dusts				X		<b>Manual Tasks</b>					
Work with solvents				X		Grasping with one hand			X		
Work acids, bases					X	Grasping with both hands				x	
Work with oils					X	Manipulating with one hand				X	
Work with toxins					X	Manipulating with 2 hands				X	
Poor ventilation					X	Handwritten communication	X				
Fumes					X	Using keyboard	X				
Mechanical hazards			X			Using hand tools			X		
Electrical hazards			X			Twisting/wringing				X	
<b>Sensory Tasks</b>						Scrubbing/washing/ polishing					X
Seeing close (reading)	X					Scraping					X
Seeing far (observation)		X				<b>Equipment Operation</b>					
Peripheral vision			X			Driving car / light truck					X
Seeing colors			X			Driving heavy truck / van					X
Verbal communication	X					Operating forklifts, stackers					X
Hearing speech		X				Operating hoist equipment			X		
Hearing mechanical sounds			X			Operating shop machinery			X		
Sensing odors					X	Operating power tools				X	
Sensing by touch					X	Operating torch					X

