Job Title	Entry Level Mechanical Engineer	er <b>Date</b> 8/15/2024					
Department	Engineering	Manages Employees	es 🗌 Yes				
			🛛 No				
Reports To	Engineering Manager	FLSA Status (to be	🖾 Exempt				
		completed by HR)	□ Non-Exempt				
Revision	А						
Summary (Main Purpose)							
Under the direction of the Engineering Manager, the Entry Level Mechanical Engineer will design structures and bussing for switchgear, panel boards and electrical power distribution equipment for safe, effective, and efficient operation of States Mfg. products and processes while meeting and exceeding company quality and production standards and customer documentation and delivery requirements.							
Job Duties and Responsibilities (E	ssential Functions)						
<ul> <li>bussing for LV and MV switt complying with applicable of ensure workflow remains w</li> <li>Review and interpret cu- mentors to create designs.</li> <li>Experience using, or th and SolidWorks mechanica</li> <li>Improve the design pro- productivity of the design and</li> <li>Evaluate and select me panelboards and control pa</li> <li>Maintain a working known including forming, punching</li> <li>Participate in cross-fund- problems, and pursue contri- and methods.</li> <li>Attend training, review of growth of technical competer</li> <li>Support new product dest technologies and trends.</li> <li>Preserve and grow strons</li> <li>Provide onsite technical suppliers, including a small</li> <li>Follow all housekeeping</li> </ul>	cess using standardized practices nd support process while reducing chanical components and fabricat	ad implementing engine within a project manag- ments. greements and receive D modeling software s , tools and systems, in schedule and budget. ion parts for bussing s ts capabilities and perf shing. Ive manufacturing, des manufacturing and in- ork instructions related to g up to date with new i uppliers, manufacturer I regional day trips to o ps. th all quality and safet	eering standards, gement structure to e direction from uch as AutoCAD, PDM nprove the quality and ystems, switchgear, formance criteria, sign and quality stallation processes d to mentorship and ndustry products, rs and vendors. customers and				
Required Skills and Experience (M licenses/certifications or other knowl	linimum requirements in terms of educat edge, skills, and abilities).	tional background, work ex	(perience,				
<ul> <li>with customer's functional r</li> <li>Support product assem</li> <li>Provide project coordin</li> <li>Support the creation of</li> <li>Establish and maintain</li> </ul>	n multi-phase and DC switchgear, equirements for LV and MV equips bly, manufacturing and testing. ation and management for custom product and project quotes. internal, customer, and supplier re e ability to learn Microsoft Office p	ment. her orders. elationships.					

- Experience using, or the ability to learn PDM, SolidWorks, AutoCAD, 3D design tools.
- Experience using, or the ability to learn about mechanical test equipment related to LV and MV product fabrication, structures and manufacturing processes.

Additional Skills and Experience (Preferred or helpful)

- BS in relevant engineering discipline.
- Experience, schooling and coursework in sheet metal design, fabrication, machine design, GD&T, welding and coatings a plus.
- 0-2 years of engineering or technical experience.
- Ability to learn to specify and design structures and bussing related to electrical power equipment.
- Ability to learn to understand and develop competencies across electrical, mechanical and software design and commissioning functions.
- Must be self-motivated, have good interpersonal skills, capable of analyzing and solving complex problems through collaboration, innovative thought and experience.
- Experience with AutoCAD, SolidWorks PDM or other CAD design tools a plus.
- Experience related to renewables, emerging energy markets, data centers, battery systems, stored energy and charging stations a plus.

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: Mechanical Engineer

## Working Conditions

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

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

C = Continuously	v	75%-100% of time

F = Frequently	50%-74% of time

- **O = Occasionally** 10%-49% of time
- **R = Rarely** 1%-9% of time
- **N = Never** 0% of time

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	С	F	0	R	Ν		С	F	0	R	Ν
Environmental						Physical Factors					
Works alone			Х			Sitting		Х			
Works with others	Х					Standing		Х			
Customer contact			Х			Walking		х			
Shift Work					Х	Bending/stooping		Х			
Extended Day			Х			Squatting/Kneeling		Х			
Keeping work pace/deadlines	х					Crouching/Crawling			Х		
Performing repetitive tasks	Х					Twisting at waist		Х			
Noise (decibels) 91				Х		Reaching above shoulders			Х		
Vibration				Х		Reaching below knees				Х	
Abrupt temperature changes				Х		Lift/carry up to 40 lbs.		Х			
Heat (above 85 F)			Х			Push/pull to 100 (force)			х		
Cold (below 65 F)				Х		Climbing ladders			х		
Wetness				Х		Climbing stairs			Х		
Dampness				Х		Sweeping/mopping				Х	
Dryness				Х		Operating foot controls					Х
Odors & dusts				Х		Manual Tasks					
Work with solvents					Х	Grasping with one hand	х				
Work acids, bases					х	Grasping with both hands	х				<u> </u>
Work with oils					Х	Manipulating with one hand	Х				
Work with toxins					Х	Manipulating with two		Х			
						hands					
Poor ventilation					Х	Handwritten communication		х			
Fumes					Х	Using keyboard	Х				
Mechanical hazards			Х			Using hand tools		Х			
Electrical hazards			Х			Twisting/wringing			Х		
Sensory Tasks						Scrubbing/washing/				Х	
						polishing					
Seeing close (reading)	Х					Scraping				Х	
Seeing far (observation)			Х			Equipment Operation					
Peripheral vision			Х			Driving car / light truck					Х
Seeing colors			Х			Driving heavy truck / van					Х
Verbal communication	Х					Operating forklifts, stackers					Х
Hearing speech		Х				Operating hoist equipment			Х		
Hearing mechanical sounds			Х			Operating shop machinery			Х		
Sensing odors					Х	Operating power tools	Х				
Sensing by touch					Х	Operating torch					Х