Job Title	Entry Level Mechanical Designer	Date	8/22/2024					
Department	Engineering	Manages Employees	□ Yes ⊠ No					
Reports To	Engineering Manager	FLSA Status (to be completed by HR)	Image: Second state Image: Second stat <					
Revision	А							
Summary (Main Purpose)								
Under the direction of the Engineering Manager, the Entry Level Mechanical Designer will support and 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)							
 bussing for LV and MV switcomplying with applicable of ensure workflow remains w Review and interpret or mentors to create designs. Experience using, or the and SolidWorks mechanication. Improve the design proproductivity of the design and evaluate and design methods and control participate in cross-fun problems, and pursue contriand methods. Attend training, review growth of technical competent. Support new product detechnologies and trends. Follow all housekeepin 	cess using standardized practices nd support process while reducing echanical components and fabrica	ad implementing engine within a project manag- ments. greements and receive D modeling software s , tools and systems, in schedule and budget. tion parts for bussing s ts capabilities and perf shing. Ive manufacturing, des manufacturing and ins ork instructions related n. g up to date with new i th all quality and safet	eering standards, gement structure to e direction from uch as AutoCAD, PDM nprove the quality and systems, switchgear, formance criteria, sign and quality stallation processes I to mentorship and ndustry products,					
Required Skills and Experience (N licenses/certifications or other knowl	linimum requirements in terms of educat ledge, skills, and abilities).	tional background, work ex	xperience,					
 accordance with customer's Support design for proc Support the creation of Experience using, or the PowerPoint. Experience using, or the 	ort and design multi-phase and DC s functional requirements for LV ar duct assembly, manufacturing and product and project quotes with sl e ability to learn Microsoft Office p e ability to learn PDM, SolidWorks	nd MV equipment. testing. <etches and="" concepts.<br="">roducts, including Out</etches>	ook, Excel, Word,					
Additional Skills and Experience (Preferred or helpful) AAS in relevant engineering discipline.								
AAS in relevant engine	enng uscipline.							

- 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 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 Designer

Working Conditions

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

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

C = Continuously	75%-100% of time

F = Frequently	50%-74% of time
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- **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)			1	х		Climbing ladders	1		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				
Work with oils					Х	Manipulating with one hand	Х				
Work with toxins					Х	Manipulating with two hands		х			
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	1	1	Х		
Hearing mechanical sounds			Х			Operating shop machinery	1		Х		
Sensing odors					Х	Operating power tools	Х				
Sensing by touch					Х	Operating torch					Х