

Job Title:	Entry Level Refrigeration System Design Engineer	Job Category:	Commercial Temperature & ULT Refrigeration Systems
Department/Group:	Thermal Forcing Products	Job Code/ Req#:	N/A
Location:	Sonora, CA USA	Travel Required:	Some travel may be required
Level/Salary Range:	\$60,000 - \$65,000	Position Type:	Full Time
HR Contact:	ess@essproducts.com	Date Posted:	7-9-2021
Will Train Applicant(s):	Yes, in advanced refrigeration system design	Posting Expires:	When Position is Filled
External Posting URL:			
Internal Posting URL:			
Applications Accepted By:			
EMAIL: ess@essproducts.com Subject Line: ME Position		MAIL: HR Department ESS, Inc. 21089 Longeway Road Sonora, CA 95370	
Job Description			
<p>ROLE AND RESPONSIBILITIES</p> <ul style="list-style-type: none"> • Design the refrigeration plant for high performance vapor compression mechanical refrigeration systems used in thermal forcing systems for R&D & high-volume automated semiconductor chip testing handler systems. • Use 3D CAD to design sheet metal parts & assemblies for machine cabinets. • Use 3D CAD to design solid plate evaporators for both closed loop direct expansion refrigeration and open loop expendable refrigerant (LN2) systems. • Design automation (control) systems using PID analog/digital I/O PLCs, sensors, smart controls, electromechanical and solid-state relays, etc. • Program PLCs & create documentation. • Training for all responsibilities will be provided. <p>QUALIFICATIONS AND EDUCATION REQUIREMENTS</p> <p>BS in Mechanical Engineering with a good theoretical foundation in physics, thermodynamics & vapor compression mechanical refrigeration</p> <p>PREFERRED SKILLS</p> <ol style="list-style-type: none"> 1. SolidWorks 3D CAD & 2D CAD for Refrigeration Piping Diagrams & Electrical Schematics/Diagrams 2. Basic Experience with digital communications, i.e., RS232/422, Ethernet, GPIB-488 – Modbus RTU/TCP & Ethernet/IP protocols 3. MS Office: Excel, Word, PowerPoint, Outlook <p>ADDITIONAL NOTES</p> <p>We are looking for an entry level mechanical engineer who is passionate about pushing the envelope in the design of cutting-edge vapor compression mechanical refrigeration systems used to address the rapidly changing requirements of the global semiconductor chip testing industry and several other markets that require high performance low & ultra-low temperature (ULT) mechanical refrigeration systems.</p>			
Reviewed By:	K. Phillips	Date:	7-9-2021
Approved By:	G. DiBartolomeo	Date:	7-9-2021
Last Updated By:		Date/Time:	