### Job Description

**Role and Responsibilities**

- 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.

**Qualifications and Education Requirements**

BS in Mechanical Engineering with a good theoretical foundation in physics, thermodynamics & vapor compression mechanical refrigeration

**Preferred Skills**

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

**Additional Notes**

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.