Job Description

De Dietrich PROCESS SYSTEMS

JOB TITLE: Design Engineer	
DEPT NAME: Engineering	**FLSA STATUS :** ☒ **EXEMPT** ☐ **NON-EXEMPT**

POSITION SUMMARY

Responsible for applying traditional mechanical engineering principles and practices in support of the company's manufacturing operations and customer engineering groups. Utilize project related sketches, specifications, and other engineering research reference data to formulate AutoCAD (2D) and SolidWorks (3D) design drawings to fulfill contract requirements. Coordinate technical and commercial exchanges of Company products and companion equipment from receipt of assigned project order to completion and shipment. Create detailed mechanical designs and layouts for both fabricated and assembled systems including reactors, heat exchangers, pumps, piping, valves, and structures.

POSITION QUALIFICATIONS

MINIMUM EDUCATION: Associate's Degree in Mechanical Engineering from a U.S. accredited institution with experience identified below.

MINIMUM EXPERIENCE : Minimum Five (5) years of design experience, preferably in an engineering environment working with piping & skid systems.

PREFERRED EXPERIENCE : Experience with skid design, incorporating tanks, reactors, process instrumentation, valves, pumps, etc.

PREFERRED CERTIFICATIONS/LICENSURE (e.g., CPR): SolidWorks certifications a plus

KNOWLEDGE, SKILLS AND ABILITIES REQUIRED:
Proven proficiency in 3D design (SolidWorks preferred). Working knowledge of fabrication and machining manufacturing procedures and tolerances. Excellent oral and written communication skills required. Experience in piping, skid system design with understanding of Process & Instrumentation Diagrams (P&IDs) preferred. Detail-oriented with exceptional organizational abilities

PREFERRED KNOWLEDGE, SKILLS AND ABILITIES:
Detail oriented self-starter with high level of initiative. Must be able to work both independently and as part of a team with minimum supervision. This position requires advanced verbal and written communication skills for effective communications with customers, vendors, and colleagues at all levels of the organization and with different levels of technical expertise. Exceptional time management and organizational skills.

SUPERVISORY RESPONSIBILITIES: ☐ **YES** ☒ **NO**

ESSENTIAL / PRIMARY DUTIES (The essential job functions or primary responsibilities that must be performed unaided or with the assistance of an accommodation – all job functions should begin with an action verb)	% OF TIME PERFORMING DUTY
ESSENTIAL JOB FUNCTIONS:	
1. Utilize SolidWorks (3D) and AutoCAD (2D) software to create conceptual designs, assemblies & Bills of Material, or revise existing designs from system files and databases equipment drawings, specifications, and other pertinent engineering data.	50%
2. Perform design & create detailed drawings required for skid assemblies, frames, piping systems, parts, etc. in accordance with sales order specifications and design technology to provide a high quality, successfully operating installation shipped by the assigned delivery date.	20%

3.	Assist in the development or revision of system P&IDs (Process and Instrumentation Diagrams), pneumatic and hydraulic schematics and basic process flow diagrams utilizing SolidWorks/AutoCAD software.	10%
4.	Provide mechanical engineering technical support to internal and external sales, engineering, and service groups.	5%
5.	Provide hands-on testing and inspections in assembly shop as needed to verify functionality of assemblies or parts designed.	5%
6.	Assist with the development and/or revisions of technical data sheets as needed for procurement from vendors or sub-suppliers.	5%
7.	Other duties as may be assigned.	5%

WORKING CONDITIONS

Employee will work mainly in an air conditioned, modern office. Some travel to other DDPS and customer sites will be required at times for fabrication, assembly, design reviews, installation assistance, start-up assistance, and training. Additional information regarding the work environment and the physical/mental requirements of the position are detailed on the attached page.