



Mechanical/Piping Engineer – Wellons, Inc.

Wellons, Inc., a Renewable Energy Company and a leading manufacturer for industrial boiler and cogeneration plants, has an opening for an experienced **Mechanical/Piping Engineer** to join our team.

This position will assist with the design and development of P&ID and piping systems for our Industrial Biomass Boilers, Cogeneration Plants, and Lumber Dry Kilns as well as auxiliary equipment.

In this role you will report to the Process & Piping Supervisor, but must be comfortable interfacing with other engineering personnel, shop staff, and non-engineering department personnel and management. You will need to have a good working understanding of processes associated with thermal fluid systems and a familiarity with numerous piping systems & pieces of equipment including; Boilers, Thermal Oil Heaters, Deaerators, Steam Drums, Mud Drums, Fluid Storage Tanks, Cooling Towers, Pumps, Valves, Steam Traps, Soot Blowers, Actuators, etc.

RESPONSIBILITIES:

This is a full-time position which includes, but is not limited to, the responsibilities and authorities outlined below.

- Utilizing P&IDs and ASME code (BPVC, B31.1, B31.3) prepare & create 3D piping models and 2D drawings for field installation of numerous piping systems; feedwater, cooling water, steam, etc. that meet system requirements.
- Adhere to and update when required internal piping standards and specifications for pipe, fittings, flanges, and valves.
- Create & Update P&IDs for thermal fluid systems.
- Perform stress analysis on piping systems to evaluate safety.
- Perform mechanical calculations to size and analyze piping systems & equipment.

The scope of these calculations could include:

- Pressure drops, flowrates, and pipe stress analysis of fluid systems & piping runs
- Pressure vessel and boiler pressure parts stress analysis
- Heat mass balance, heat transfer surface area requirements
- Line, Pump, and tank sizing
- Generate internal requisitions to the purchasing department to order piping equipment.
- Provide technical support to internal customers such as field supervisors, third party installers, Wellons Customer Service and Wellons Sales.
- Travel to job sites as required to provide onsite technical support to customers or installers.

REQUIRED EDUCATION:

- Bachelor's Degree in Mechanical Engineering, or similar

REQUIRED SKILLS:

- At least 2-4 years' experience in industrial processes piping design
- Knowledge of Bentley AutoPlant & OpenPlant P&ID or equivalent CAD piping & P&ID programs
- Proficient in Autodesk Product Suite (AutoCAD and Inventor preferred)
- Good knowledge in MS-office applications (Excel, Word, Access)
- Ability to travel as required

DESIRED SKILLS:

- Additional CAD Program knowledge; Revit, Tekla, Solidworks, Vault, etc.
- Ability to read Process and Instrumentation Diagrams (P&ID).
- Familiarity with industrial equipment: boilers, conveyors, ductwork, heat exchangers, piping, kilns, structural steel, etc.
- Familiarity with manufacturing processes, hands on experience is especially valuable.
- Knowledge of the basic operating principles of thermal fluid systems such as Boilers, Thermal Oil Heaters, Kilns, etc.
- Knowledge of relevant codes; ASME, AISC, ASCE, TEMA

BENEFITS: Vacation, Profit Sharing, Health, Vision & Dental, 8 paid holidays, Onsite Fitness Center
Casual Fridays, Monday – Friday 7am – 4pm