



**King Industries
Job Description
Building Plant Process Engineer**

Location- Norwalk, CT

King Industries, Inc. is actively seeking Building Plant Process Engineers to join our Engineering Department. Ideal candidates will have a B.S. degree in Chemical Engineering and 0-2 years of professional experience in process engineering within chemical plant operations. The Building Engineer position is a unique developmental role that provides hands-on plant experience, formal training, and progressive project responsibilities. This role is designed to prepare individuals for full Process Design Engineer duties.

Intent:

The primary intent of a Building Engineer is to maintain a deep understanding of the manufacturing operations occurring in their assigned process area. Developing detailed expertise in your assigned process area is essential to safe operations and maintain consistent product quality to our customers.

Skills Required:

- Regular and consistent attendance at our Norwalk location.
- Excellent verbal and written communication skills.
- Competency in field of chemical engineering process operations involving heat transfer, fluid flow, mass transfer, distillation, reaction engineering and liquid/liquid extraction.
- Competency in the use of personal computers for business and technical applications.
- Excellent organizational skills, persistence, good judgment, and ability to follow through on all details and manage multiple chemical processes simultaneously
- Must be self-motivated with strong desire to learn and master new chemistry and chemical processes

Education and Experience Requirements:

- Bachelor of Science degree in Chemical Engineering, from an accredited university
- 0-2 years professional experience in process engineering in chemical plant operations.

Duties and Responsibilities:

- Develop a strong working knowledge of all processes in assigned process codes.
- Develop and maintain a strong working knowledge of process design and all relevant technical information and details for each process and system in assigned process areas.

- Must understand all Process Flow Diagrams (PFD's) for all assigned processes in building.
- Must develop a detailed knowledge of process operating conditions, flow rates, temperatures, pressure, vacuum and compositions of all streams per the Standard Operating Instruction (SOI).
 - Responsible for knowing physical properties and vapor pressure of RM's, fluids and products
 - Understand process samples and QC testing plus meanings of key QC tests
 - Learn waste streams and environmental aspect of specific processes
 - Understand equipment set-up and technical details of process equipment
 - Become an expert in start-up and shut-down procedures
- Daily process monitoring includes, but not limited to, log sheets, batch sheets, DCS data, etc.
- Develop operating parameter lists and ranges for all processes and all batches in assigned building (Batch sheet ranges and log sheet ranges)
- Hands-on operation of process equipment
- Review completed batch sheets with operators for compliance and improvements.
- Recommend, propose and work with Production on updates and improvements to batch sheets.
- Teach and advise operators on best ways of troubleshooting operating problems and maintain a safe optimized operation of production units.
- Off shift visits to meet with 2nd and 3rd shift operators at least once a quarter and as needed for training. This includes attending the shift change meetings.
- Attend Production and Engineering meetings.
- Coordinate, with Production and Engineering, daily and project maintenance work in assigned processes.
- Conduct/Assist with Lock Out Tag Outs (LOTOs), review and approve safety work permits (SWPs) on a daily basis.
- Advice and assist start-up operations after a maintenance shut down and during non-routine operations.
- Participate in Process Hazard Analysis (PHAs) for all assigned processes.
- Propose projects for process changes and improvements that would improve process operability, process safety and control, improve product quality, reduce waste and down time.
- Write ECNs and manage small projects for assigned processes.
- Review all ECNs for assigned processes.
- Work closely with Project/Design Engineering on large capital projects associated where needed.
- Collaborate with Engineering to maintain Standard Operating Instructions (SOIs) – specifically startup, operating and shut down sections.

To apply, please submit your cover letter and resume to careers@kingindustries.com.