

Employer: Terrabon, Inc. (for further information see www.terrabon.com)

Title: Process Operator/Plant Technician II

Categories: Chemical Plant Operations
Routine Maintenance

Travel Required: N/A

Job Type: Non-Exempt

Full Time with some periods of shift work (occasionally longer hours if extra hours are required they will be compensated accordingly)

Education: High school graduate or equivalent education. College level training class in chemical process operations, preferred.

Experience Required: 2+ years plant experience and/or maintenance work

City: Bryan

State/Province: TX- Texas

Job Description: Terrabon is searching for an experienced plant technician to operate and maintain Energy Independence #1 research/production facility operating in an efficient, safe cost effective manner with a basic understanding of chemical process, mechanical, electrical, pneumatic, refrigeration, and other equipment involved in the plant process.

Responsibilities:

Candidate will be part of a team responsible for the operation of the plant and the supporting equipment and systems, including inspecting and monitoring operating components and reporting plant status. Controls equipment units or system that processes chemical substances into specified industrial products, according to knowledge of operating procedures, chemical reactions, laboratory test-results, and correlation of process instrumentation. Reads plant specifications to ascertain product, ingredients, and prescribed modifications of plant procedures. In certain cases, manually feeds chemical ingredients into the process.

This position may be responsible for routine water or gas chemistry analysis, environmental sampling and participation on emergency response crews. Reports to Operations Supervisor.

- Follows Operating Discipline principles, procedures and practices to ensure safe and efficient operation of assigned plant areas.
- Operates and field checks process equipment. Monitor process conditions, equipment and control systems.
- Performs tasks assigned to operations.
- Supervise other operators/technicians
- Uses trouble shooting skills to resolve process related deviations and

problems.

- Uses process knowledge and skills to make improvements in plant performance and Operating discipline.
- Monitors, collects and inputs plant metrics for asset utilization, conversion costs, production yields and identify opportunities for plant optimization.
- Perform process equipment troubleshooting, minor repairs, improvement and preventative maintenance, utilizing appropriate processes and disciplines.

Tasks:

- Start automatic feed of solid or semi-solid materials through equipment units, such as heating vessels and mixing tanks; or dumps pre-weighed ingredients into tanks, hoppers, or onto conveyor.
- Move controls to regulate feed of liquids and gases through equipment in specified timing and sequence, or starts automatic feed. Sets up and adjusts indicating and controlling devices
- Observe gauges, signals, and recording instruments, turns valves, and moves controls to regulate temperatures, pressures, and flow of steam, coolant, and chemical constituents through system to effect prescribed reaction within critical limits, according to knowledge of equipment and process.
- Maintain log of gauge readings, shift production, and equipment malfunctions.
- May direct activities of other workers assisting in control or verification of process.
- Move control settings to make necessary adjustments on equipment units affecting speeds of chemical reactions, quality, and yields.
- Monitor recording instruments, flow meters, panel lights, and other indicators, and listen for warning signals, in order to verify conformity of process conditions.
- Control or operate chemical processes or systems of machines, using panel boards, control boards, semi-automatic equipment.
- Record operating data such as process conditions, test results, and instrument readings.
- Confer with technical and supervisory personnel to report or resolve conditions affecting safety, efficiency, and product quality.
- Draw samples of products, and conduct quality control tests in order to monitor processing, and to ensure that standards are met.
- Regulate or shut down equipment during emergency situations, as directed by supervisory personnel.
- Start pumps to wash and rinse reactor vessels, to exhaust gases and vapors, to regulate the flow of oil, steam, air, and perfume to towers, and to add products to converter or blending vessels.
- Interpret chemical reactions visible through sight glasses or on television monitors, and review laboratory test reports for process adjustments.

- Patrol work areas to ensure that solutions in tanks and troughs are not in danger of overflowing.
- Inspect operating units such as digestors, storage tanks, scrubbers, collectors, and driers to ensure that all are functioning, and to maintain maximum efficiency.
- Calculate material requirements or yields according to formulas.
- Gauge tank levels, using calibrated rods.
- Repair and replace damaged equipment.
- Perform routine laboratory analysis on plant samples.
- Train others in the proper operation of equipment and tools.
- Manual labor.
- Perform routine laboratory analysis on plant samples.

Qualifications:

Required:

- At least 2+ years of plant and/or maintenance experience.
- High school graduate or equivalent education. College level training class in chemical process operations preferred.
- Valid Texas drivers license with safe driving record.
- Ability to lift 50 pounds regularly.
- Undergo drug and/or alcohol testing as required by TERRABON.
- Must arrive at work consistently, on time, and in condition to perform required tasks.
- Must be fluent in English language, speaking, reading and writing.
- Respectful, team player, courteous.

Working Conditions:

Candidate must be willing to work occasionally under the following working conditions typical of what is present in industrial/agricultural facilities located in Texas.

- Work that requires getting dirty and working around unpleasant smells.
- Work with hazardous and toxic chemicals using proper protective or safety equipment. Protective equipment may result in periods of extreme heat and noise exposure.
- Periods of physically strenuous and demanding job conditions such as lifting, pulling, and managing equipment and objects in open environments subject to all weather conditions present.
- Use hands to handle, control, or feel objects, tools or controls.
- Ability to make decisions that impact the results of co-workers, clients or the company.
- Ability to make decisions that affect other people, the financial resources, and/or the image and reputation of the organization.
- Mistakes are not easily correctable and have serious consequences.

- Opportunity to make decisions without supervision.
- Requires exposure to hazardous conditions, exposure to high places.
- Freedom to determine tasks, priorities, and goals.
- Requires repeating the same physical activities or mental activities over and over.
- Requires being exact or highly accurate.
- Requires meeting strict deadlines (job pace is determined by the speed of equipment or machinery).
- Requires coordinating or leading others in accomplishing work activities.
- Requires work with others in a group or team.
- Includes responsibility for work outcomes and results.
- Includes responsibility for the health and safety of others.
- Requires working outdoors, exposed to all weather conditions.