

Sr. Process Engineer

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Company: Freeport LNG

Location: Freeport

Category: other-general

The **Senior Process Engineer** serves as the primary technical liaison for all aspects of process technology, encompassing liquefaction, natural gas, acid gas removal, and NGL extraction, operating under a hybrid work model at the facility that includes partial remote work.

Key responsibilities include plant performance monitoring and troubleshooting, process studies and modeling support for plant optimization, process safety and regulatory compliance support, and Communities of Practice and Lessons Learned ownership. This position drives technical consistency and assurance across operating sites through regular operating site presence, interaction, and application of internal and external technical standards. The Senior Process Engineer is the technical resource for all matters related to the process support at all of Freeport's operating facilities.

The Senior Process Engineer is expected to have expertise in a process plant operating environment in natural gas treatment, NGL extraction and liquefaction technology. For example, they should be familiar with:

Acid gas removal systems

Dehydration systems

Pumps, reciprocating compressors, and other rotating equipment

Cryogenics and liquefaction

APCI LNG technology, specifically mixed-refrigerant optimization

In addition, the candidate must have a strong background in process safety management and process safety applications including HAZOP, LOPA and other forms of PHA studies.

Duties/Responsibilities

Provide process engineering guidance to Operating facilities with recommendations related to process systems design, operational practices and controls.

Support and execute optimization plans for the LNG process in line with the company goals and objectives year to year

Optimize Mixed-refrigerant (MR) composition and MR system as needed

Support plant Operations personnel in troubleshooting process issues and concerns.

Develop and conduct process simulations to investigate system steady state responses in support of diagnostics and troubleshooting.

Propose design solutions and performance tests requirements towards optimizing production or solving process related incidents.

Develop and utilize Process Monitoring tools that monitor process efficiency and make improvement recommendations to enhance production and efficiency performance.

Support preliminary cost estimates, and schedules to support capital and facility upgrade projects.

Thoroughly understand the technical Management of Change (MOC) process and utilize it in support of capital projects and routine facility changes. Support the technical review and closeout of critical Management of Change (MOC) activities at Operating facilities.

Facilitate and/or participate in Process Hazards Analysis (PHA) and Hazard and Operability Reviews (HAZOP) to ensure safety in design and facility operations.

Participate in Pre Startup Safety Reviews (PSSRs).

Facilitate and/or participate in other process safety and technical studies (e.g. Alarm management)

Facilitate and/or participate in incident investigation to analyze equipment and system failures and deviations and provide solutions and corrective actions to root causes.

Assure Operations requirements are considered on major projects, and support Operations Readiness and Turnaround activities.

Interact with and support Commercial Operations, Regulatory Affairs, and other departments to ensure that appropriate process data and analyses are available to support Company's business objectives.

Provide process engineering support for the commissioning, start-up and operation of the LNG plant and/or new process units installed in the facility.

Participate in audits as a technical resource.

Conduct process-based technical training for operations staff

Minimum Qualification/Work Experience

Minimum Education Required:

Bachelor's Degree in Chemical/Process Engineering

Minimum Experience Required

10+ years' of Process Engineering experience in an APCI technology-based operating LNG Export Facility.

Knowledge and practical experience with Mixed-Refrigerant and MR systems optimization and MCHE profiles.

Experience with LNG, NGL, natural gas processing operation and troubleshooting.

Full knowledge of LNG Pre-Treatment facilities (AGRU, Dehydration and NGL

Separation)

Knowledge of PSM and PHA studies.

Required Knowledge/Skills/Abilities

Strong teamwork and administrative abilities are required.

An acute sensitivity to safety issues in a hazardous environment.

Exceptional written, verbal, and interpersonal communication skills.

Ability to communicate effectively at all levels of an organization and with individuals and groups from different disciplines, industries, and governmental agencies.

Able to work with a culturally diverse group of technical individuals whose skills cover the range required to engineer, operate, and maintain the LNG terminal and Liquefaction production facilities.

Possess the personality and ability to relate to and to establish a mutually respectful relationship with 1) management, 2) peers and 3) the various facility level workers (Plant Manager, plant supervision, and plant workers) whom are all responsible for ensuring good operations.

Organized, planning skills, able to manage multiple activities and programs in timely fashion and with a high degree of accuracy, able to meet work deadlines.

Exceptional problem solving and analytical skills.

HSE Roles and Responsibilities

Support the policies, efforts, and programs of Freeport LNG Health, Safety and Environmental (HSE) Management System. Actively participate in the HSE Management System Policies. Ensure that HSE concerns are given priority in all activities completed within their area of responsibility. Implement routine inspections to ensure safe operating conditions.

Working Conditions and Physical Expectations

Work Environment

Must be able to wear all necessary PPE equipment to perform job functions.

Operates in an industrial plant environment.

Exposure to indoor and outdoor weather conditions.

Not necessarily protected from weather and temperature changes. Possible exposure to hot, cold, wet, humid or windy weather conditions.

Exposure to moving mechanical parts and electrical circuits.

Exposure to constant or intermittent sounds of a pitch level sufficient to cause marked distraction.

Routinely uses standard office and field communications equipment such as computers, phones, photocopiers w/scanner and fax, and radios.

Physical Demands

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job.

Ability to drive to other Company work locations as required.

Ability to move throughout all areas of the facility.

Stand and/or sit continuously and perform job functions for a full shift.

The incumbent is required to use hands to finger, handle or feel; and reach with hands and arms.

Physically able to walk, stand, bend, stoop, kneel, reach, twist, lift, push, pull, climb, balance, crouch, handle and move items weighing up to 20 lbs. without assistance.

Visual acuity corrected to perform job functions. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception and ability to adjust focus.

While performing the duties of this role, the incumbent will be required to talk and

hear.

May be required to enter confined spaces.

May be required to work at elevated heights.

Freeport LNG does not discriminate against any employee or applicant on the basis of race, color, religion or creed, national origin, sex, pregnancy (including childbirth, lactation and related medical conditions), age, marital status, physical or mental disability, veteran status, genetic information (including characteristics and testing), gender identity/transgender status, sexual orientation, HIV/AIDS status or any other characteristic protected by federal, state or local law.

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