PROCESS CONTROLS ENGINEER

Posting ID: EM1952555D

Company: Marathon

Position Type: Full-Time

Company Website: https://marathonpetroleum.dejobs.org

Work Location: Jamestown, NM

Salary: DOE

College Major(s): Mechanical Engineering (ME), Electrical/Computer Engineering (EE/CpE)

College Level(s): Graduate Student, Alumni

OVERVIEW

Marathon Petroleum Corporation (MPC) is a leading, integrated, downstream energy company headquartered in Findlay, Ohio. The company operates the nation's largest refining system with more than 3 million barrels per day of crude oil capacity across 16 refineries. MPC's marketing system includes branded locations across the United States, including Marathon brand retail outlets. Speedway LLC, an MPC subsidiary, owns and operates retail convenience stores across the United States. MPC also owns the general partner and majority limited partner interests in two midstream companies, MPLX LP and Andeavor Logistics LP, which own and operate gathering, processing, and fractionation assets, as well as crude oil and light product transportation and logistics infrastructure.

Roles and Responsibilities

Provides process control engineering support for refinery operations and capital projects. Ensures refinery process unit static and dynamic control objectives are met through tuning, development of control strategies and troubleshooting existing regulatory and multi-variable control configurations for continuous operations in refinery process units. Works with variety of departments including Operations, Process Engineering, Reliability Engineering, Economics & Planning and Maintenance as well as outside consultants and vendors.

Provides process control engineering support for refinery operations and capital projects using dynamic engineering techniques bringing time and frequency domains to normal engineering tools. Ensures process units behave as linearly and predictively as possible. Utilizes Bode plots, Nyquist diagrams, material and energy balance in tuning/troubleshooting and multi-variable control configurations for efficient and profitable operations in refinery process units.

Provides day to day support for multi-variable controllers to model certainty throughout assigned refinery process units. Works with Process Engineering, Economics & Planning and APC (advanced process control) team, where applicable for solutions to moderate and more complex problems.
Stays abreast of latest control technology through attendance at technical seminars and technical training.

Provides capital and expense project support. Under general supervision, conduct feasibility and simulation studies evaluating economic value and impact on existing control systems; installations. Reviews project documentation, drawings, equipment specifications and complex loop narratives.

Participates on teams to support refinery activities such as process unit alarm management defect elimination, Process Hazard Analysis (PHA) and Management of Change (MOC).

Works extended hours as required, including nights and weekends in process operations environment and during periods of inclement weather. Accesses areas of refinery requiring us of stairs and/or ladders to inspect control equipment.

Responds to process unit control upsets during off hours. Shares an on-call duty with department engineers.

**Education and Qualifications**
Minimum Bachelor’s degree in chemical, electrical or mechanical engineering required.

Minimum of 3 years’ process or process controls engineering experience is required in a refinery setting, is preferred.

Process control engineering experience including implementing and maintaining regulatory control and/or multi-variable control strategies on DCS preferred.

Advanced Process Control experience is a plus

**How to Apply**