

**SENIOR STAFF PROCESS CONTROL ENGINEER
NEXEN INC., LONG LAKE OPERATIONS
FORT McMURRAY, ALBERTA CANADA**

- Long Lake is a joint venture partnership between two industry leading partners Nexen Inc. and Opti Canada Inc., to combine Steam Assisted Gravity Drainage (SAGD) with proprietary OrCrude™ technology, Hydro-cracking and Gasification to produce a premium synthetic crude oil;
 - With more than two billion barrels of recoverable reserves and resources, Long Lake has an estimated reserve life of approximately 40 years, with no exploration risks or declines;
 - Utilizing Shell Gasification technology and the largest “Liquids Gasifiers” in the world, it will produce an initial planned production of 60,000 b/d of premium synthetic crude oil; with regulatory approval in place for an additional 70,000 b/d of upgrading capacity;
- See also: <http://www.nexeninc.com/en/Operations/OilSands/LongLake.aspx>

The Role/Key Points:

- Reporting to the Process Automation Supervisor, the incumbent will act as an “internal staff specialist”, accountable for the development, implementation and maintenance of process control applications, and for the provision of operational support and optimization solutions to the Long Lake Upgrader/SAGD facilities;
- The main emphasis will be on daily process control applications and improving the operating efficiency and stability of the Plant; this will be achieved through constant awareness of operational performance, control systems changes, and the utilization of advanced process control applications;
- Will be responsible for promoting and justifying those projects which will measurably improve Safety, operability, stability and flexibility or are seen to have high economic viability;
- Demonstrates an in-depth understanding of the complexity of the total process, the inter-relationships of the various process parameters, the chemistry of the process, and its dynamics;
- Provides specialized day-to-day and long range engineering services of process controls for the achievement of operating objectives and the solution of specific problems;
- Develops and monitors process control applications and provide troubleshooting and enhancements as required by production, maintenance and engineering personnel, and produces or updates associated documentation;
- Develops detailed project(s) scope, cost estimates and benefits to justify PC projects and secures funding, insures Contractors meet Safety, Quality, Cost & Schedule;
- Supports Turnaround planning and execution;
- Assists operating and maintenance personnel on HW, SW, analysis and optimization issues relative to process control;
- Serves as the technical expert in the fields of Advanced Process Control, alarm Management and Operator DCS Interface Optimization;

The Candidate:

- Bachelor’s degree in Chemical Engineering or Applied Science or its equivalent, with at least 15 years of diversified process plant support-development and/or design experience either as a client, consultant or contractor; Process control and advanced control engineering specialization is highly desired;
- 10+ years of plant site experience as a Process Control Engineer in a continuous hydrocarbon process facility; 15 years of experience in DCS’s and PLC’s;
- Versed in process control simulation, modeling and identification, linear and non-linear multivariable control and optimization techniques;
- Strong organization planning and new infrastructure development skills;
- Must have strong MS Office skills (Word, Power Point, Excel, Access & Outlook);
- Experienced with the design and implementation of IEC 61511 compliant systems;
- Deep knowledge of Process Safety Management requirements;
- Prior experience with Delta V DCS and Foundation Fieldbus, will be considered an asset;
- **Experience and process control knowledge with the majority of the following processes is desired: Bitumen Production - Crude Distillation - Hydro Treating/Hydrodesulphurization - Vacuum Distillation - Gas Treating and Sulphur Recovery - Thermal Conversion – Hydrocracking - Power Recovery - Waste and Water Treatment Plants – Utilities;**
- Must possess effective leadership, communication, interpersonal, and organizational skills.

Compensation:

- A very attractive six figure Base Salary, Performance Incentive Bonus, full relocation provisions, “Fort McMurray Adjustment”, Housing / Mortgage Assistance, and a comprehensive “market competitive” Benefits package including attractive Savings /Pension plans and eligibility for “Long Lake Incentive Bonus”; Four (4) day compressed “earned days off” (EDO) work week;
- Exceptional career opportunities and support for ongoing professional development and progression.

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