

Position Title

Fiber Optic Engineer - Instrumentation Specialist

Opsens Solutions Inc.

Opsens Solutions Inc. is a fully integrated oil and gas service company with operations based in Edmonton, and sales and management in Calgary. Opsens Solutions provides fiber optic and digital based instrumentation for reservoir surveillance monitoring solutions in the SAGD, CO2 sequestration, and gas well markets. Opsens Solutions is currently seeking a professional engineer with experience in fiber optics to train, coach, mentor, and support our Fiber Optic field personnel.

Position Overview

The Lead Fiber Optic Engineer will be based in Edmonton and report to the Operations Manager of Opsens Solutions. The candidate will have a strong technical background in Fiber Optic instrumentation and will lead the training of our Field Fiber Optic Technicians. This role will also include a close working relationship with engineering for the continued development and implementation of quality control procedures for both manufacturing and field installation. The position's primary responsibilities also include:

- Participate in efforts to conceptualize research, design, develop, implement, maintain, repair, replace, and provide training on Fiber Optics and related products and technologies as used in the oil and gas industry.
- Review current Fiber Optic procedures, updating processes, procedures, and manuals as needed. Communicating the processes and procedures to the technical team on a regular basis.
- Technical expertise in Fiber Characterization, OTDR, Insertion Loss/Optical Return Loss, Optical Spectrum Analyzers, Dispersion, Fiber Connector Inspection and application level testing.
- Capable of using company proprietary fiber optic equipment to perform pre-installation fiber splice loss for acceptable readings to meet company specifications.
- Recording and documenting all system readings for final testing and the acceptance documentation package.
- Take the leadership of all aspect of our in-house fiber optic sensor line and training-supervision of the instrumentation technical specialists.
- Supervising field crews involved in the installation of fiber optic and non-fiber optic sensors, ensuring project execution.
- Conduct Training in fiber optic splicing and terminating work on a variety of fiber optic cables types (multimode and single mode fibers, polyimide and acrylate coated fibers, tight buffer and loose tube cables, etc.).

- Splicing of optical fibers using fusion splice equipment. Termination, curing, polishing and testing of fiber optic cables with a variety of mechanical connectors (SC, FC, ST, LC, etc.; APC and non-APC).
- Troubleshoots and diagnoses malfunctions from the office or at the customer's site to eliminate problems as quickly as possible.
- Establishes maintenance programs for operating equipment and instrumentation.
- Performs Training on surface system configuration at customer's site (hardware and software).
- Participate in a quality control program for sensors and systems in the company and in the field.
- Develops training material and training staff to become field technicians including fiber optic and non-fiber optic sensors.
- Developing field procedures and manuals.
- Working closely with Opsens Engineers and Senior Fiber Optic Technicians to develop new methods and procedures.
- Working with senior staff on the development of Opsens' safety program.

Qualifications

- Should have as a minimum 5 years experience as a Fiber Optic Engineer in Telecom or Instrumentation. P.Eng is preferred. Considerable knowledge of the standard practices, materials, tools and equipment used in the electronic and fiber optic instrumentation trade; considerable knowledge of the principles of electronics and fiber optic instrumentation; good knowledge of the occupational hazards of and safety precautions involved in electronic and fiber optic work.
- Knowledge of the oil and gas QHSE standards will be given preference.
- Knowledge of Distributed Temperature Sensing (DTS) technology will be given preference.
- Effectively supervise; read and interpret typical fiber optic and electrical connection schematics; keep records and to prepare written reports; physical condition that permits such activities under adverse temperatures and/or weather conditions
- Focussed on quality and attention to detail.
- Ability to travel periodically (5%-20%)

For more information visit:

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