

**POSITION TITLE:** HTL Technology Process Engineer  
**SUBSIDIARY/BUSINESS UNIT:** Ivanhoe Energy Holdings Inc.  
**LOCATION:** San Antonio, Texas  
**REPORTS TO:** Vice President of Technology  
**Salary:** \$95,000 US +

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**POSITION SUMMARY:**

Reporting to the VP of Technology, the incumbent will help to oversee and support the process engineering efforts to develop commercial HTL (Heavy to Light) process units for Ivanhoe Energy.

The position will assist and perform static and real-time modeling efforts for HTL in conjunction with the contract engineering process modeling. The incumbent will participate in operation and management of the FTF (Feedstock Test Facility) and help with development of process R&D and enhancements to the HTL process. This is a functional process engineering design position that will be required to oversee and review all process design aspects of the HTL process. The position will be expected to support and help lead development of conceptual and preliminary design work, including the preparation of proposals. This individual will check contractor design and design specification. The position is expected to have international exposure and require travel to location for proposed facilities. The incumbent will participate and support start-up, and operational, activities of new facilities.

**RESPONSIBILITIES:**

- Participate in operation of the FTF (Feedstock Test Facility) and help with development of process R&D and enhancements to the HTL process.
- Assist and perform modeling efforts for HTL in conjunction with the contract engineering process modeling.
- Support the improvement activities associated with the HTL process through research and development activities.
- Support and help lead development of conceptual and preliminary design work.
- Support definition and design of the environmental and emission control facilities required by the HTL process.
- Identify needed infrastructure facilities required to support the HTL process.
- Aid in development of commercial arrangements required to supply feedstock and market product for the HTL process.
- Prepare economic assessments of various opportunities for HTL applications.
- Review and check the process designs as they are developed for the HTL (Heavy to Light) process by contract engineering firms.
- Both prepare and oversee preparation of proposals and design specification packages.
- Support start-up and operational activities of new facilities.

**MINIMAL QUALIFICATIONS:**

Masters Degree in Chemical Engineering or Bachelors Degree plus 5 years of progressive experience in process operation.

Experience in operations of process units in the chemical or petroleum refining industry with heavy oil processing

Experience with operations or operations support

Required travel minimum 40% up to maximum 80%

Thorough knowledge and skills with the following software packages:

Desktop software: Windows, Microsoft Office, Excel, Word, Access

DCS system: Delta V (Emerson)

Programming: Visual Basic 6.0, VBA

Revised 6/30/2010