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FALCON ID # 15995

Oilfield Services / Senior Process /process Engineer

Residential Country : Saudi Arabia Nationality : Bolivia
Resume Title : Lead Process Engineer Notice Period : 30 Days

EDUCATION

Qualification	Institute / College /university	Year	Country
	University Of Tulsa, Oklahoma, Chemical Engineeri	0000	Not Mention

CAREER SUMMARY

Position	Employer	Country	From Month/ Year	To Month/ Year
Design Engineer	Reputed Company	Saudi Arabia	/	/
Lead Process Engineer	Inesco Engineering & Construction,	Bolivia	/	/
Process Engineer/process Control Engineer	Ivanhoe Energy Inc.	United States	/	/
Process Engineer (Refinery Design)	Lummus Technology	United States	/	/
Foster Wheeler Usa Corporation	Foster Wheeler Usa Corporation	United States	/	/
Chemical Engineering Research Assistant (Delayed C	University Of Tulsa Delayed Coking Project, Jip.		/	/

ADDITIONAL CERTIFICATE AND TECHNICAL QUALIFICATION

Name Of The Course	Course Date	Valid Upto	Name Of Organisation
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Current Salary (Monthly In Usd):	9363	Expected Salary (Monthly In Usd):	12000
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Additional Skills :

Summary

Have about ten years of experience in process engineering. Three years in EPC firms in Houston, TX, three years in an oil operator company as process control engineer using DeltaV in Houston, TX, and over three years in a petroleum refinery in Bolivia and Saudi Arabia as process design engineer. Have experience as independent consultant in process design for the Oil & Gas industry. Currently I am preparing to run piping stress analysis using CAESAR II in small refinery projects and training on PHA to lead company HAZOPs.

Design Engineer

Work at a new 400,000 bpd (15 billion USD) refinery and petrochemical complex. Detailed work as follows:

Reviewed request for projects, precised requirements, conducted site visits and job explanations, checked field cable connection and power availability in the MCC and PIB for equipment and instruments.

Developed heat and material balances, flow plans, design basis, process equipment specification, piping design, preliminary hydraulic balances, utility balances and scope of work for tender.

Prepared the material selection, bill of materials, cost estimation, preliminary process control and instrumentation schemes, permissive and interlocks descriptions, sketches, P&IDs, and Isometrics, Performed process optimization studies to identify or evaluate capital or operating cost savings, process configuration alternatives, and safety facilities requirements.

Direct responsible of the engineering design and revision of the: sales gas filter installation; light coker gas filter installation; caustic soda injection system; wash water injection system; pour point depressant injection system; implementation of API 582 seal plans; and molten sulphur pump electric tracing.

2012 - 2013, INESCO Engineering & Construction,
Cruz - Bolivia

Santa

Lead Process Engineer, Independent Contractor

Detailed Engineering for the Transierra SA, Villamontes Compressor Station Expansion project

Lead two process engineers. Detailed work as follows:

Performed plant pressure drop calculation using hysys. Validation of the basic engineering.

Sizing of a natural gas custody transfer metering station, piping and instrumentation.

Sizing of cyclone filters, cartridge filters, restriction orifice, orifice plates, utility and process lines, control valves, and PSVs. Participated in a control valve noise reduction study under AGA 3.

Performed design work to modify a baffle type 3-phase well test separator into a bucket-weir type, under API 12J. Prepared calculations, instrument specifications, separator capacity chart, process datasheet and mechanical drawing generation.

Developed PFDs and PI&Ds in AutoCAD.

2011 – 2012, YPFB,
Santa Cruz - Bolivia

Process Engineer, Independent Contractor

Detailed work in a 40,000 bpd refinery as follows:

Organized the refinery utility survey.

Performed a hysys simulation of Area 300 Crude Oil Distillation Unit for a revamp project.

Performed a study on the refinery hot oil availability for the new isomerization unit.

Applied Gamma scanning results to fix the maldistribucion of liquid across the de-ethanizer packing.

Worked with HTRI and inspection reports from refinery in order to verify heat exchangers' capabilities.

2008 – 2011, Ivanhoe Energy Inc.
Houston - Texas

Process Engineer/Process Control Engineer

in process and control engineering, developing the HTL (Heavy To Light) technology, in the FTF Feedstock Test Facility a 10 bpd demonstration and research facility. Detailed work as follows: Prepared run reports, plant mass balance, DCS online mass balance, and DCS online pressure balance.

DCS operations, configuration, calculation setups and operator screen setup, using Emerson DeltaV system.

Identified needed infrastructure facilities required to support the HTL process.

Participated in start-up/shut down operations once every two weeks of the FTF (Feedstock Test Facility) and helped with the development of process R&D and enhancements to the HTL process.

2007 – 2008 CB&I Lummus Technology,
Houston - Texas

Process Engineer (Refinery Design)

Worked as delayed coking process engineer in the development of a FEED package for

URC United Refining Company. Basic Engineering, Grass Root Project for a Delayed Coker and Gas Plant.

Sized the coker fractionator, pumps, vessels, filters, absorber, stripper, compressors. piping and instruments, for the coker and gas plant. Research work setting up a delayed coking quench model.

Prepared the process design basis, equipment list and line list, and material of construction selection.

Prepared the simulation of the delayed coker and gas plant using hysys, heat and material balance and utility consumption. Supervised the make of PFDs and PI&Ds, reviews and modifications.

2005 – 2007 Foster Wheeler USA Corporation,
Houston - Texas

Process Engineer (Refinery Design)

Worked on grass root and revamp projects of delayed coker and gas plant design in the range of 50 – 400 million USD projects. Worked on equipment design, sizing and datasheet generation of pumps, vessels, lines, towers and instruments. Prepared permissive/interlock descriptions, the design basis, PFDs and PI&Ds. Used PRO 2, hysys and FW customary templates. Process engineer in a number of projects as listed below:

Total E&P Canada - basic engineering, coker grass root project

Valero revamp project phase III - PI&D review and modification, process engineering.

Indian Oil Corporation - basic engineering, coker grass root project

Total Petrochemical USA, Inc. - basic engineering, coker grass root project

FWUSA - in house delayed coking drum overhead hydrocarbon vapors decay rate model

NAOSC North American Oil Sand Corporation - extra heavy oil upgrader feasibility study.

FWUSA - in house delayed coker blowdown system model,

2004 – 2005 University of Tulsa Delayed Coking Project, JIP.
Oklahoma

Tulsa -

Chemical engineering research assistant (delayed coking)

Worked on studies on coke morphology

Setup of coke classification system, setup correlations for coke permeability, porosity and morphology

Used scanning electron microscope to observe coke internal pore surfaces to correlate coke morphology with type of oil and operating conditions.

Additional Information :

Education

University of Tulsa, Oklahoma

Chemical Engineering M.Sc.

GPA 3.8/4.0

Technical University Federico Santa Maria, Chile

Chemical Engineering B.Sc.