

FluidOil Corp.

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10th April 2018

Mechanical Engineer

COMPANY PROFILE

FluidOil is a UK based oil services technology company which has developed VHTL, a cost efficient and environmentally friendly solution for upgrading heavy and ultra-heavy oil.

VHTL enables continuous onsite upgrading of heavy oil to light oil increasing the API by up to 15°API, at any scale above 1,000bpd and at a yield above 90%. The technology is modular and containerised, allowing flexible deployment thus saving on construction and decommissioning costs. It also generates significant surplus high-grade steam capable of being used for production operations or electrical generation, whilst capturing the vast majority of its emissions, thereby reducing any potential environmental impact. The product can be used as an onsite source of diluent or sold directly to a refinery. FluidOil is now working with strategic partners throughout the world to deploy this upgrading technology with a range of different oil producers from National Oil Companies to small local oil producers.

THE ROLE

FluidOil is seeking a mechanical engineer to join a global engineering and project management team as it delivers various VHTL projects and process package units around the world.

The role will be based in Basingstoke, Hampshire, UK. Spanish speaker is a preference but not essential for this role.

The role of a mechanical engineer includes undertaking the duties of a general process design engineering as well as a more hands on role of plant operations engineer. This integrated role is particularly important to FluidOil as we seek to grow our technology. Apart from work as a mechanical engineer the role includes:

- Working on pilot plants to test theories and designs
- Using test data to optimise designs
- Working with client engineers to integrate systems into supply chains

- Process Package Unit commissioning
- Feedback of designs and operations

REPORTS TO

- Overall: Head of Engineering

KEY RESPONSIBILITIES

- Ensure that they and the Company maintain a safety-first approach to all work undertaken
- As a mechanical engineer, contribute to: Mechanical design and integration, HAZID and HAZOP, Fabrication oversight, Commissioning of equipment, Operations optimisation, Technology development / R&D
- Perform mechanical engineering to develop FEED package(s) internally up to approved for design P&ID's including equipment data sheets, equipment mechanical drawings, GA drawings, sized equipment list, budget quotes, bid tabulations. Safety design, HAZOP and all process areas to provide a cost estimates
- Input to project management including plans and schedules
- Undertake and verify cost estimate and development of plans for units
- Be aware and understand the company business drivers and how these can be influenced by innovated designs and minimum cost solutions
- Be conversant and knowledgeable with respect to current legislation and standards e.g. ASTM, API Codes if applicable, and develop in-house codes and standards, HS&E Regulations, EU Directives and North n Regulations
- Be compliant with the development of company engineering procedures and compliant with industry, international Codes and standards
- Operate, maintain and calibrate existing and new equipment
- Develop skills to attain charter status
- Be an active member of any team which they are assigned to

Job descriptions cannot be exhaustive; the post holder may be required to undertake other duties, which are broadly in line with the above key responsibilities.

FluidOil values diversity and is committed to equality of opportunity.

PERSONAL REQUIREMENTS

QUALIFICATIONS:

- Previous experience of working in a technical role ideally within the oil and gas industry.
- Minimum BSc/BEng/MEng /PhD in Mechanical Engineering or similar with a 2:1 or better- Studies should have covered the following:
 - Piping Design
 - CAD Design on Autocad (SMART and PLANT)
 - Stress Calculations
 - Structural Calculations
 - Project management techniques
- Spanish speaker is a preference but not essential for this role
- Preferably member of IMechE with desire to attain charter status

EXPERIENCE:

Applications are required to demonstrate that they possess at least a majority of the following experience:

- Computer literate with Microsoft Office applications
- Experience in Ms Visio, 3D Autocad, SMART and PLANT modelling including walk through.
- Experience in producing equipment data sheets, equipment mechanical drawings, GA drawings, equipment list, budget quotes, bid tabulations. Safety design, HAZOP and all process areas to provide a cost estimates
- Literate in CAD including Autocad
- Experience in HAZOP technique and awareness of SIL/HAZID etc.
- Some experience in industrial processes preferably in Oil Process Design area

CANDIDATE ATTRIBUTES:

Applications are required to demonstrate that they possess at least a majority of the following attributes:

- A flexible and disciplined attitude to work
- Willing to work outside normal working hours
- Willing to work away from home for extended periods
- Committed to the provision of excellent technical support

- Have a creative approach to problem solving
- Ability to manage complex tasks to tight deadlines
- Ability to organize and time manage, and to be able prioritise effectively
- Excellent oral communication and interpersonal skills
- Ability to produce professional documents and have good English writing skills
- Proficiency in other languages would be an advantage

SALARY

There is a market rate salary and a performance related bonus scheme.