



## SUBSEA ROBOTICS MECHANICAL ENGINEER

Daily work will vary greatly including design, support & project management of small projects.

### Design:

- Mechanical design subsea structures
- Design of robotics mechanisms
- FEA analysis of structures
- Hydraulic systems circuit design
- Hydraulic Components and equipment selection

### Support:

- Subsea robotics equipment and ROV production support
- Test and Integration of new products
- Offshore support
- Troubleshooting
- Technical reports, commissioning manuals, operation manuals

### Project Management:

- Small project related to subsea controls and robotics
- Follow up of Suppliers

### Minimum Requirements:

- Demonstrate working knowledge of configurations control practices
- Demonstrates skills in verifying & validating complex systems
- Experience with industry safety/reliability standards
- Demonstrates ability to identify fundamental issues and technically review & provide guidance for complex problems
- Excellent Organizational skills
- Demonstrates ability to develop and implement standardize design criteria
- System level design and process experience
- A firm understanding of engineering processes
- Proficient in Solid Works software for Mechanical Design
- Proficient FEA software
- Demonstrates excellent written and verbal communication skills and people skills
- Schedule flexibility. Support outside normal operational hours is sometimes required



- The ability to travel as required
- Ability to travel offshore and overseas occasionally

Job Requirements:

- Education: Bachelor's Degree (MASTERS Degree Preferred)
- Experience: At least 1 year or more of work experience designing complex systems with mechanical, hydraulic and control elements. Experience in offshore oil and gas industry; particularly with ROV's or subsea equipment.
- Special Skills/Knowledge: Must be computer literate. Experience in MS Office required. Knowledge of quality, safety, engineering and oil & gas terminology. Excellent organizational, verbal and written communication skills.

Duties & Responsibilities:

- Mechanical Engineer with responsibilities in Design of Subsea Structures/mechanism/equipment, offshore assistance and troubleshooting, project management of assigned projects.

## EXPLORATION PLANNING RESERVOIR ENGINEER

The Exploration Planning Reservoir Engineer, as a part of the Exploration Planning group, provides Planning support for the Global Exploration U.S. Division. The role is a key in compiling the necessary data from the Exploration and Appraisal teams in order to prepare for both the Strategic Plan and the Annual Operating Plan for the Exploration Group. The role also supports the Planning Manager in the Stewardship of the Prospect Inventory. Other support to the Planning Manager includes the overall stewardship of Exploration Capital, PAF and AFE approvals, as well as stewarding the Drilling Rig Schedule. In addition, the role is responsible for post audits of projects, and to develop strategic options for the Exploration group using statistical and probabilistic analysis.

The role is responsible for economic analysis on behalf of the Planning group, and also must be familiar with the overall methodology of risk and uncertainty analysis used by the exploration group and by the corporation. In addition, the role is responsible for reserve estimating, and for reservoir depletion modeling, and ensuring that appropriate reserve recovery and production rate estimations are consistent across the exploration teams.

The role requires initiative, and a high level of Business understanding. As there is significant communication with the exploration and appraisal teams, the role requires excellent communication and interpersonal skills.



The role reports to the Exploration Planning Manager, who gives daily work direction, and as well develops G&O's and completes Performance Management for the role.

ESSENTIAL DUTIES AND RESPONSIBILITIES include the following. Other duties may be assigned.

Provides key support for the Exploration and Appraisal teams in compiling the information and data needed for the Strategic Plan and the Annual Operating Plan (AOP). Must coordinate the efforts of the Exploration and Appraisal teams in submissions of plans, as well as the necessary documentation. Costs, schedules, resource estimates, and economic analysis must be understood and documented.

Performs economic analysis to assess opportunities and support annual efforts including preparation of Annual Operating Plan (AOP) and Strategic Plan.

Stewards the capital required by the Exploration and Appraisal Group. Must be familiar with variance analysis, as well as operational issues.

Reviews all PAFs within the Exploration and Appraisal group, ensuring Project Economic Guidelines are followed, and justification is included.

Manages the drilling schedule, and that key costing information is updated from the drilling schedule on a monthly basis.

Compiles and completes analysis of the Prospect Inventory. Ensures that the Exploration teams continue to update their Prospect Inventory. On a regular basis, combines the PI from the teams into single Inventory, and is able to complete analysis of this, and provide the information to executive management and GE Management in Calgary. Uses statistical analysis to consider the robustness of the Portfolio.

Organizes Semi-annual Prospect Inventory meetings, where all prospects are reviewed by the Exploration group. Ensures consistency of these meetings, and as well, ensure that learning from the meeting are distributed amongst the participants.

Key liaison to the GE Planning groups in Calgary, and provided necessary information in timely manner.

Provides post audits and look backs for capital projects, and provide analysis to determine if initial objectives are met.



Uses statistical analysis in this review of resources found.

#### SUPERVISORY RESPONSIBILITIES

No direct supervisory responsibilities. Mentors other Reservoir Engineers in the Exploration Group.

#### QUALIFICATIONS

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

#### EDUCATION and/or EXPERIENCE

Requires a Bachelor of Science degree in Engineering, with a minimum of 15 years of oil and gas industry experience. Must have a very high working knowledge of Microsoft Excel, Word, and PowerPoint, and be proficient with economic analysis software (such as Aries, Peep, Palantir Cash etc.). Must have knowledge of Exploration Probability and Risking. Must have significant experience with reserve calculations, as well as reservoir modeling, and production forecasts. Offshore field development planning and/or operations experience is also a plus, but not required. A candidate whose experience includes working for or with third-party reserves consultancies would be ideal.

#### LANGUAGE SKILLS

Ability to read and interpret documents such as safety rules, operating and maintenance instructions, and procedure manuals. Ability to write routine reports and correspondence. Ability to effectively present information in one-on-one and small group situations to management and other employees in the organization.

#### MATHEMATICAL SKILLS

Ability to work with mathematical concepts such as probability, statistical inference, and fundamentals of geometry. Ability to apply concepts such as fractions, percentages, ratios, and proportions to practical situations.



## REASONING ABILITY

Ability to define problems, collect data, establish facts, and draw valid conclusions. Ability to interpret an extensive variety of technical material in mathematical or diagram form and deal with several abstract and concrete variables.

## PHYSICAL DEMANDS

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is frequently required to sit. The employee is occasionally required to stand; walk; climb stairs; and use hands to finger, handle, or feel.

## WORK ENVIRONMENT

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

The noise level in the normal work environment is usually quiet to moderate (business office with computers and printers, light traffic).

## **Exploration Reservoir Engineer**

Exploration Reservoir Engineer desired with strong reservoir engineering background as part of multi-disciplinary team. Teams consist of reservoir engineer, geologist, geophysicist (EGG team) and requires interaction with drilling, land, appraisal and development groups.

ESSENTIAL DUTIES AND RESPONSIBILITIES include the following. Other duties may be assigned.



Provides technical expertise in support of subsurface risk discussions and decisions, estimation of resource potential using both deterministic and probabilistic methods, estimating production rates, prepare conceptual development plans, develop cost estimates, project timing, and perform sensitivity analysis as required.

Facilitates the prospect maturation cycle from concept through drilling and evaluation.

Provides engineering input such as bid analysis for lease sales, farm-ins, acquisition projects, commercial evaluations and equity determination.

Performs economic analysis to assess opportunities and support annual efforts including preparation of Annual Operating Plan (AOP) and Strategic Plan.

Participates in reservoir evaluation program and assists in the log analysis, fluid analysis, and core analysis efforts on exploration and appraisal projects.

Supports corporate planning and Global Exploration through preparation of PAF and Board approval documentation.

Supports a strong atmosphere of co-operation through team efforts and interaction with supporting groups and organizations.

Actively participates in and supports special projects, studies, mentoring, training and personal growth opportunities.

#### SUPERVISORY RESPONSIBILITIES

No direct supervisory responsibilities. May have opportunities to lead subsurface teams consisting of geologists, geophysicists, and other engineers on assigned projects.

#### QUALIFICATIONS

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.



## EDUCATION and/or EXPERIENCE

Requires a Bachelor of Science degree in Engineering, with a minimum of 10 years of oil and gas industry experience. Must have a working knowledge of Microsoft Excel, Word, and PowerPoint, and be proficient with economic analysis software (such as Aries, Peep, etc.). Knowledge of well performance software such as IPM, Perform or nodal analysis is required. Reservoir modeling experience is a plus, but not required. Offshore field development planning and/or operations experience is also a plus, but not required.

## LANGUAGE SKILLS

Ability to read and interpret documents such as safety rules, operating and maintenance instructions, and procedure manuals. Ability to write routine reports and correspondence. Ability to effectively present information in one-on-one and small group situations to management and other employees in the organization.

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Ability to work with mathematical concepts such as probability, statistical inference, and fundamentals of geometry. Ability to apply concepts such as fractions, percentages, ratios, and proportions to practical situations.

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## Area Field Engineer

The Area Field Engineer works closely with the Area Construction Manager providing engineering and technical assistance in all disciplines to assigned area within a module yard. Responsible for the day to day activities of the Field Engineers in assigned area. Attends various meetings including but not limited to safety, plan of the day, schedule, quality and materials. The Area Field Engineer is responsible for knowing the schedule, installation sequence, material status and quality of an assigned area. Provides technical and administrative direction to subordinate construction engineers and others, as assigned. The Area Field Engineer reports directly to the Project Field Engineer.

### Minimum Qualifications:

#### Basic Qualifications

- B.S. degree in an Engineering discipline, or other internationally recognized certification that the candidate has the required education, training, and experience to fulfill the functional duties as a Discipline Field Engineer in Piping, Civil Structural, Electrical or Mechanical.
- Master's Degree in either a discipline or an MBA.
- 5 years minimum field engineering experience in discipline.
- 3 years minimum field engineering experience as a lead in discipline.
- 1 year minimum field experience over other disciplines as an Area Field Engineer.
- Strong business communication skills
- Ability to review and direct work
- Experience in oil, gas, refinery, petrochemical, minerals processing or power generating station construction.

#### Attributes/Competencies

- Enthusiastic individual highly motivated to bring about change and lead a team of discipline engineers on a multi-billion dollar Oil and Gas Project.
- Able to rapidly comprehend technical procedures and policies and implement their adherence in a field construction environment.
- Able to communicate clearly and effectively in written and verbal format at all levels across a broad spectrum of





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functions in a construction organization.

- Be able to recognize assumptions and limitations within statistical data and make appropriate decision making.
- Able to employ decision making principles on a fast track project under schedule and Budget constraints.
- Possesses a Bachelor degree in an engineering discipline and a Master's degree in engineering or Business.
- Highly motivated to succeed and grow on a fast track career path.
- Must be willing to be mobile and live and work in various countries on project assignments typically 18-36 months on project. Based on location, family status may be an option, but won't always be an option.