



United States - Alaska - Anchorage
Fire & Gas Engineer

Role synopsis

The Fire and Gas (F&G) Engineering Team is part of the Discipline Engineering team (DET) within GOO Alaska Engineering Services. The Fire & Gas Engineer reports to the F&G Engineering Team Leader and is responsible for providing fire protection engineering discipline expertise and technical leadership to BPXA Operations. This includes providing fire protection engineering and design support oversight as well as providing technical support to the various North Slope production facilities with a primary focus on adherence to regulatory requirements and BP Standards. This will also include pre-appraise conceptual fire protection engineering, F&G discipline design support for small projects, technical review, risk assessment, and hazard mitigation.

The F&G Engineer proactively interacts with other disciplines, Equipment Class Owner (ECO), Area teams, sub-functions, and contractors to systematically resolve operational problems, applying informed engineering judgment to drive integrated, pragmatic solutions focused on risk management, production efficiency, defect elimination, and standardization. The F&G Engineer ensures that relevant engineering activities appropriately apply BP standards and processes such as Fit for Service and Capital Value Process, and ensures quality and consistent application of engineering processes and work flows.

Key accountabilities

- Provide specific technical and engineering input to the Statement of Requirements (SOR), Basis of Design (BOD), Project Execution Plan (PEP), Decision Support Package (DSP) and overall project execution.
- Ensure that technical design philosophies and strategies are aligned with SOR, BOD and ETPs. Provide timely input and review of engineering documents, process and Quality Assurance (QA) of contractor
- Implement input from the Field Operations team into the design to support the design freeze process.
- Use project baseline for look ahead planning with discipline counterparts and intervene as required.

- Approve technical content of requisitions and technical bid evaluation.
- Participate in regular risk management reviews to identify and / or modifying additional or existing risks.
- Provide input to capture lessons learned and enter them into the knowledge management / empirical databases / shared learning system after each stage.
- Maintain knowledge of codes, standards, and regulations relevant to discipline
- Oversee technical work by engineering contractors' firms for both quality and performance
- Work with multi-discipline engineering team to define project business case and scope of work.
- Identify project risks and mitigations

Essential Education

- Bachelor of Science in Engineering or Engineering Technology

Essential experience and job requirements

- Minimum of 5 years of experience within industry
- Working knowledge or familiarization with international building codes and standards (ICC), knowledge and understanding of fire and life safety codes including NFPA and other national industry standards
- Strong foundation and knowledge of principles, methods, and practices of modern fire prevention, fire protection engineering, fire suppression activities, and new technology including fire protection and detection systems
- Experience in executing project engineering from conceptual design to construction, Commissioning, Start-Up and Operation
- Experience applying risk based approach for the design of fire and gas system in hydrocarbon process facilities
- Ability to manage multiple projects/task
- Excellent self- motivation, strong organizational and prioritization skills with the ability to work independently
- Competency to create engineering documents as well as evaluate engineering designs
- Ability to interface with BP project teams and engineering contractor teams with focus on Inherently Safer Design
- Able to network with key corporate personnel with like responsibility.
- Fluent in the English language, with effective interpersonal, and strong verbal and written communication skills.
- Effective in working within a team setting with multiple demands and priorities.
- Demonstrated safety focus with a commitment to continuous improvement in Health, Safety, Security, and Environment (HSSE) performance.

Desirable criteria and qualifications

- A degree (BS or MS) in Fire Protection Engineering or Fire Protection Engineering Technology (ABET is the preferred, although not required, accreditation standard)

- Experience in the application of the OSHA Process Safety Management Rule (Title 29CFR1910) for established and operating fire protection systems
- Knowledge of internal BP engineering criteria, standards and technical practices.
- Experience with design and maintainability of fire alarm/detection systems including optical flame detection, gas detection, smoke detection, and thermal fire detection systems
- Experience with design and maintainability of special hazard suppression systems such as Halon, carbon dioxide systems, and other clean again systems
- Experience with design and maintainability of water based fire protection systems including wet, dry, deluge, pre-action, water mist systems, etc
- Experience working with aged/obsolete fire alarm systems
- Perform general fire protection and special hazard analysis
- Experience and knowledge of project engineering, including CVP, scheduling and budgeting.

Eligibility Requirements

If you are applying for a position in the United States, you must be at least 18 years of age, legally authorized to work in the United States; and not require sponsorship for employment visa status (e.g., TN, H1B status), now or in the future.

Other Requirements (eg Travel, Location)

- Short-term travel to Alaska North Slope as needed
- Able to occasionally climb stairs and ladders to extended heights

About BP

Our business is the exploration, production, refining, trading and distribution of energy. This is what we do, and we do it on a truly global scale. BP operates with business activities and customers in more than 80 countries across six continents. Every day, we serve millions of customers around the world. We are continually looking for talented, committed and ambitious people to help us shape the face of energy for the future.

BP's Upstream segment focuses on finding reserves of oil and gas, developing the means to extract and process it and then consistently producing and transporting it to market. This involves using cutting edge technology to find the energy reserves, the ability to drill thousands of meters under the ground, designing, building and operating some of the world's largest most complex production onshore / offshore facilities and finally being able to transport these fluids, in order to provide energy to the world.

BP is the largest operator (excluding National Oil Companies) in the world with over 6.6MM BOE/Day gross operated production and operations in 25 countries on six continents. The largest community in BP's Upstream Segment, around 6000 people work in operations, essentially delivering oil and gas from the wellhead to the market. Operations staff play a significant role at all stages of the exploration and production cycle - providing input to a project from early appraisal all the way through to full production.

Disclaimer

If you are selected for a position in the United States, your employment will be contingent upon submission to and successful completion of a post-offer/pre-placement drug test (and alcohol screening/medical examination if required by the role) as well as pre-placement verification of the information and qualifications provided during the selection process. The drug screen requires a hair test for which BP must be able to obtain a sufficient hair sample for analysis (~4 cm/1 ½" scalp, or > 2 cm/¾" body – arms & armpits/legs/chest)

As part of our dedication to the diversity of our workforce, BP is committed to Equal Employment Opportunity. Applicants will receive consideration for employment without regard for race, color, gender, religion, national origin, disability, veteran status, military status, age, marital status, sexual orientation, gender identity, genetic information or any other protected group status. We are also committed to providing reasonable accommodations for qualified individuals with disabilities and disabled veterans in our job application procedures. If you need assistance or an accommodation due to a disability, you may contact us or have one of your representatives contact us at BPUSAApplicationAssis@bp.com or by telephone at 281.366.1999.

Read the [Equal Employment Opportunity is the Law poster](#) and the [poster supplement](#) - for more information about Equal Employment Opportunities. ([Spanish version](#))

BP is an equal employment opportunity and affirmative action employer. View our [policy statement](#).

Relocation available

Yes - Domestic (In country) only

Travel required

Yes - up to 10%

Please respond to:

Dyanne Smith-Hicks
Recruiter, BP Alaska
dyanne.smith-hicks@bp.com
832-619-2773