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## Job details

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<b>Job title</b>	Material/Corrosion Engineer
<b>Req ID</b>	5803BR
<b>Job category</b>	Engineering
<b>Sub-category</b>	Welding/Materials/Corrosion Engineering
<b>Countries (State/Region)</b>	United States - Texas
<b>Location</b>	Houston
<b>Role synopsis</b>	<p>Within the Exploration and Production Technology (EPT) Operations and HSE organization, the Inherently Reliable Facilities (IRF) technology flagship program is focusing on the management of reliability and long-term integrity for the E&amp;P segment. The future delivery of this program will materially protect BP's privilege to operate, deliver substantial new non-proven reserves through the extension of facility life and the ability to handle aggressive fluids effectively and efficiently. This major business contribution will be achieved by ensuring the right technologies, data and information are available to the right people at the right time and place so that proactive, informed decisions can be made in the operating assets. IRF is committed to developing and applying R&amp;D technology to meet pressing business needs, and leveraging the expertise in the organization to ensure our upstream businesses attain their short-term and longer-term business goals.</p> <p>The Inherently Reliable Facilities technology flagship program is seeking an engineer, to lead and champion the IRF efforts on Corrosion Management. This IRF position, based in Houston, will be responsible for delivery of a major technology development program in this area, involving corrosion threat assessment, corrosion control and corrosion monitoring. It will also ensure that IRF efforts in developing and demonstrating these technologies are delivered to the E&amp;P business units in a sustainable way.</p> <p>The appointed engineer will be accountable for developing deep working relationships with the E&amp;P business units so that any technology developed is trialed, tested and deployed at scale. They will also have the opportunity and responsibility to directly impact development and implementation of corrosion management technology and engineering practice the upstream business. The position provides a significant opportunity to take a lead role in the corrosion and materials discipline and make a major contribution to BP's future performance in the E&amp;P segment</p>

- Key accountabilities**
- Development and delivery of the Corrosion management technology theme Strategy which will ensure a sustainable step change in the way BP manages corrosion in its business units. The role will have a particular focus on:
    - Effective usage of currently deployed technology and practice

o Developing new technology and approaches in the area of Corrosion / erosion threat assessment and its control

- Trialing and deploying at scale the technology / practice developed within the IRF program.
- Developing and sustaining close working relationships with function leadership, networks, and business unit engineers in support of delivering the segment technology program and specifically theme goals and deliverables.
- Setting short-term (annual) and long-term milestones and targets for personal objectives that result in theme projects delivery, and managing personal and theme expenditures within the IRF plan. Assisting to develop the right balance of short and long wave length activities and a refreshed hopper of new project opportunities.
- Assisting in the preparation of material for program and theme reviews, annual reporting, tracking and publishing technology delivery success, progress reports, etc.

- Providing in-depth technical support and solutions to operating assets. Technical support would involve corrosion prediction and mitigation/control, failure analysis, mechanical and integrity assessment and assurance management. This includes corrosion modeling, materials selection, cathodic protection, chemical treatment and monitoring
- Interface with other members of maintenance and integrity management (IM) team (process safety, inspection/integrity engineers and production chemists.)
- Identify and evaluate new technologies and champion innovation that can assist in meeting BU's IM objectives.
- The role demands a comprehensive working knowledge of IM and expertise/knowledge of corrosion engineering.
- Support and/or lead Research and Development (R&D) objectives in corrosion area
- Participate in a variety of Integrity Management (IM) related reviews
- Ensuring the transfer of best practice and operational experience in the area of corrosion and materials engineering between operational support teams, engineering contractors and IM contractors

**Essential  
criteria &  
qualifications**

- Minimum of a Bachelor's Degree in Chemical, Mechanical, Metallurgical Engineering, or another field related to corrosion
- Corrosion management experience in a direct operational and support role
- Experience in the oil and gas industry in a corrosion or metallurgy role
- Knowledge of corrosion prediction and analysis, corrosion mitigation, material selection, chemical treatment, and mechanical integrity assessment
- The position requires extensive teamwork and networking skills both within BP and outside the company and a wide network of external technical contacts and sources to assist in problem resolution
- Application of gas/fluid stream chemistry expertise to solving corrosion issues in process equipment
- Knowledge of degradation mechanisms in the oil/gas industry and demonstrated use of corrosion management (inspection and monitoring techniques) to solve issues
- Understanding and use of oil/gas Integrity Management (IM) industry codes
- Demonstrated ability to effectively analyze data and present recommendations to peers and management
- Ability to both initiate and progress multiple tasks with minimal supervision
- Ability to work effectively across technology functions and within multi-disciplinary teams
- Excellent communication, interpersonal and influencing skills

**Desirable  
criteria &  
qualifications**

- Experience in the development of corrosion risk assessments is desirable.
- Work experience in the Upstream part of oil/gas business
- Use of production chemistry to mitigate corrosion
- Development and application of innovative solutions to solve IM issues

	- Professional Engineering license
<b>Relocation available</b>	Negotiable
<b>Travel required</b>	Yes - up to 50%
<b>Is this a part time position?</b>	No
<b>Application close date</b>	31-Jul-2009
<b>Application close time</b>	23:59 (GMT-05:00) Eastern Time (US & Canada)
<b>About BP</b>	<p>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. With a workforce of nearly 100,000 employees, BP operates with business activities and customers in more than 100 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.</p> <p>BP's Exploration and Production 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.</p> <p>With over 86 major global projects (across 26 countries) under development and an annual capital spend of approx. 6 billion USD / year, BP Exploration and Production has one of the largest development portfolios in the Oil and Gas industry. As a Project and Engineering professional within BP, you'll be exposed to an amazing breadth of opportunity and experience within a dynamic environment in which people can develop and grow. Whether it be using the latest subsea technology to access oil from the deepest oceans, building some of the worlds biggest production facilities or designing pipelines that cross several countries, we have some of the largest projects and most complex engineering challenges in the world.</p>
<b>Disclaimer</b>	<p>If you are selected for the position, your employment will be contingent upon submission to and successful completion of a post-offer/pre-placement drug and alcohol screening as well as pre-placement verification of the information and qualifications provided during the selection process.</p>

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