

JOB DESCRIPTION

Mechanical Reliability Engineer

A. Purpose of the job: describe in 1 phrase what contribution the job is expected to make to the organisation's objectives

The Mechanical Reliability Engineer will be a member of the Manufacturing Team at Vero Beach under the Plant Services Manager. This individual will provide the expertise and technical support to maintain and improve the reliability of systems in the plant including the data gathering, failure analysis, troubleshooting, and development of predictive/preventative maintenance programs for equipment. The individual will assist in reviewing any equipment replacements in the future. The Reliability Engineer works closely with Maintenance and Process Supervisors to maintain performance of the equipment. This is critical to plant safety and operations reliability. This individual will be a backup to the Maintenance Supervisor for directing in-field supervision of plant mechanics and contractors.

B. Accountabilities of the job: describe the main results expected from the job

- Establishes and maintains planned and predictive maintenance programs for equipment and sets parameters for amount and type of maintenance performed within the programs.
- Develops Equipment Criticality Index for site assets
- Maintains records on equipment histories and costs, coordinates with operations and maintenance supervisors for needed changes toward increasing reliability.
- Analyzes records, troubleshoots equipment problems, and makes procedure recommendations to operations and maintenance.
- Works with the Maintenance Supervisor to help manage the maintenance and project teams during plant outages.
- Analyzes work orders for equipment. Prepares cost and schedule estimates, makes recommendations as to the methodology, equipment, and material requirements.
- Diagnoses root cause and specifies method of repair for plant equipment.
- Documents projects and technical work by setting up necessary files and preparing appropriate records and reports.
- Coordinates the creation of the spare parts list and lubrication list for the entire plant in conjunction with Vendor recommendations and industry standards.
- Maintains liaison with outside contractors, suppliers, and representatives of other companies on matters of mutual interest involving rotating equipment and general maintenance as well as compliance with standards, specifications and regulations.
- Assists in the selection, testing, training and development of in-house technicians for repair and diagnosis.
- Participates in recommending and requisitioning equipment, tools, materials and spare parts.
- Leads projects as assigned by Plant Services Manager for projects up to \$1M.
- Works with Maintenance Supervisor to manage rotating equipment's PM schedule
- Assist Maintenance Supervisor in prioritizing, planning, scheduling and executing maintenance activities.

- Participates in cross-functional teams to optimize plant designs for HSSE, cost effectiveness, reliability, operability and maintainability.
- Participates in Process Hazard Analysis studies (PHA) involving Project Team, Contractors, Technology and local Site teams
- Provides mechanical engineering input to HAZOP study
- Owner of all Maintenance related documents throughout the project lifetime.
- Helps develop the Project MOC procedure.
- To support the commissioning activities.
- To provide ongoing mechanical engineering support for HSSE, reliability, equipment performance, plant optimization and cost performance at the Vero Beach facility once operational.
- Meets HSSE objectives and comply with all relevant laws and policies for Maintenance.
- Stays up to date with industry standards in order to maintain, and adhere to engineering practices and guidelines required to achieve compliance with governmental laws and policies and industry best practices
- Provide mechanical engineering support to the Vero Beach demonstration plant operations team for normal operations, quality assurance and plant modifications.
- Work with Operations and BIO Technical groups to develop appropriate computer control models, interfaces, key performance indicators and data acquisition profiles
- Deliver demonstration plant improvement projects, including management of local engineering contractors, as directed by Site management and the business.

C. Specific differentiating criteria

The detailed engineering design is being progressed by AMEC in Greenville, SC and the post holder may have to travel from time to time to Greenville until the end of October 2011. The position will be permanently located in Vero Beach.

D. Required profile:

Level of education & Experience in general

The successful candidate should have a minimum of a BS degree in Mechanical Engineering and at least 5 years of related experience in a mechanical reliability and maintenance area. Experience with the Operations of biofuels or petro-chemical plants, or similar equipment and operations, is preferred.

The preferred candidate will have held similar positions that interfaced with staff engineers, engineering contractors, craftsmen, operators, Management, vendor engineers, and sales representatives.

Technical skills

- Experience of mechanical engineering design/development for major petrochemical projects or experience of working on an operating unit.
- Experienced mechanical or maintenance engineer.
- Detailed knowledge of design Codes and industry standards as applied to petrochemical facilities, Process Safety Management (PSM), Management of Change process, and Capital Value Process (CVP).
- Knowledge of industry equipment reliability and data acquisition and analysis systems
- Project engineering and/or experience leading projects is a plus

- Experience with Computer Maintenance Management Systems(CMMS) to control spare parts inventory and schedule work orders

Behavioral skills

- Strong safety and environmental performance
- Strong ability to work with others.
- Strong communication and networking skills.
- An ability to manage work priorities to deliver real performance improvements in a busy and demanding work environment.
- Strong knowledge of safety and the pro-active application of new techniques to improve safety performance.
- Strong bias for action to identify potential problems and co-ordinate their resolution before they become an issue. Continual enthusiasm and a desire to assist the team to improve performance.
- Strong written, verbal, and interpersonal skills are essential to perform this role.
- Ability to travel to various engineering contractors' offices and project sites

How to Apply

Please submit your resume to biocareers@ineos.com and mention the job you are applying for in subject line.