RELIABILITY ENGINEER

Posting ID: EM19311583

Company: Saint Gobain

Position Type: Full-Time

College Major(s): Mechanical Engineering (ME)

Company Website: https://joinus.saint-gobain.com/en

Work Location: Las Vegas

Salary: DOE

College Level(s): Graduate Student, Alumni

OVERVIEW

Through the responsible development of innovative and sustainable building products, CertainTeed, headquartered in Malvern, Pennsylvania, has helped shape the building products industry for more than 110 years. Founded in 1904 as General Roofing Manufacturing Company, the firm's slogan "Quality Made Certain, Satisfaction Guaranteed," inspired the name CertainTeed. Today, CertainTeed is a leading North American brand of exterior and interior building products, including roofing, siding, fence, decking, railing, trim, insulation, drywall and ceilings.

A subsidiary of Saint-Gobain, one of the world’s largest and oldest building products companies, CertainTeed has more than 6,300 employees and more than 60 manufacturing facilities throughout the United States and Canada.

Roles and Responsibilities

The Reliability Engineer will be responsible for investigating and problem solving plant reliability issues utilizing World Class Manufacturing (WCM) techniques and principles. This position will support maintenance teams in the rationalization, planning and scheduling of maintenance activities to drive improved sustainable plant reliability in a manner consistent with CertainTeed Gypsum’s Vision, Mission, Values and Objectives (VMVO). The Reliability Engineer will also provide leadership in the implementation and support of plant process modifications.

ESSENTIAL DUTIES
• Provides an accident free worksite while maintaining status as the preferred supplier of quality products and services with a goal of world class yield, availability and reliability.
• Responsibilities include designing and developing new process systems, revising / maintaining existing processes; developing and implementing WCM projects, managing and guiding contractors, consultants and suppliers; identifying new opportunities and solutions with cost/benefit analysis and making recommendations to improve efficiencies.
• Provides input into planning and scheduling of projects and preparing capital expenditures.
• Responsible for planning, evaluating, organizing, and implementing assigned installation, maintenance and repair activities and coordinating with other departments to assure minimum downtime for production and maximum safety of employees.
• Performs root cause analysis as well as implements sustainable countermeasures on losses related to maintenance.
• Uses basic Focused Improvement (FI) tools to solve special cause maintenance issue.
• Ensures Professional Maintenance (PM) is accomplished in a timely manner and are to a high standard of quality.
• Work with Maintenance Manager/Supervisor to develop PM’s that drive improved reliability.
• Interacts with managers and supervisors at plant and corporate personnel to secure appropriate resources to plan and implement projects.
• Works closely with Production and Engineering Managers to coordinate any proposed changes using the change management system.
• Support Total Productive Maintenance (TPM) teams in the development of equipment ledgers and problem solving.
• Develops and maintains standard operating and maintenance procedures, and work instructions.
• Maintains records of plant and individual equipment performance.
• Ensures full documentation of all projects and systems to WCM / Early Equipment Management (EEM) standards.
• Prepares and maintains data sheets, wiring and Process & Instrumentation Diagrams (P&ID) and flow charts required for the proper and efficient operation of plant equipment.
• Implement and support the Computerized Maintenance Management Systems (CMMS).
• Supports Autonomous Maintenance through training of operators and ensuring that equipment basic conditions are maintained. Provides training for operators and maintenance personnel.
• Analyzes / stratifies accurate data and information from records to prepare reports, statistics, etc. in support of continuous improvement of reliability.
• Continuously evaluates workplace for safety concerns and ensures behavioral safety initiatives are performed to goal levels.
• Assures good housekeeping practices following 5S systems, enforces plant rules and safety regulations, and supports VMVO and WCM initiatives.

OTHER DUTIES AND RESPONSIBILITIES
• Research, purchase, inventory, logistics and maintenance of spare parts stores area.
• Development of detailed maintenance tasks.
• Maintains various department records, files, reports and equipment ledgers.
• Performs other related duties and responsibilities as needed and / or requested by management.

FISCAL RESPONSIBILITY
• Responsible for managing equipment and labor costs within the department’s budget.
• Assists in maintaining set parameters and makes recommendations for budgetary expenditures.

WORKING CONDITIONS
• Works in a manufacturing plant environment with limited HVAC, concrete floors, and exposure to industrial noise, dust, chemicals and temperature changes.
• Normal plant operation is 24 hours, 5 - 7 days a week and work hours may vary depending on business needs.
• May require long hours, and weekend and holiday work.
• May require travel by air and rental cars.

PHYSICAL DEMANDS
•Must be able to spend a significant amount of time on plant floor. Job includes tasks that require walking, bending, twisting, gripping, stair and ladder climbing, entering confined spaces, navigating rough terrain and occasional lifting of up to 75 lbs. Job may require long periods of sitting, walking, standing, working on a computer or engaging in telephone conversation. Must be capable of wearing personal protective equipment necessary to comply with government and company safety standards whenever engineered methods of reducing hazards or physical requirements cannot be reasonably accommodated.

The above declarations are not intended to be all-inclusive of this position’s duties, responsibilities and requirements to do this job. They are intended only to describe its general nature.

**Education and Qualifications**

• Bachelor’s Degree in mechanical engineering or similar discipline or equivalent experience.
• Three to five (3-5) years of applied professional experience in a manufacturing environment.
• Experience with the sciences of heat transfer and flow of solids, liquids and powder.
• Experience with P&ID, Equipment Layout Drawings, grinding, conveying, mixing, forming, design optimization & troubleshooting.
• Knowledge of WCM, EEM, Kaizens, Lean, TPM, Root Cause, PFMEA & DFMEA toolsets.
• Excellent problem solving capabilities and the ability to work independently on assigned tasks.
• Flexible and open-minded with good written and oral communication.
• Proficient in Microsoft Office Suite and MS Project.

**PREFERRED OR DESIRED QUALIFICATIONS**

• Ability to understand operating principles of our major process equipment (detail level, grade dependent).
• Project cost estimating, competitive bidding, critical path scheduling, resource funding, and capital funding.
• Application of combustion analysis, mass & energy balance, machine & fluid dynamics.
• Minor structural, building design improvements.
• PM technologies (vibration analysis, infrared thermography, oil analysis, ultrasonic) and AutoCAD LT

**How to Apply**