

JOB DESCRIPTION

Project Engineer

Summary

This position develops designs, optimizes, and problem solves manufacturing processes in a manner that meets safety, environmental, quality, and operational performance expectations. The Project Engineer's role provides support and creativity in design, development, optimization and problem-solving supporting sugar and byproducts manufacturing, product storage, shipping operations, product packaging, facilities improvements, and waste treatment. The Project Engineer has expertise across multiple technologies and has the demonstrated ability to effectively provide specific engineering direction to a broad range of team members and stakeholders. The Project Engineer reports to the Director of Engineering.

Principal Working Relationships

- Engineering, Operations, Agriculture, Finance, Safety, Quality and Environmental Leadership, project sponsors and project stakeholders
- Outside entities including Minn-Dak cooperative members, national, state, county and city jurisdictional agencies, insurance carriers, marketing partners and neighboring industries and residents

Essential Job Duties

- Mechanical and process design with emphasis on project management from concept, scope and budget development, justification, appropriation request, vendor and contractor selection and management, coordination with departments, safety compliance, financial monitoring, installation, start-up, commissioning, and project closure
- Lead single or multiple infrastructure or process improvement projects with a financial scope of up to \$2 million from conception through commissioning
- Lead infrastructure or process improvement projects with a financial scope over \$2 million under the direction of the Senior Engineer
- Provide engineering and project management in the initiation of design, development, and optimization of equipment and processes to meet asset objectives
- Develop knowledge and skills in leadership of the application of engineering principles, scientific analysis, and project management
- Provide for the safety and well-being of plant operators, maintenance technicians, and other personnel impacted by engineering or project activities
- Manage job sites to ensure activities are performed in a safe efficient manner
- Develop equipment and processes that meet safety, food safety and environmental codes, policies and guidelines
- Identify complex technical issues and provide necessary solutions to determine root cause
- Assist operational areas with engineering, maintenance, and process development needs
- Other duties as required by the business
- Adhere to all company policies and all safety, food safety, feed safety, and sanitation rules and programs

Qualifications

- A minimum of a bachelor's degree in Mechanical Engineering degree from an accredited college or university or equivalent
- 1 to 3 years experience in an engineering role involving machinery, process design or manufacturing
- Experience working with technicians, vendors, contractors, and technical services
- A strong understanding of safe work principles
- Is self-motivated and self-directed requiring minimal daily supervision
- A sense of urgency and the determination to make the right decisions with effective follow through
- Background using engineering analysis tools, Autodesk applications or other design software
- Organized with excellent time management skills
- Ability to communicate effectively with employees at all levels

Preferred Qualifications

- Experience in sugar manufacturing
- Experience with bulk and consumer packaging
- Project management experience implementing projects up to \$2 million
- Experience in a heavy industrial, commodity or chemical manufacturing environment
- Boiler and pressure vessel experience
- Experience with air compressors, blowers, pumps and material handling equipment
- High pressure piping design experience

- Knowledge of ASME, National Board, OSHA, ANSI, and IBC safety and building codes.
- Experience in maintenance or operations
- A solid understanding of GMP and food safety standards
- Evidence of continuing self-development

Alternative Qualifications

- Experience in construction or contracting trades
- Mechanical, pump or heavy equipment maintenance
- Professional welding or machine shop experience
- Oil, gas, or mining industry experience
- Pulp and paper experience

Acknowledgement

I have reviewed this job description and am able to perform all duties required.

Print Name

Signature

Date