

PROCESS ENGINEER

Process engineers study the production and manufacturing of a product to look at factors like efficiency, quality and safety. These engineers may also help measure sustainability and profitability.

WHAT RESPONSIBILITIES WILL I HAVE?

- Provide day-to-day observance and support of manufacturing operations
- Oversee and enforce safety, quality, efficiency, and cost reduction throughout the business
- Conduct audits of safety protocol to ensure workers are safe
- Take overall responsibility for the safe design and safe operation of the equipment within the area
- Assist regulatory agencies during audits and assessments of facilities and techniques
- Provide engineering expertise to leadership
- Provide technical ownership of equipment and processes
- Monitor systems to verify and optimize performance
- Lead troubleshooting efforts to resolve process and operational problems
- Find ways to implement customer process requests
- Evaluate business functions for impact on qualified state of equipment/processes and utilize appropriate tools/processes as necessary (change control, hold, etc.)
- Responsible for system/component classification and maintenance strategy for equipment
- Find improvement opportunities (procedural changes, upgrades, projects, etc.) associated with processes you oversee
- Compare system performance statistics with other operations to determine areas of opportunity for collaboration and improvement
- Conduct economic analysis of improvement projects



WHAT EDUCATION & TRAINING IS REQUIRED?

Bachelor's degree in chemical engineering, manufacturing or industrial engineering

THE FOLLOWING HIGH SCHOOL COURSES ARE RECOMMENDED...

Agricultural education, mathematics, physics, computer courses

TYPICAL EMPLOYERS

Food processing plants and farm equipment plants

FUTURE JOB MARKET/OUTLOOK



SUGGESTED PROFESSIONAL ORGANIZATIONS & ASSOCIATIONS

- National Society of Professional Engineers
- Association for Process Safety Research
- Institute of Food Technologists

AVERAGE ANNUAL FULL-TIME SALARY

\$77,000