

STEM Manufacturing Internship

Work. Learn. Earn.

Continuous Improvement Engineering Intern

BACKGROUND: The NWIRC is a not-for-profit management consultancy of the U.S. Department of Commerce and the Pennsylvania Department of Community and Economic Development that assists in the health and vitality of manufacturing businesses in Northwest Pennsylvania. Our client, Maple Donuts of Lake City, PA, operates seven (7) independent production lines to manufacture a variety of packaged and frozen baked goods; Maple Donuts is one of the largest independent producers of donuts on the East Coast. Maple Donuts historic growth can be attributed to an emphasis placed on maintaining high standards of product quality, excellent customer relationships, superior job performance, and the unwillingness to compromise these standards. The continued growth and further enhancement of the company's fine reputation depends on each employee's desire to maintain and improve the set standards. Maple Donuts seeks a student intern, highly proficient in Lean tools and techniques, to be a part of our team's effort to improve operational capabilities and efficiencies. (See below for Maple Donut's history)

OBJECTIVES: The qualified engineering intern will assess current state production processes of one production line at a time to identify opportunities for process improvement and cost reduction. Specifically, the qualified candidate will:

1. Seek to identify and reduce waste – identify types and sources of waste, quantify the waste by type/source, develop waste reduction proposals and test accepted proposals quantifying results.
2. Process/product change overs (front end and packaging) – document current process set up and time associated with product/equipment changes, identify areas of opportunity to reduce change over time and test accepted proposals quantifying results.
3. Labor utilization – review labor effectiveness in packaging areas through observation/time motion study and work flow/material set up analysis – develop recommendations for staffing or set up changes to improve labor utilization and/or ergonomic issues through improved material set up or product handling – test accepted proposals quantifying results.

REQUIREMENTS: Candidates are required to be currently enrolled in an accredited college or university and shall be pursuing a four-year or advanced degree in Industrial, Manufacturing or Mechanical Engineering, or similar technical field; be highly proficient in Lean tools and techniques; and able to work at the Lake City facility approximately forty (40) hours per week during the summer break. Minimum required cumulative GPA of 3.5 on a 4.0 scale.

Additionally, the ideal candidate shall have completed coursework in time study and work-flow analysis, have excellent communication skills with the ability to interact with line workers to understand the manufacturing process, have a willingness to work directly on the shop floor

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with a strong desire to work with people in a team-based environment, possess a strong analytical mind and scientific approach, and be a responsible, mature, team-oriented individual with great attention to detail and a willingness to learn.

TIMEFRAME: May 2019 through approximately August 2019. Work hours are flexible.

PAYRATE: Minimum \$15.00 per hour depending upon experience, knowledge and skills.

CONTACT: Qualified candidates are required to apply online at www.nwirc.org/internship. Please direct all inquiries about this continuous improvement internship opportunity to Michael Griffith via email at mgriffith@nwirc.org.

COMPANY HISTORY: High quality donuts with the emphasis on guaranteed freshness was and is the philosophy Charles F. Burnside has used ever since he purchased donuts from his father for \$.20/bag and sold them from his bicycle basket for \$.30/bag. In 1946, Maple Donuts started on Maple Street in York, Pennsylvania. The name Maple Donuts evolved over the years as Charlie opened additional stores throughout the city limits. What started as Charlie making the donuts and his wife, Sue, selling them at the store, expanded to sales outside of York City as Charlie realized what a superior product he had developed. The next step was wrapping the donuts and selling them through vending companies.

On January 1, 1969, Charlie purchased Maple Donuts from his father and became incorporated. Strong sales growth and expansion into new products as well as new markets has been the trend ever since. Sales through different distribution channels takes Maple Donuts Inc. beyond the Mid-Atlantic states, making the company one of the largest independent producers of donuts on the East Coast. Our varied customer base includes: grocery chains, in-store bakeries, vending companies, caterers, schools, dairies, and several types of institutions, with private label as our specialty.

In September 2002, Maple Donuts Inc. acquired the assets of a competitor in Lake City, Pennsylvania. This acquisition more than doubled the capacity of the company as well as added the immediate potential to sell new products such as frozen pie shells. Our Lake City facility, Maple Donuts Erie, LLC, complements and supports the company objective of realizing incremental sales of frozen items, which the new facility is designed to produce.