



LMI

ADVANCED MANUFACTURING

Advanced Manufacturing is the use of innovative technology to improve products or processes. This includes products identified as having high level design, being technologically complex, or characterized as innovative.

SKILLS



Mechanical

Arm Steadiness

Reaction Time



Operation Monitoring

Design

Attention To Detail



Critical Thinking

Operation and Control

Mathematics

Quality Control Analysis

Computers and Electronics

Engineering and Technology



Active Listening

Hearing Sensitivity



Over the next decade, Manufacturing overall is expected to increase about **14%**

Fabricators, Machinists, and Industrial Engineers are a few of the skilled occupations that anticipate adding **100+** positions by **2025**

Source: Deloitte Analysis based on data from U.S. Bureau of Labor Statistics and Gallup Survey

TRAINING

Enhanced Operator

Gateway Community and Technical College

Certificate Program

16 Weeks

Computerized Manufacturing & Machining

Gateway Community and Technical College

GOTS Degree

4 Semesters

Manufacturing/Engineering Technologies

Gateway Community and Technical College

Certificate Program

16 Weeks

Fundamentals of Advanced Manufacturing and Mechatronics

Gateway Community and Technical College

Certificate Program

2 Semesters

Welding Technology

Gateway Community and Technical College

Associates Degree

67 Credit Hours

Machine Operator

Cincinnati State Community College

Certificate Program

10 Hours

Mechanical Engineering Technologies Manufacturing CNC

Cincinnati State Community College

Certificate Program

20 Hours

Mechanical Engineering Technology-Manufacturing

Cincinnati State Community College

Certificate Program

20 Hours

Six Sigma Yellow Belt

Xaiver University

Certificate Program

1 Day

Six Sigma Green Belt

Xaiver University

Certificate Program

3 Days

Six Sigma Black Belt

Xaiver University

Certificate Program

5 Days

Industrial Maintenance Technology


Jefferson Community and Technical College

Associates Degree

68 Credit Hours

Skills Learned

- Computer Technologies
- High Performance Computing
- Rapid Prototyping
- High Precision Technologies
- Information Technologies
- Advanced Robotics and Other Intelligent Systems
- Automation
- Control Systems to Monitor Processes
- Sustainable, Green Processes and Technologies
- Ability to Custom Manufacture
- High rate of Manufacturing

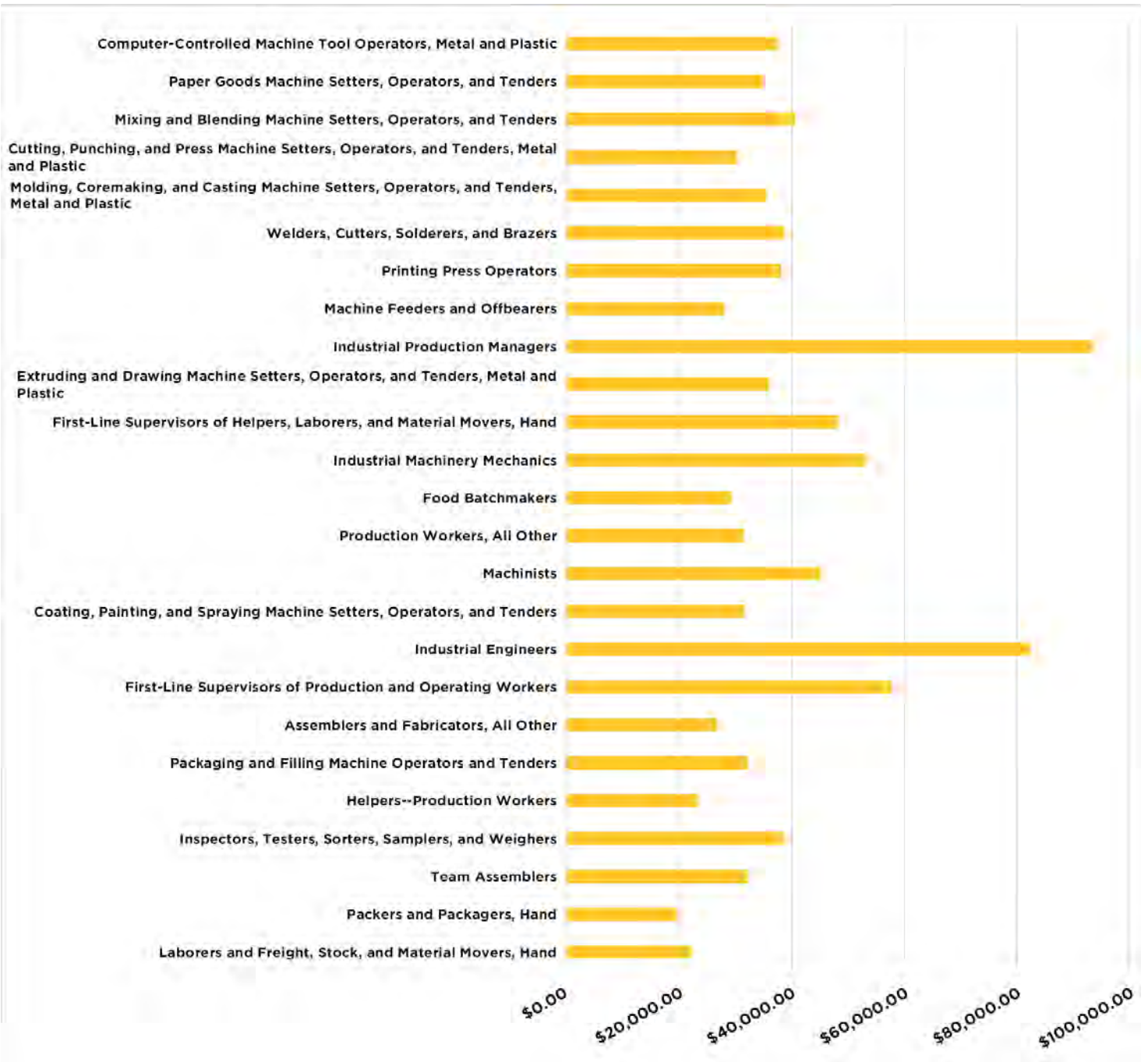
A photograph of a car body on an assembly line. The car is positioned on a conveyor belt, and a bright, intense light from a welding process is visible, creating a large spray of orange and yellow sparks that radiate outwards. The background shows the industrial setting of a factory with various mechanical components and structures.

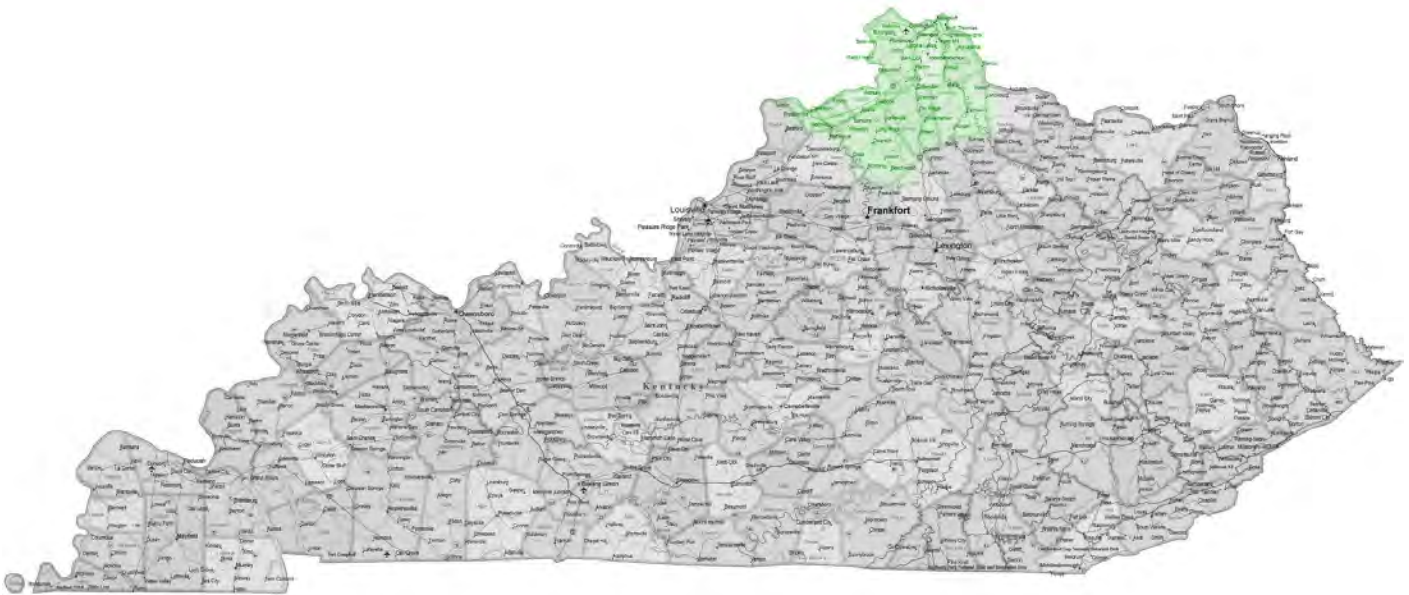
In 2014, there were just over 28,000 positions in 80 different occupations throughout northern Kentucky making up the Manufacturing industry. Some of those occupations with the most positions included "Team Assemblers", "Inspectors, Sorters, Samplers and Weighers", and "Production Workers"

In just one year, those same 80 occupations added 2,000 additional positions.

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Median Wages





- The 80 employees of **Hahn Automation** work hard at their 6000 square meter facility to provide turnkey process automation solutions for their customers.
- **Nucor Steel** operates along the Ohio River in **Ghent, KY**, where 417 employees boast of producing steel of the very highest quality.
- **Dow Corning** produces over 7,000 different products nationally, but the main focus of manufacturing on the 1600 acres at the **Carrollton** site is Silicone.
- **Owen Electric** and 130 employees working for them are manufacturing electric power. Their work is keeping the lights on.
- Sweet Tooth? **Perfetti Van Melle** in **Erlanger, KY** with 240 employees is making kids happy everywhere with assorted varieties of Airheads candy.
- In **Grant County, DANA Corporation** has 500 employees working to build a variety of industrial strength hinges.
- Hungry? **Tyson-Hillshire Brands**, in **Alexandria, KY** has 600 employees keeping the region stocked with sausage, hot dogs, and lunch meat.
- **Falmouth, KY** is home to **Life Fitness Hammer Strength**, it is there that 120 employees keep America in shape by producing several lines of workout and exercise equipment.

OTHER NKY COMPANIES

Abrapower Inc.
Florence, KY

Best Sanitizers Inc.
Walton, KY

Celanese
Florence, KY

Durobag/Novalex Brand
Florence, KY

ESCO Corporation
Covington, KY

Fives Cincinnati
Hebron, KY

Fuji Autotach
Walton, KY

Gate Corporation
Hebron, KY

Johnson Controls
Florence, KY

L'Oreal USA
Florence, KY

Messier-Bugatto USA
Walton, KY

National Band & Tag
Newport, KY

Schwan's
Florence, KY