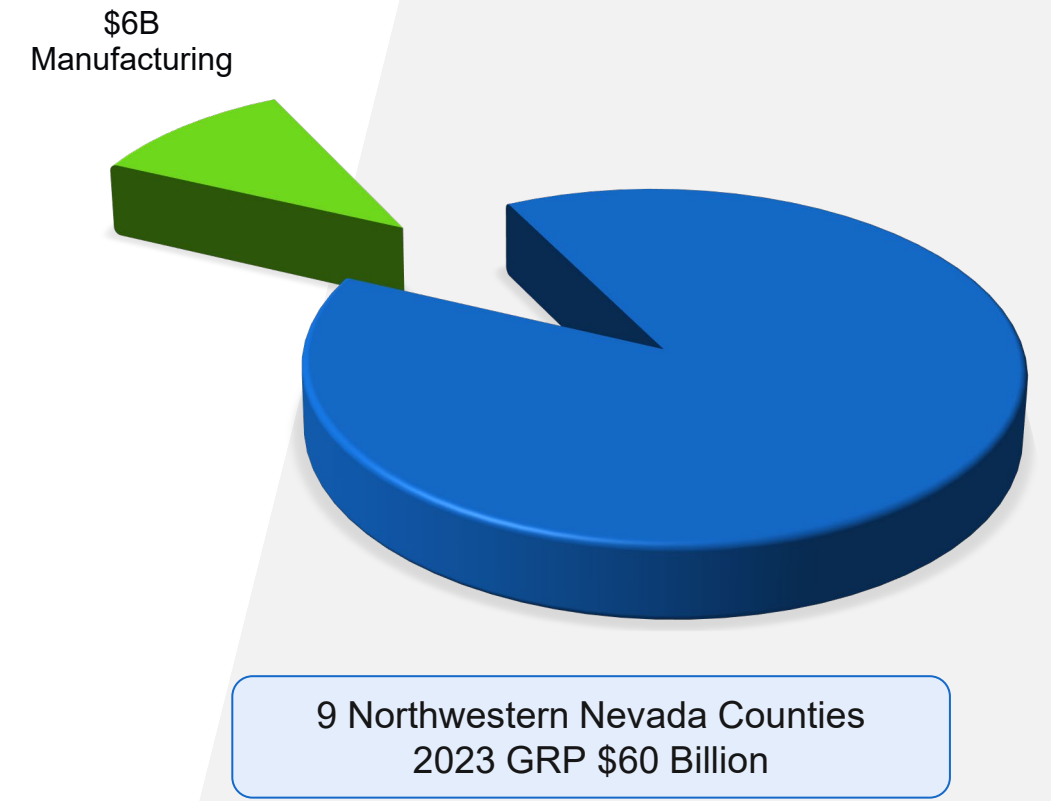
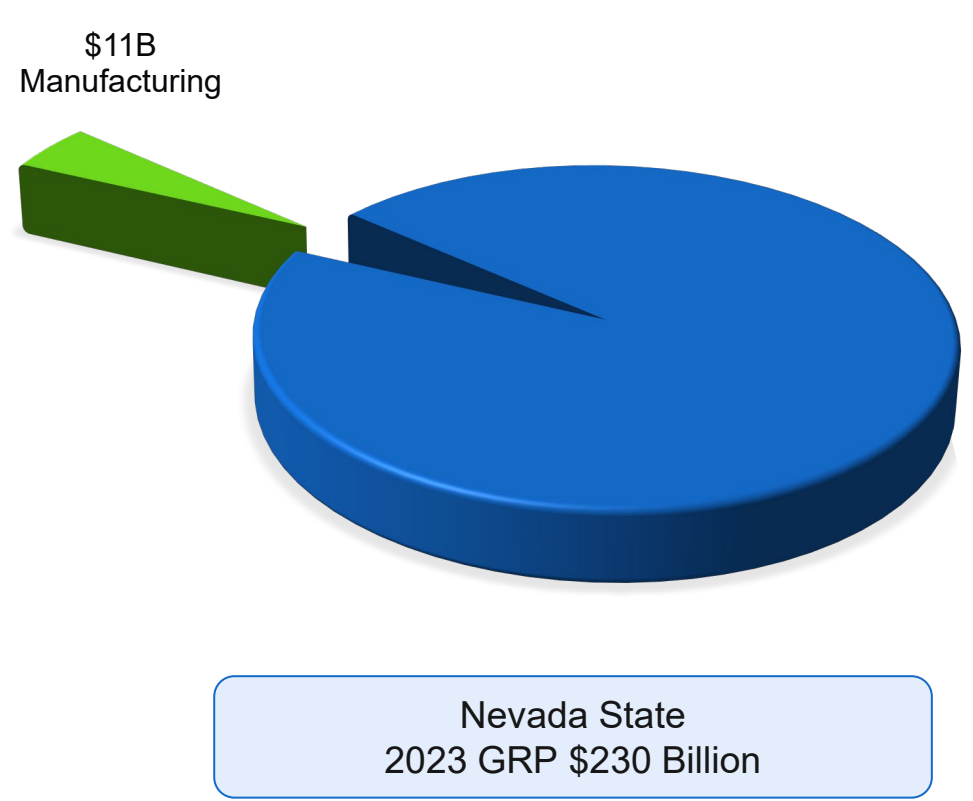


# Advanced Manufacturing Industry Profile

## Northwestern Nevada 2024

Counties: Carson City, Churchill County, Douglas County, Humboldt County, Lyon County, Mineral County, Pershing County, Storey County, Washoe County

# 2023 Gross Regional Product



Data: Source: Lightcast. 2024 Source: Lightcast <https://analyst.lightcast.io>  
2024. Products: Source: Lightcast Analyst 2024.  
Occupations displayed by 2-digit NAICS codes

# Top Demand for Advanced Manufacturing Occupations

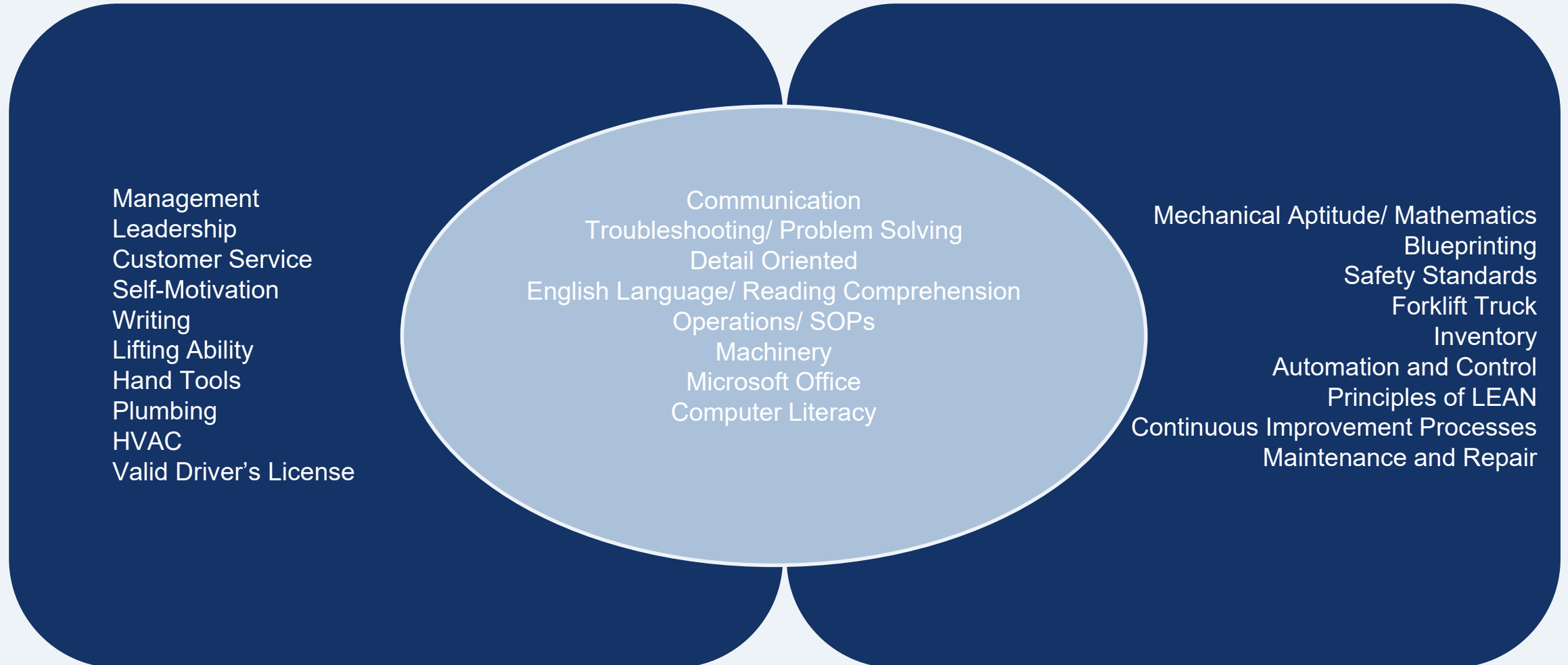
| Occupation   | 2023 Jobs | 2023 Hires | Avg. Annual Openings | Median Hourly Earnings | Typical Entry Level Education     |
|--|-----------|------------|----------------------|------------------------|-----------------------------------|
| Miscellaneous Assemblers and Fabricators   | 6,861     | 7,211      | 817                  | \$19.63                | High school diploma or equivalent |
| Maintenance and Repair Workers, General  | 4,412     | 2,602      | 466                  | \$23.06                | High school diploma or equivalent |
| Production Workers, All Other  | 1,772     | 2,384      | 221                  | \$19.02                | High school diploma or equivalent |
| Heating, Air Conditioning, and Refrigeration Mechanics and Installers                                | 1,150     | 722        | 126                  | \$27.53                | Postsecondary nondegree award     |
| Packaging and Filling Machine Operators and Tenders  | 775       | 708        | 106                  | \$19.59                | High school diploma or equivalent |
| Sewing Machine Operators   | 747       | 585        | 85                   | \$18.89                | No formal educational credential  |
| Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers | 746       | 788        | 212                  | \$17.53                | High school diploma or equivalent |
| Electrical and Electronic Engineering Technologists and Technicians                                  | 721       | 340        | 94                   | \$24.17                | Associate's degree                |
| Industrial Engineers   | 668       | 301        | 78                   | \$55.17                | Bachelor's degree                 |
| Buyers and Purchasing Agents   | 645       | 350        | 75                   | \$32.33                | Bachelor's degree                 |
| Machinists   | 581       | 337        | 86                   | \$23.67                | High school diploma or equivalent |
| Helpers--Production Workers  | 528       | 739        | 94                   | \$22.39                | High school diploma or equivalent |
| Mechanical Engineers   | 471       | 210        | 51                   | \$40.74                | Bachelor's degree                 |
| Electrical Engineers   | 422       | 138        | 47                   | \$47.26                | Bachelor's degree                 |
| Architectural and Engineering Managers   | 375       | 126        | 40                   | \$78.20                | Bachelor's degree                 |

# Fastest Growing Occupations 2024-2029 Projected



## Lightcast Job Posting Analytics

## Employer Input



# Sector Strategy Committee Priorities

Digital Technology

- (1) Overlay CompTIA+, Network +, and Security + in all applicable classes
- (2) Integrate incremental skills and personality assessments
- (3) WBL for IT Specialist

Healthcare

- (1) Implement short-term Surgical Tech credential/Operating Room Aid
- (2) Medical Assistant requires a WBL component – job shadowing

- (1) Use Workforce System employer relations to attract instructors
- (2) Microsoft Excel, Outlook, Word & Teams in-demand across all sectors

Logistics & Transportation

- (1) Develop 40-hr entry-level training program for Supply-chain Specialist
- (2) Connect employers to Employ NV Bus Services for Diesel Tech OHT
- (3) CDL A & B added scheduling

Advanced Manufacturing

- (1) Add Design Engineers with AutoCAD and SolidWorks Mechanical and Electrical Associate industry credentials
- (2) Add electrical control safety to competencies
- (3) Increase connectivity to WBL including tours to provide exposure to modern manufacturing
- (4) Support mobile training for rural residents

# GJNN Education & Training at WNC – Manufacturing Sector

| Certificate or Course  | Description  |
|--|--|
| Manufacturing Technician – Skills Certificate                  | SACA C-101 Certified Industry 4.0 Associate I – Basic Operations   |
| Mechatronics Foundation – Skills Certificate                   | SACA C-102 Certified Industry 4.0 Associate II   |
| Industrial Electronics Technology – Skills Certificate         | International Society of Certified Electronics Technicians (ISCET) Certified Electronics Technician Associate Exam |
| Industrial Electronics Technology – Certificate of Achievement | ISCET Certified Electronics Technician Associate Exam  |
| Mechatronics – Certificate of Achievement                      | SACA C-101 & C-102   |

# GJNN Education & Training at TMCC – Manufacturing Sector

| Certificate or Course   | Description  |
|---|--|
| Machining Level I CNC Milling: Operations and Programming – Skills Certificate    | This skills certificate will prepare students to take four credentialing exams: 1) Materials, Measurement, and Safety, 2) Job Planning, Benchwork, and Layout, 3) CNC Milling-Operations, and 4) CNC Milling-Programming, Setup, and Operations through the National Institute for Metalworking (NIMS) Machining Level 1 |
| Machining Level I CNC Turning: Operations and Programming – Skills Certificate    | This skills certificate will prepare students to take four credentialing exams: 1) Materials, Measurement, and Safety, 2) Job Planning, Benchwork, and Layout, 3) CNC Milling-Operations, and 4) CNC Milling-Programming, Setup, and Operations through the National Institute for Metalworking (NIMS) Machining Level 1 |
| CAD Technician – Skills Certificate   | Competency-based; hands-on learning exercises ranging from manually produced drawings to intermediate computerized two-dimensional projects  |
| Industrial 4.0 Fundamentals and Applications – Skills Certificate                 | Entry Level<br>Intermediate Level  |
| Industrial Maintenance for Automation – Skills Certificate                        | Basic operation and servicing of automated production lines and robotics   |
| Industrial Mechatronics – Skills Certificate                                      | Will instruct students on foundational and intermediate components of electrical, fluid, and mechanical power, and their applications in the field of manufacturing  |
| Industrial Process and Maintenance Theory Skills Certificate – Skills Certificate | entry-level positions or career advancement and are designed to prepare students to take state, national and/or industry-recognized certifications or licensing exams  |
| Industrial Programming and Controls – Skills Certificate                          | Will prepare students to interact with industry standard programmable equipment such as Programmable Logic Controllers (PLCs) and robotics as well as control logic common to programming languages and diagrams in industry.  |
| Manufacturing and Production Technology (MPT) 101                                 | Single course, in-development as Adult Education IET   |
| Programmable Logic Controllers  | Single Course  |
| Flux-Cored Arc Welding (FCAW) & Gas Tungsten – Skills Certificate                 | American Welding Society (AWS) certified welding (CW) exams  |
| Shielded Metal Arc-Welding (SMAW) and Gas Metal Arc-Welding (GMAW)                | American Welding Society (AWS) certified welding (CW) exams  |
| Welding/CNC– Skills Certificate   |  |
| Manufacturing Pre-Apprenticeship  | Adult Education  |
| Registered Apprenticeships:   | Industrial Machine Mechanic<br>Production Technician   |