

SEMCA MICHIGAN

WORKS!

WIN

WORKFORCE
INTELLIGENCE
NETWORK



**2026
GEM MOBILITY CAREER
PROFILES**

**WORKFORCE PATHWAYS SUPPORTING
THE FUTURE OF MOBILITY
IN SOUTHEAST MICHIGAN**

INTRODUCTION

GEM BACKGROUND AND CAREER PROFILES

Career Profiles

- 2 - Assemblers & Fabricators, All Other
- 4 - Automotive Service Technicians and Mechanics
- 6 - Chemists
- 8 - Computer Numerically Controlled Tool Operators
- 10 -Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic
- 12 -Electrical and Electronic Engineering Technologists and Technicians
- 14 -Electrical and Electronics Installers and Repairers, Transportation Equipment
- 16 -Electrical and Electronics Repairers, Powerhouse, Substation and relay
- 18 -Electrical Engineers
- 20 -Electrical Power Line Installers and Repairers
- 22 -Electrical, Electronic, and Electromechanical Equipment Assemblers, Except Coil Winders, Tapers and Finishers
- 24 -Electro-Mechanical and Mechatronics Technologists and Technicians
- 26 -Electronics Engineers, except computer
- 28 -Engineers, all other
- 30 -Environmental scientists and specialists, including health
- 32 -First-line supervisors of Mechanics, Installers and repairers
- 34 -First-line supervisors of Production and Operating workers
- 36 -Industrial Engineers
- 38 -Industrial Machinery Mechanics
- 40 -Industrial Production managers
- 42 -Inspectors, Testers, Sorters, Samplers and Weighers
- 44 -Laborers and Freight, Stock, and Material Movers, Hand
- 46 -Machinists
- 48 -Maintenance and Repair workers, general
- 50 -Materials engineers
- 52 -Mechanical Engineers
- 54 -Multiple Machine tool setters, Operators and tenders, Metal and plastic
- 56 -Semiconductor processing technicians
- 58 -Software developers
- 60 -Stationary engineers and boiler operators
- 62 -Team assemblers
- 64 -Welders, cutters, solderers and brazers

About this Report

Introduction: GEM Mobility Career Profiles

The Global Epicenter of Mobility (GEM) is a regional initiative led by the Detroit Regional Partnership (DRP) to position Southeast Michigan as a global hub for advanced mobility innovation, design, and manufacturing. GEM is supported by a U.S. Economic Development Administration (EDA) Build Back Better Regional Challenge grant and implemented through strategies focused on technology development, business attraction, site readiness, and talent transformation across the 11-county Detroit region.

From Technology Priorities to Workforce Demand

In 2024, GEM commissioned the Future Mobility Technology Study (FMTS), conducted by S&P Global Mobility, to identify advanced mobility technologies with the strongest growth potential through 2030. The study identified seven priority technology areas, including propulsion batteries, electric motors, hydrogen fuel cell systems, power electronics, assembly automation, thermal systems, and software-defined vehicles.

Building on these findings, SEMCA, DRP, and GEM launched the GEM Technology Talent Study in 2025 to assess how mobility technologies translate into workforce demand. The study examined labor supply, occupational needs, skill requirements, and talent transition opportunities to support alignment with emerging mobility industries.

Identifying the 32 Target Mobility Careers

A key outcome of the GEM Technology Talent Study was the identification of 32 target occupations critical to the development, production, and maintenance of advanced mobility technologies. These occupations fall within three groups: Production; Repair and Maintenance; and Scientists and Engineers.

Occupations were identified through a data-driven process that included labor market analysis, mapping to priority mobility technologies, employer skill demand assessment, and validation through industry interviews. This approach ensured alignment with current employer demand and future workforce needs.

Purpose of This Career Profile Collection

The GEM Mobility Career Profiles, developed by the Workforce Intelligence Network (WIN), translate GEM Talent Study findings into standardized, occupation-level resources. Together, these profiles explain why specific careers were prioritized and strengthen competitiveness.



ASSEMBLERS AND FABRICATORS, ALL OTHER OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Assemblers and Fabricators, All Other refers to workers who assemble products or parts, typically in factories or workshops. This category covers roles not captured by specific job titles, including bench assemblers, small-parts assemblers, product assemblers in manufacturing, and those assembling mechanical parts, furniture, or devices.

**7,789
WORKERS
EMPLOYED**

WAGE DISTRIBUTION

	Entry	Median	Experienced
Assemblers and Fabricators, All Other	\$17.43	\$19.48	\$24.32

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
High school diploma or equivalent	Moderate-term on-the-job training	None

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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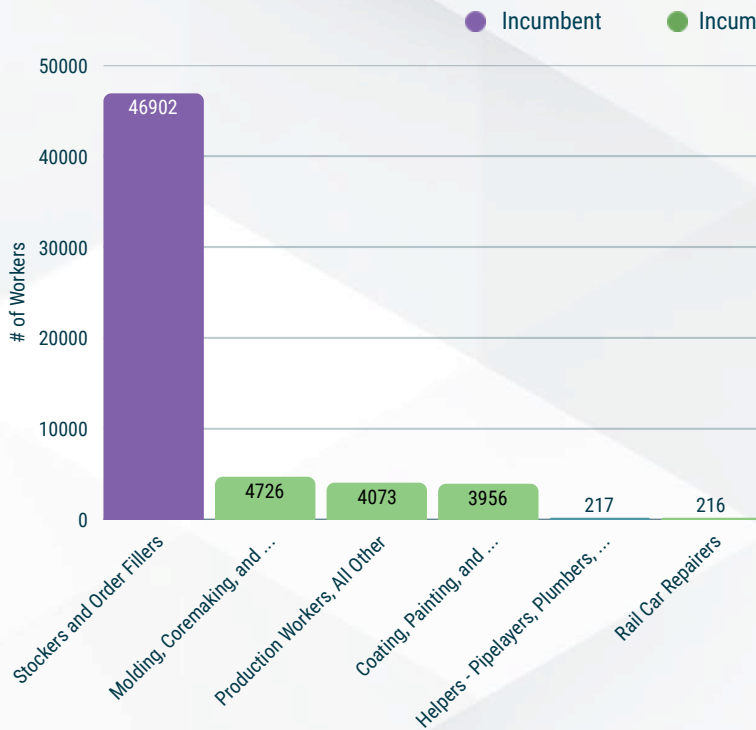
TOP POSTED EMPLOYERS

Ordered by frequency of postings:

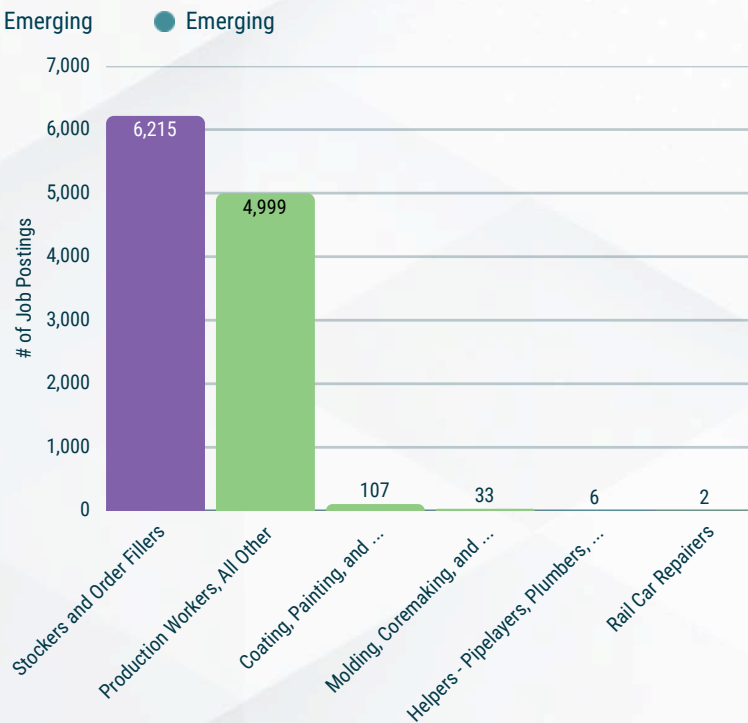
- Express Employment Professionals
- ResourceMFG
- Workbox Staffing
- Qualified Staffing
- Aerotek
- Hickman Assembly
- ASSEMBLERS, INC.
- Kelly
- Manpower Group
- National Assemblers

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS



NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

Emerging and incumbent skills data come from “hard skills” listed in job postings for specific occupations. Emerging skills are based on postings from top companies focused on electric vehicle (EV) manufacturing. Incumbent skills are based on postings from top mobility companies across all technology types.

INCUMBENT SKILLS

1. Hand Tools
2. Assembly
3. Ability to Lift 31-40 lbs.
4. Manufacturing
5. Power Tools
6. Soldering
7. Mechanical
8. Fork Trucks
9. Microsoft Office
10. SAP

EMERGING SKILLS

1. Lathes
2. Metal Inert Gas Welding (MIG Welding)
3. Blueprint Reading
4. Welding
5. Dassault Systemes SolidWorks Software
6. Ability to Lift 41-50 lbs.
7. Assembly
8. Hand Tools
9. Acetylene Torches
10. Autodesk AutoCAD



AUTOMOTIVE SERVICE TECHNICIANS AND MECHANICS

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Automotive Service Technicians and Mechanics diagnose, repair, and maintain vehicles to ensure safety and efficiency. Cars are inspected to detect damage or mechanical issues, with tools and test drives used to assess various systems. Tasks include fixing or replacing components such as brakes and adjusting systems to comply with manufacturer standards. Work orders are reviewed and findings are recorded to provide accurate service documentation.



WAGE DISTRIBUTION

	Entry	Median	Experienced
Automotive Service Technicians and Mechanics	\$16.94	\$24.44	\$30.24

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
Postsecondary non-degree award	Short-Term Job Training	None

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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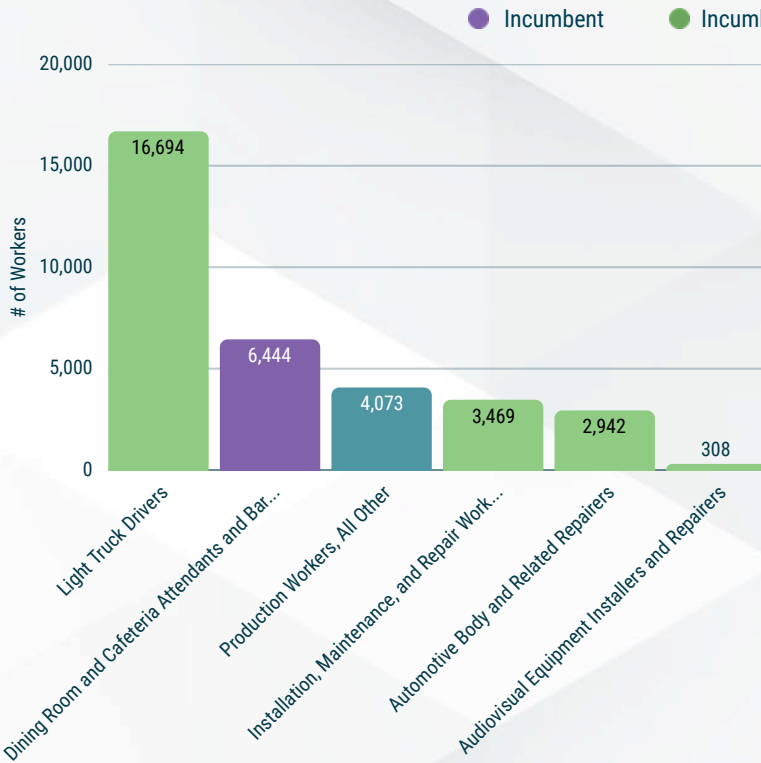
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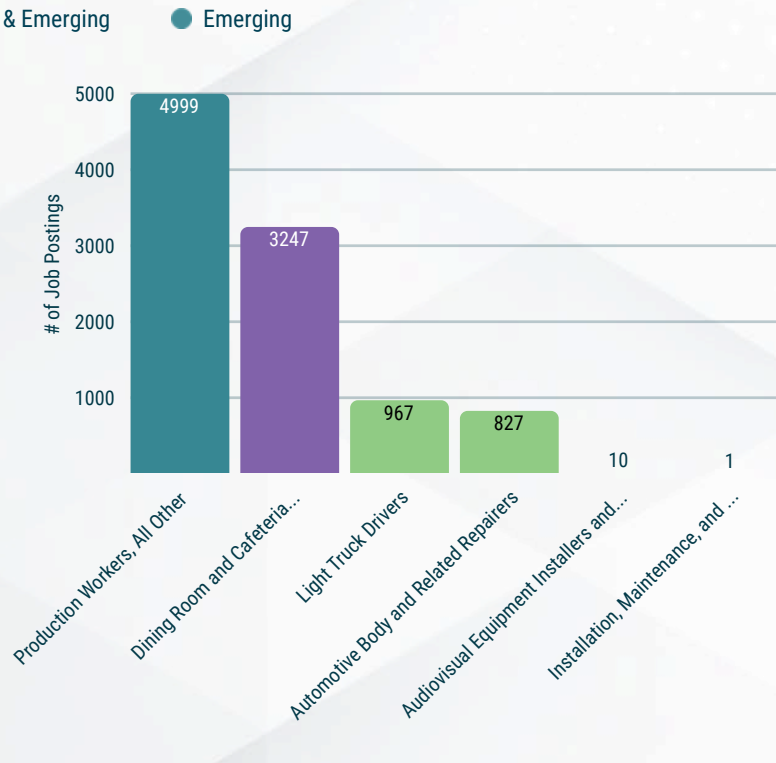
- Company Name
- Belle Tire
- Valvoline Instant Oil Change
- Lithia Motors
- Allstate Good Hands Rescue Network
- Goodyear
- Auto Plus Pep Boys
- Monro Muffler/Brake
- LaFontaine Automotive Group
- Bridgestone
- Discount Tire

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS



NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

Emerging and incumbent skills data come from “hard skills” listed in job postings for specific occupations. Emerging skills are based on postings from top companies focused on electric vehicle (EV) manufacturing. Incumbent skills are based on postings from top mobility companies across all technology types.

INCUMBENT SKILLS

1. Automotive Maintenance/Repair
2. Ability to Lift 41-50 lbs.
3. Hydraulic Systems
4. Brake Installation/Maintenance/Repair
5. Mechanical
6. Power Tools
7. Oil Filters
8. Hand Tools
9. Ability to Lift 51-100 lbs.
10. Mathematics

EMERGING SKILLS

1. Microsoft Excel
2. Microsoft Office
3. Microsoft Outlook
4. Microsoft PowerPoint
5. Ability to Lift 51-100 lbs.
6. Power Tools
7. Ability to Lift 41-50 lbs.
8. Automotive Maintenance/Repair
9. Start-Ups
10. Information Security



CHEMISTS

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Chemists study substances to create new products, improve processes, and meet quality standards. Laboratory techniques such as chromatography and spectroscopy are used by chemists, who conduct experiments, perform quality tests, prepare solutions, analyze data, maintain equipment, collaborate with colleagues, and document results to ensure safety and proper testing procedures.



WAGE DISTRIBUTION

	Entry	Median	Experienced
Chemists	\$27.90	\$40.70	\$53.85

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
Bachelor's Degree	None	None

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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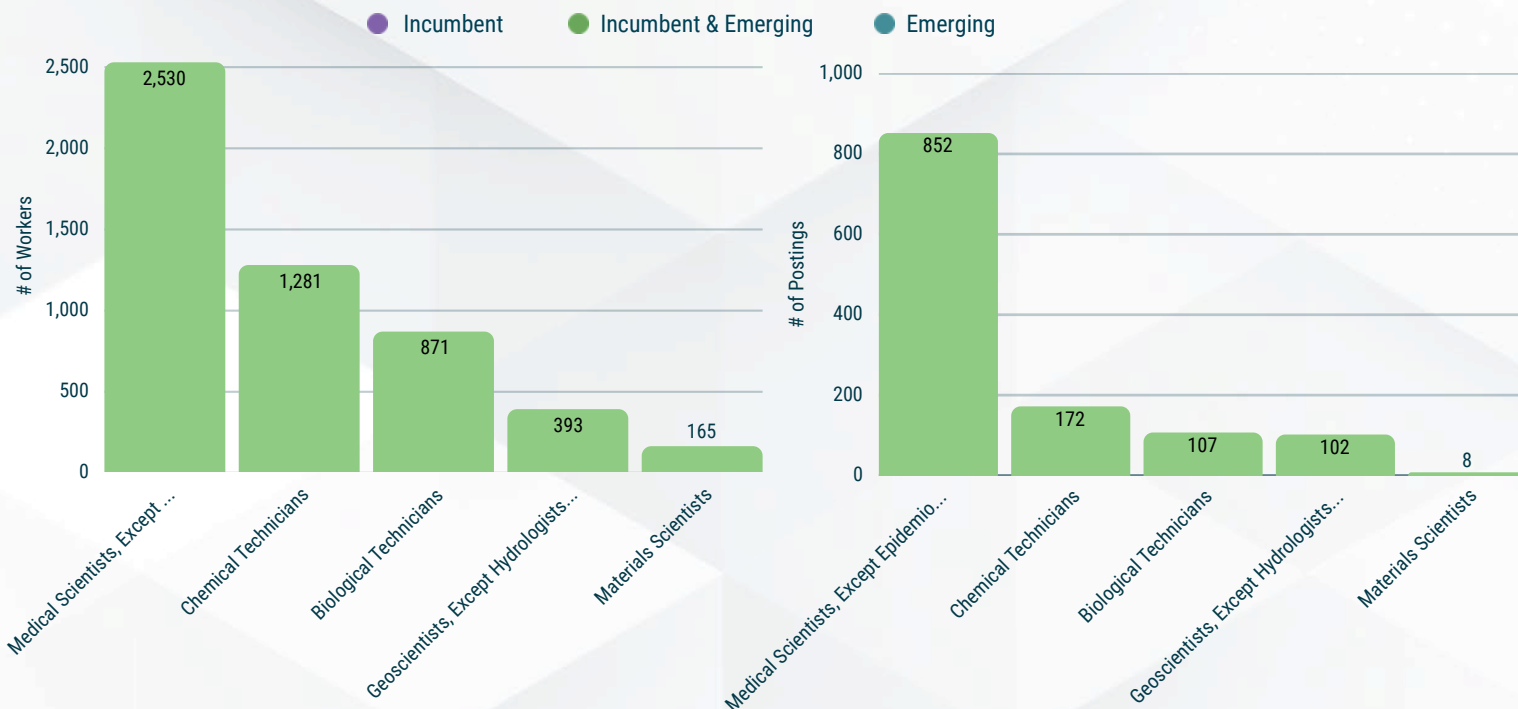
Ordered by frequency of postings:

- Element Materials Technology
- Piramal
- Actalent
- Kelly
- Wacker Chemical Corporation
- CPS, Inc.
- AbbVie
- Henkel
- Wacker Chemical Corporation

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS

NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

Emerging and incumbent skills data come from “hard skills” listed in job postings for specific occupations. Emerging skills are based on postings from top companies focused on electric vehicle (EV) manufacturing. Incumbent skills are based on postings from top mobility companies across all technology types.

INCUMBENT SKILLS

1. Microsoft Office
2. Microsoft Excel
3. Fourier Transform Infrared Spectroscopy (FTIR)
4. High Pressure Liquid Chromatograph (HPLC)
5. Nuclear Magnetic Resonance (NMR)
6. Microsoft Word
7. Chemdraw
8. Synthetic Aperture Radar (SAR)
9. Dynamic Mechanical Analyzers (DMA)
10. Laboratory Information Management System Software (LIMS)

EMERGING SKILLS

1. Occupational Safety and Health Administration Regulations (OSHA Regulations)
2. Process Development
3. Chemistry
4. Data Analysis
5. Equipment Selection
6. High Pressure Liquid Chromatograph (HPLC)
7. Laboratory Information Management System Software (LIMS)
8. Nuclear Magnetic Resonance (NMR)



COMPUTER NUMERICALLY CONTROLLED TOOL OPERATIONS

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Computer Numerically Controlled (CNC) Tool Operators operate computer-controlled machines and robots to cut, shape, or process materials such as metal, plastic, wood, or other materials. Equipment is set up, materials are loaded, and program specifications or blueprints are followed to ensure correct machine operations. Finished parts are measured using precision tools to verify that specifications are met.

4,888
WORKERS
EMPLOYED

WAGE DISTRIBUTION

	Entry	Median	Experienced
Computer Numerically Controlled Tool Operators	\$17.81	\$22.35	\$26.56

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
High school diploma or equivalent	Moderate-term on-the-job training	None

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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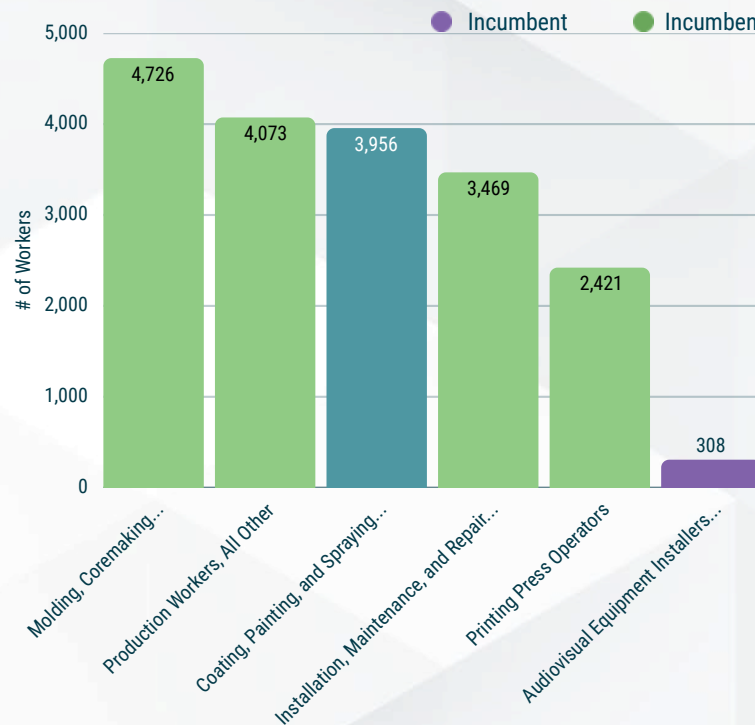
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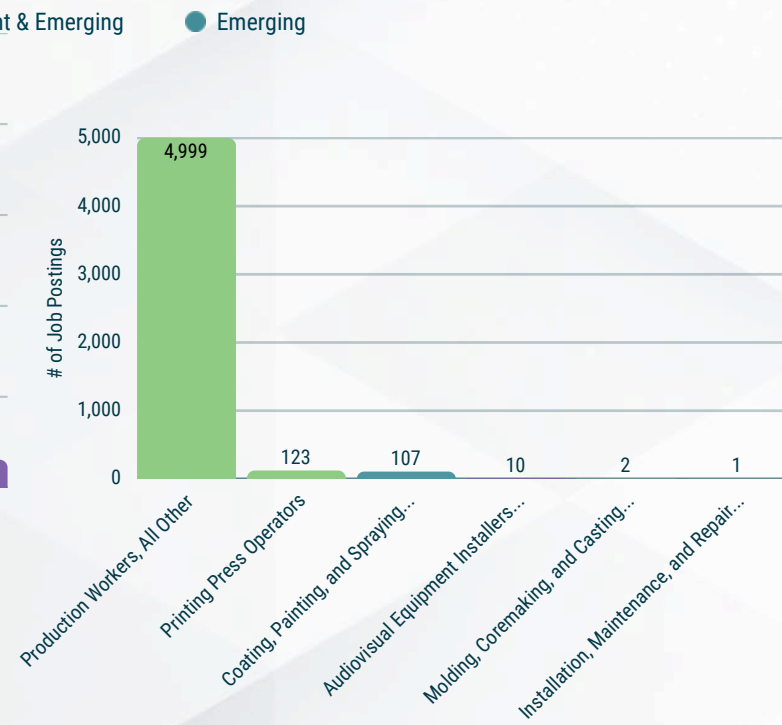
- Aerotek
- Express Employment Professionals
- Workbox Staffing
- Qualified Staffing
- Nesco Resource, LLC Jobs
- Spark Talent Inc
- Sentech Services
- ResourceMFG
- Trillium Staffing
- Manpower Group

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS



NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

Emerging and incumbent skills data come from “hard skills” listed in job postings for specific occupations. Emerging skills are based on postings from top companies focused on electric vehicle (EV) manufacturing. Incumbent skills are based on postings from top mobility companies across all technology types.

INCUMBENT SKILLS

1. Lathes
2. Manufacturing
3. Micrometers
4. Machining Centers
5. Gauges
6. Computerized Numerical Control Software (CNC Software)
7. Blueprint Reading
8. Mathematics
9. Dial Indicators
10. Milling Machines

EMERGING SKILLS

1. Computerized Numerical Control Software (CNC Software)
2. Ability to Lift 41-50 lbs.
3. Band Saws
4. Power Tools
5. CAD/CAM
6. 5S
7. Ability to Lift 21-30 lbs.
8. Computer Aided Design Software (CAD Software)
9. Gauges
10. Human Machine Interface Software (HMI)



CUTTING, PUNCHING, AND PRESS MACHINE SETTERS, OPERATORS, AND TENDERS, METAL AND PLASTIC

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Cutting, Punching, and Press Machine Setters, Operators, and Tenders set up and operate machines that cut, shape, or form metal and plastic materials. Work orders and production specifications are reviewed to determine materials, dimensions, and machine settings. Machine operations are monitored, finished parts are measured using precision tools, and products are inspected for defects to ensure quality standards are met. Machine speeds are adjusted, tools and dies are installed or aligned, materials are loaded, and a safe work area is maintained during production.



WAGE DISTRIBUTION

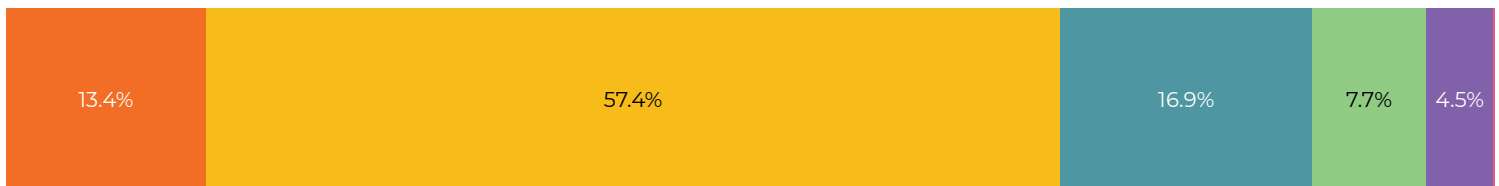
Cutting, punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic

Entry	Median	Experienced
\$17.24	\$22.50	\$26.44

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
High school diploma or equivalent	Moderate-term on-the-job training	None

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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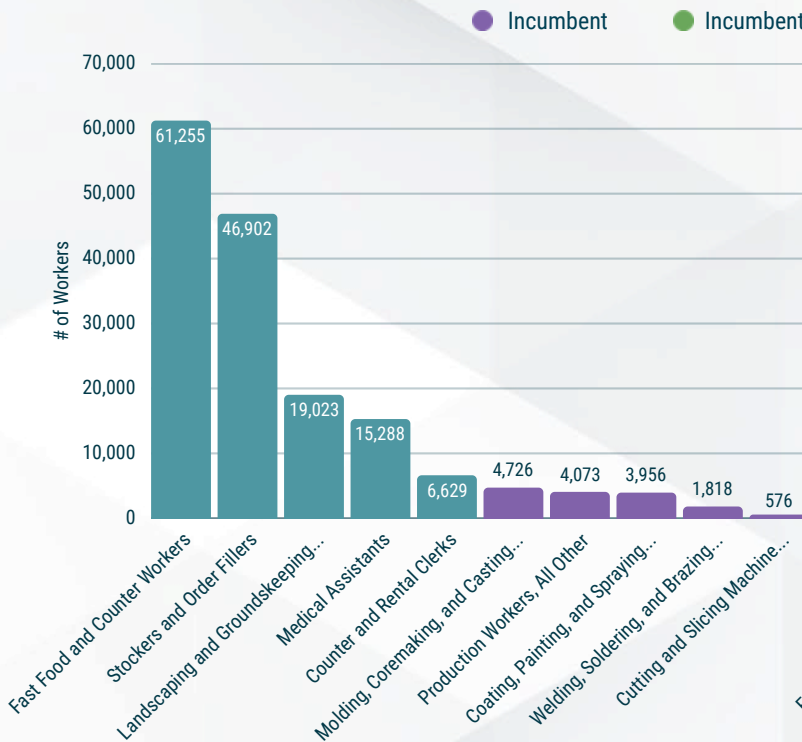
TOP POSTED EMPLOYERS

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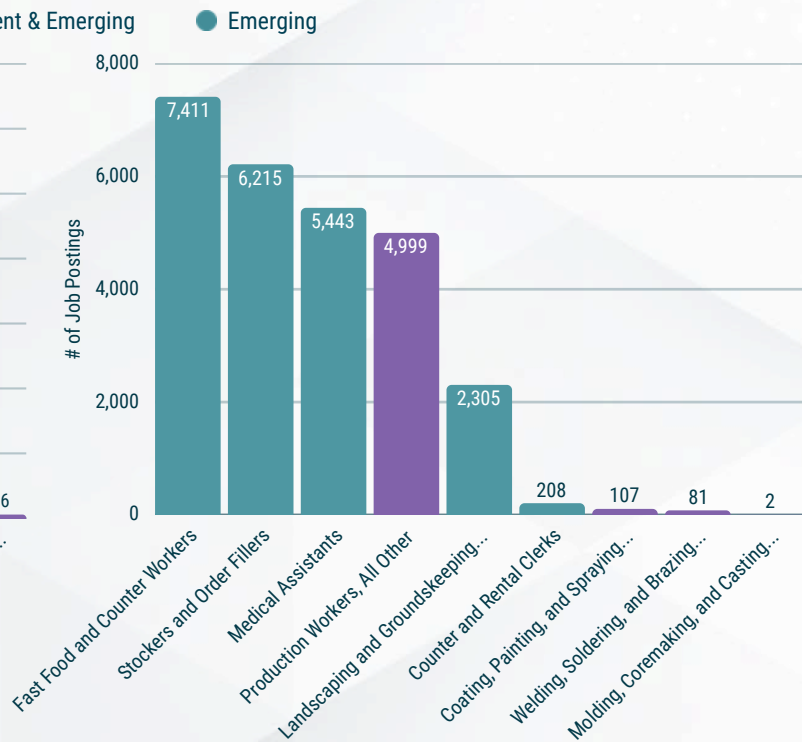
- Express Employment Professionals
- Aerotek
- Nesco Resource, LLC Jobs
- Spark Talent Inc
- ResourceMFG
- Sentech Services
- Manpower Group
- Fisher Dynamics
- PTM Corporation

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS



NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

Emerging and incumbent skills data come from “hard skills” listed in job postings for specific occupations. Emerging skills are based on postings from top companies focused on electric vehicle (EV) manufacturing. Incumbent skills are based on postings from top mobility companies across all technology types.

INCUMBENT SKILLS

1. Overhead Cranes
2. Hydraulic Presses
3. Dial Indicators
4. Hand Files
5. Micrometers
6. Blueprint Reading
7. Punch Presses
8. Power Brakes
9. Ability to Lift 41-50 lbs.
10. Forklifts

EMERGING SKILLS

1. Ability to Lift 41-50 lbs.



ELECTRICAL AND ELECTRONIC ENGINEERING TECHNOLOGISTS AND TECHNICIANS

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Electrical and Electronic Engineering Technologists and Technicians assist engineers in designing, testing, and maintaining electrical and electronic systems. Electronic components are assembled and repaired, testing equipment is used to diagnose problems, and faulty parts are replaced. Blueprints and technical diagrams are read to build or modify systems according to engineering specifications.



WAGE DISTRIBUTION

	Entry	Median	Experienced
Electrical and Electronic Engineering Technologists and Technicians	\$21.49	\$31.41	\$38.76

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
Associate's degree	None	None

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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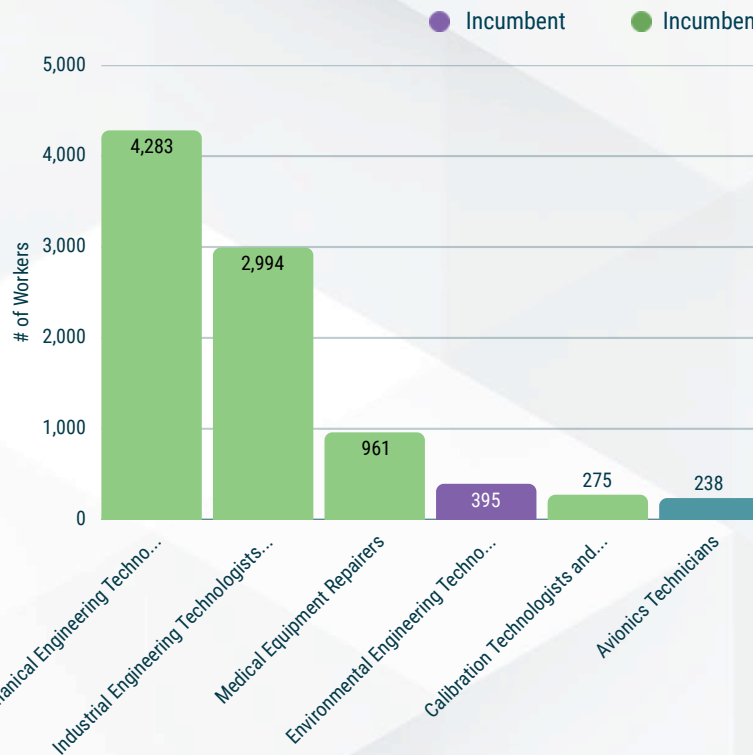
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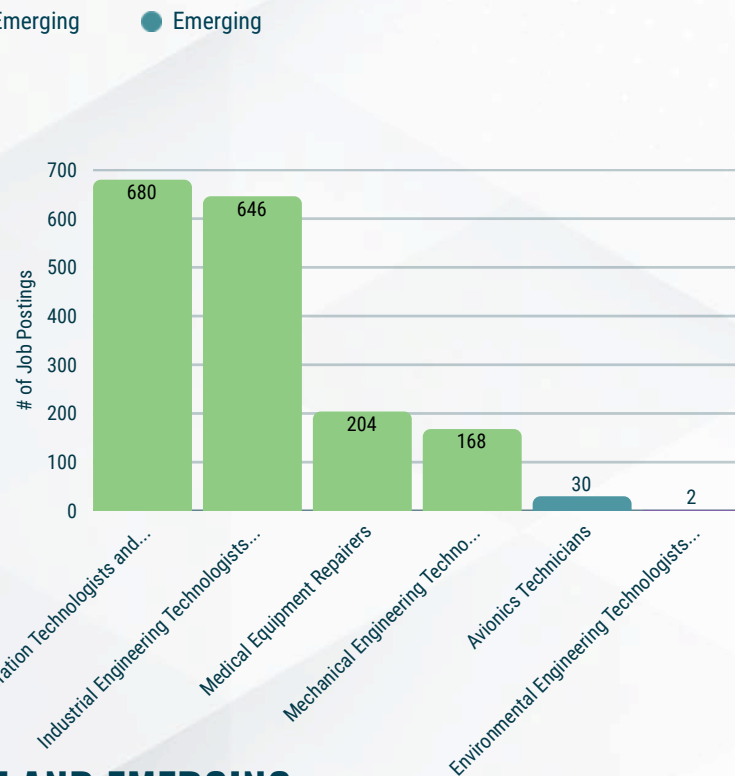
- Roush
- General Motors
- Aerotek
- Actalent
- Jacobs
- Element Materials Technology
- Kelly
- ICONMA
- Ford

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS



NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

Emerging and incumbent skills data come from “hard skills” listed in job postings for specific occupations. Emerging skills are based on postings from top companies focused on electric vehicle (EV) manufacturing. Incumbent skills are based on postings from top mobility companies across all technology types.

INCUMBENT SKILLS

1. Reading Schematics
2. Circuits
3. Microsoft Office
4. Radio Frequency (RF)
5. Spectrum Analyzers
6. Soldering
7. Microsoft Excel
8. Manufacturing
9. Generators
10. Computer Programming/Coding

EMERGING SKILLS

1. Soldering
2. Microsoft Office
3. Microsoft Excel
4. Python
5. Reading Schematics
6. Fabrication
7. Computer Aided Design Software (CAD Software)
8. Data Acquisition Systems
9. Manufacturing
10. Microsoft Outlook



ELECTRICAL AND ELECTRONICS INSTALLERS AND REPAIRERS, TRANSPORTATION EQUIPMENT

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Electrical and Electronics Installers and Repairers, Transportation Equipment install, maintain, and repair electronic and communication systems on transportation equipment such as trains and watercraft. Systems including navigation, sound, security, and surveillance equipment are serviced. Electrical problems are diagnosed using schematics and testing tools, and wiring or components are repaired or replaced. New electrical equipment is installed as needed to ensure proper operation.



WAGE DISTRIBUTION

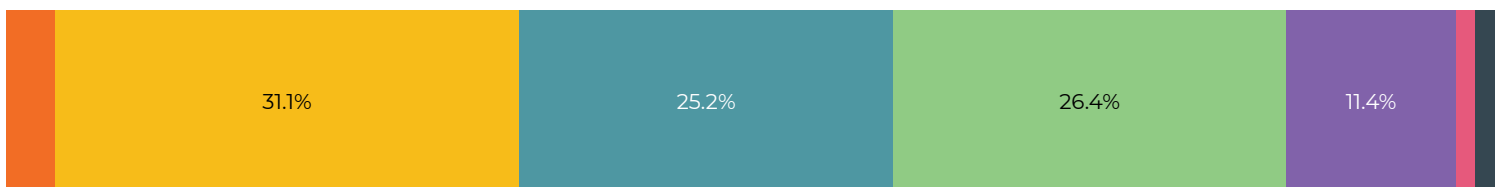
Electrical and Electronics Installers and Repairers, Transportation Equipment

Entry	Median	Experienced
\$22.22	\$26.71	\$32.15

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
Postsecondary non-degree award	Long-term on-the-job training	None

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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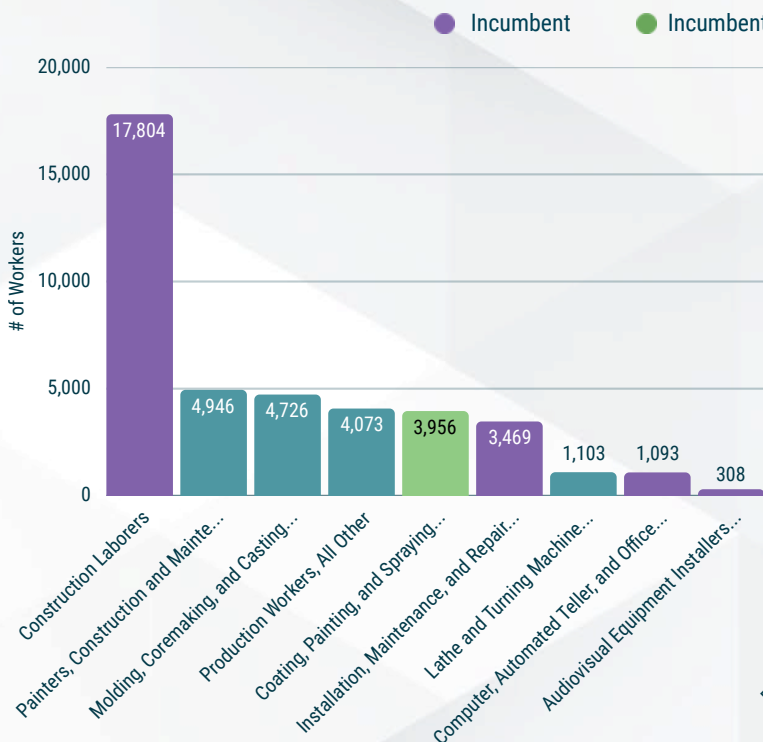
TOP POSTED EMPLOYERS

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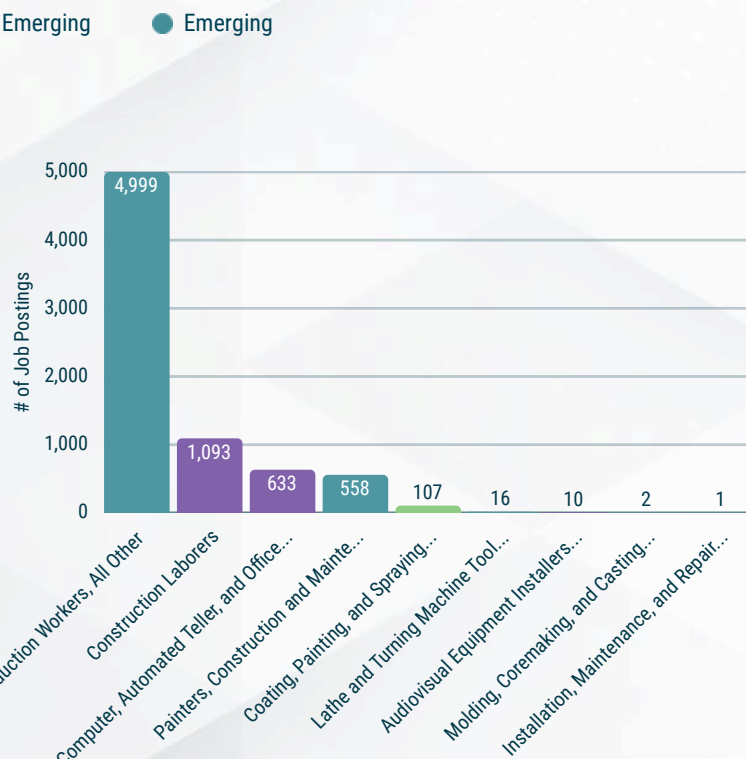
- Department of the Navy
- Aerotek
- Express Employment Professionals
- ASRC Federal
- IFL Instruments
- Detroit Transportation Corporation
- Gerdaul
- Roush
- SunSource
- US Navy

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS



NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

Emerging and incumbent skills data come from “hard skills” listed in job postings for specific occupations. Emerging skills are based on postings from top companies focused on electric vehicle (EV) manufacturing. Incumbent skills are based on postings from top mobility companies across all technology types.

INCUMBENT SKILLS

1. Soldering
2. Circuits
3. Multimeters
4. Reading Schematics
5. Using Ladders
6. Ability to Lift 51-100 lbs.
7. Drill Presses
8. Meggers
9. Cabling
10. Fabrication

EMERGING SKILLS

1. Forklifts
2. Soldering
3. Ability to Lift 21-30 lbs.
4. Calipers
5. Computer Aided Design Software (CAD Software)
6. Dassault Systemes SolidWorks Software
7. Electrical Wiring
8. Fabrication
9. Hand Tools
10. Multimeters

ELECTRICAL AND ELECTRONICS REPAIRERS, POWERHOUSE, SUBSTATION, AND RELAY

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Electrical and Electronics Repairers, Powerhouse, Substation, and Relay inspect, test, maintain, and repair electrical equipment used in power plants and substations. Testing devices and wiring diagrams are used to identify problems and ensure systems operate correctly. Components such as relays and circuit breakers are repaired or replaced, and equipment performance is tested. Maintenance activities are documented, and coordination with engineering staff supports resolution of technical issues.

**520
WORKERS
EMPLOYED**

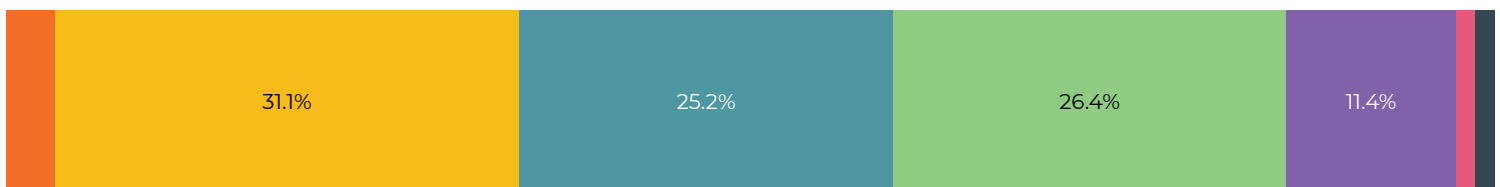
WAGE DISTRIBUTION

	Entry	Median	Experienced
Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	\$35.45	\$50.56	\$53.93

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
Postsecondary non-degree award	Moderate-term on-the-job training	Less than 5 years

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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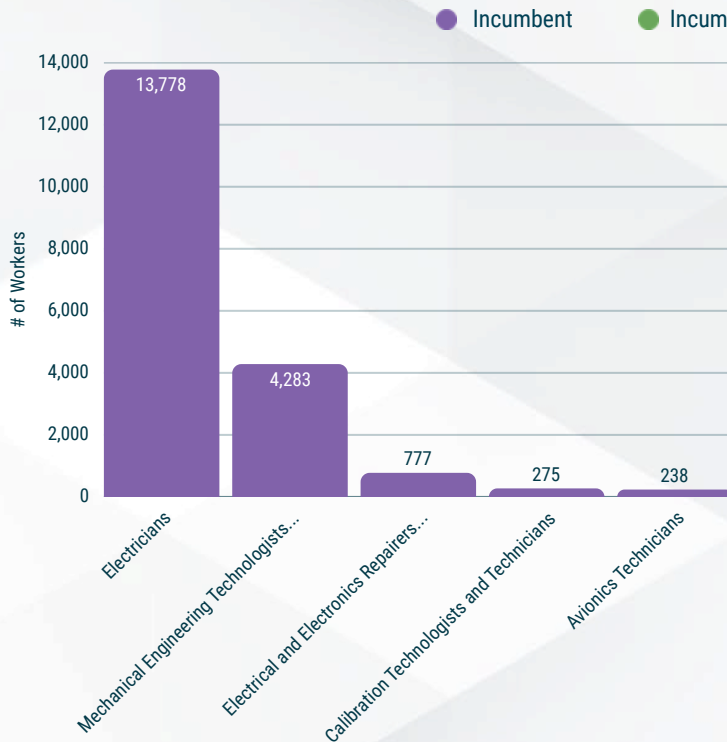
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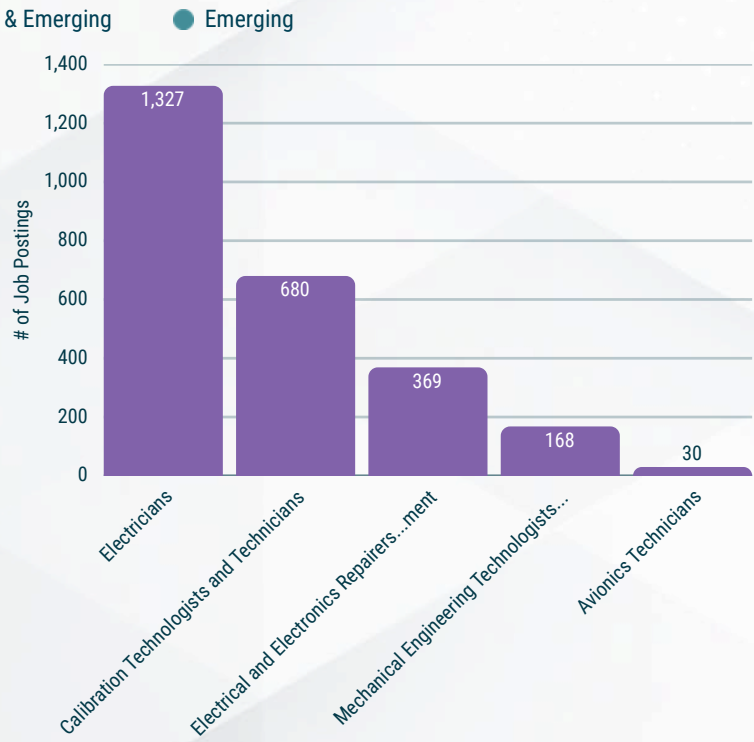
- Shermco Industries
- HDR
- SDMyers
- ITC Holdings Corp.
- Electric Power Systems
- CDM Smith
- System | One
- Orion Solutions Group
- Qualus
- CBS Field Services

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS



NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

Emerging and incumbent skills data come from “hard skills” listed in job postings for specific occupations. Emerging skills are based on postings from top companies focused on electric vehicle (EV) manufacturing. Incumbent skills are based on postings from top mobility companies across all technology types.

INCUMBENT SKILLS

1. Ability to Lift 51-100 lbs.
2. Aerial Lifts
3. Circuits
4. Meggers
5. Multimeters
6. Supervisory Control and Data Acquisition Software (SCADA Software)
7. Transducers

EMERGING SKILLS

N/A



ELECTRICAL ENGINEERS

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Electrical Engineers design, develop, and test electrical systems and equipment used in commercial, industrial, and scientific settings. Technical designs and specifications are created using engineering software and calculations. Coordination with teams ensures systems meet safety, performance, and regulatory standards. Projects are overseen and electrical installations are evaluated to ensure proper operation.



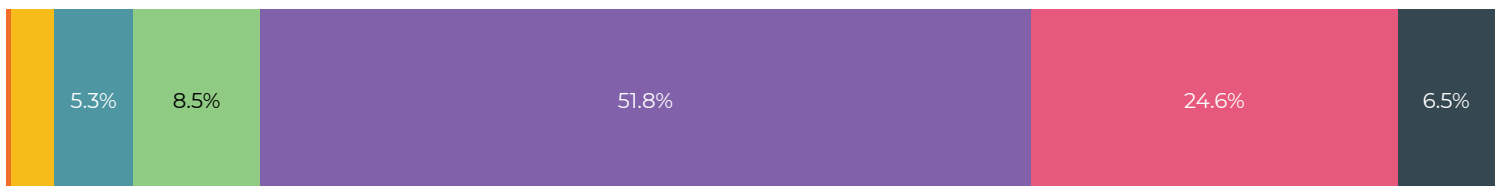
WAGE DISTRIBUTION

	Entry	Median	Experienced
Electrical Engineers	\$35.92	\$49.19	\$57.24

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
Bachelor's degree	None	None

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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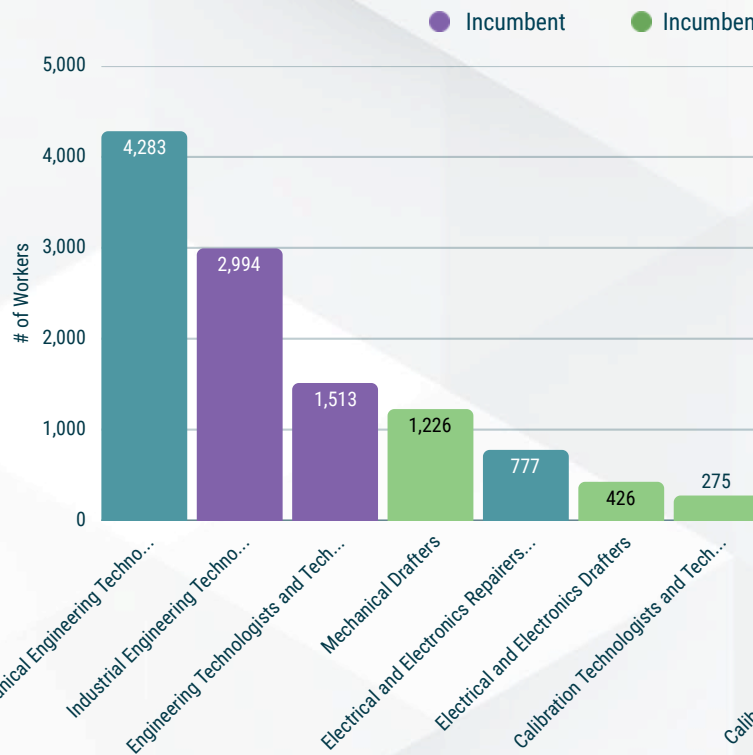
TOP POSTED EMPLOYERS

Ordered by frequency of postings:

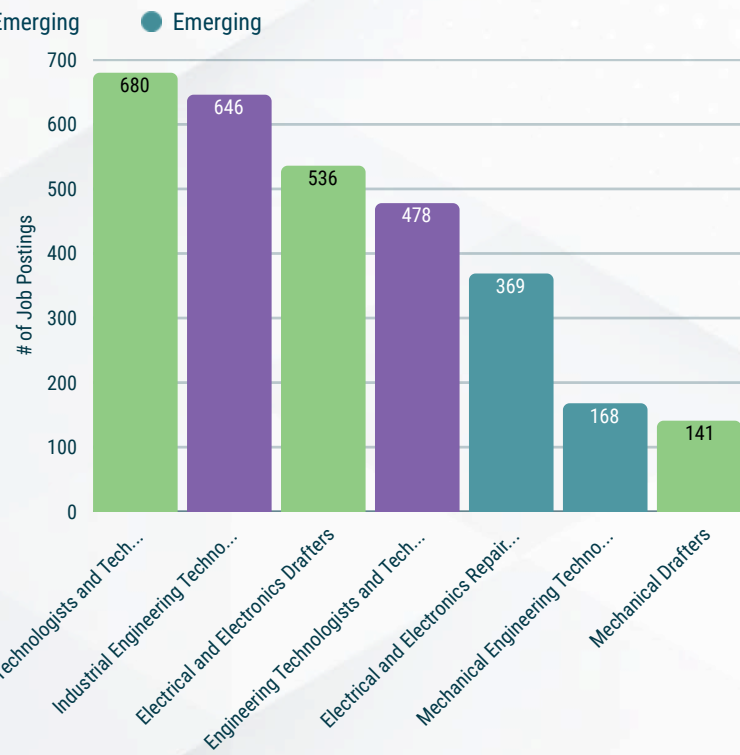
- Actalent
- Ford
- CyberCoders
- Black & Veatch
- General Motors
- Ford Motor Company
- gpac
- Leidos
- Jacobs

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS



NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

Emerging and incumbent skills data come from “hard skills” listed in job postings for specific occupations. Emerging skills are based on postings from top companies focused on electric vehicle (EV) manufacturing. Incumbent skills are based on postings from top mobility companies across all technology types.

INCUMBENT SKILLS

1. Mathematics
2. Field Programmable Gate Array (FPGA)
3. MATLAB
4. Computer Programming/Coding
5. Radio Frequency (RF)
6. Radar Systems
7. Microsoft Office
8. Process Development
9. Performance Management
10. Computer Aided Design Software (CAD Software)

EMERGING SKILLS

1. Python
2. Computer Programming/Coding
3. Computer Aided Design Software (CAD Software)
4. MATLAB
5. Manufacturing
6. Human Machine Interface Software
7. Reading Schematics
8. Autodesk AutoCAD
9. National Instruments LabVIEW
10. SCADA Software



ELECTRICAL POWER-LINE INSTALLERS AND REPAIRERS

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Electrical Power-Line Installers and Repairers install and repair cables and wires used in electrical power distribution and transmission systems. Poles are climbed or bucket trucks are used to access equipment, and components such as transformers, switches, and conductors are installed or maintained. Power lines are inspected and tested to identify problems, and damaged equipment or poles are repaired safely.



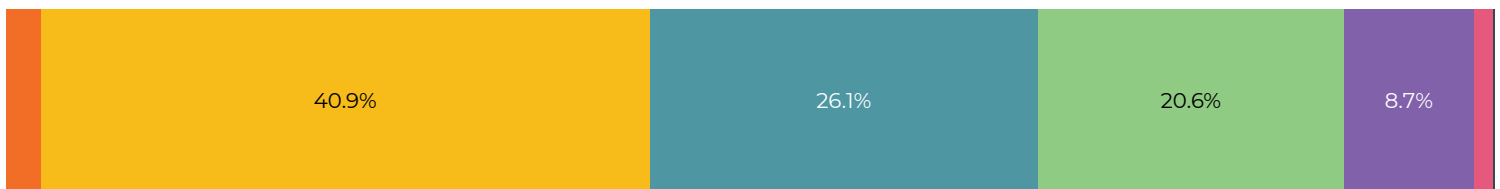
WAGE DISTRIBUTION

	Entry	Median	Experienced
Electrical Power-Line Installers and Repairers	\$31.53	\$51.81	\$55.75

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
High school diploma or equivalent	Long-term on-the-job training	None

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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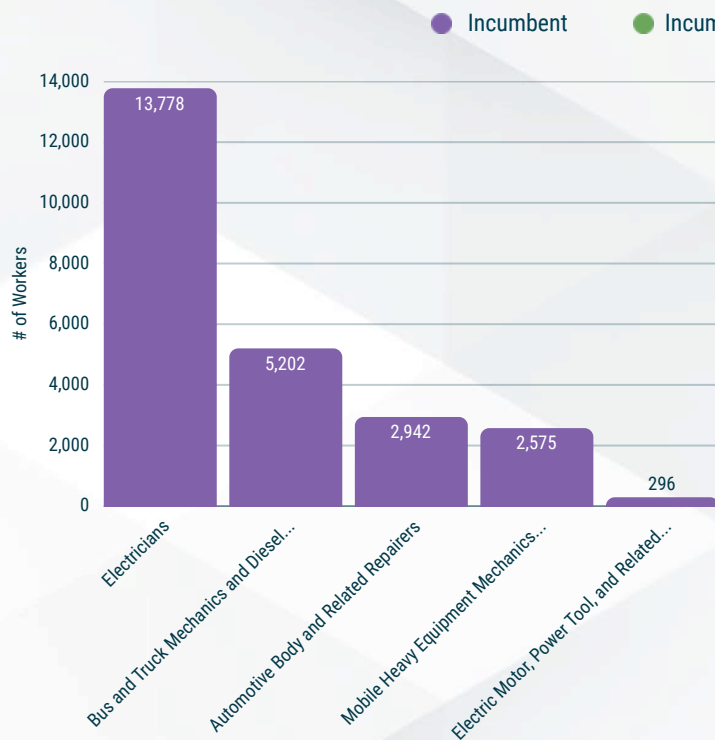
TOP POSTED EMPLOYERS

Ordered by frequency of postings:

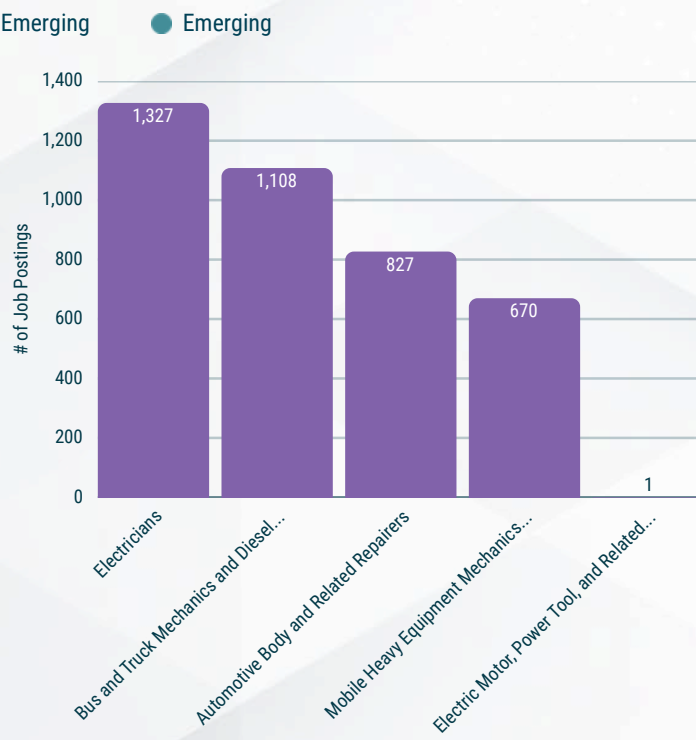
- Asplundh Tree Expert LLC
- Utilities Service, LLC
- DTE Energy
- Nelson Tree Service LLC
- United Lawnscape LLC
- Nelson Tree Service, LLC
- Consumers Energy Company
- Asplundh Tree Expert, LLC
- Grid One Solutions
- Grid One Solutions, LLC.

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS



NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

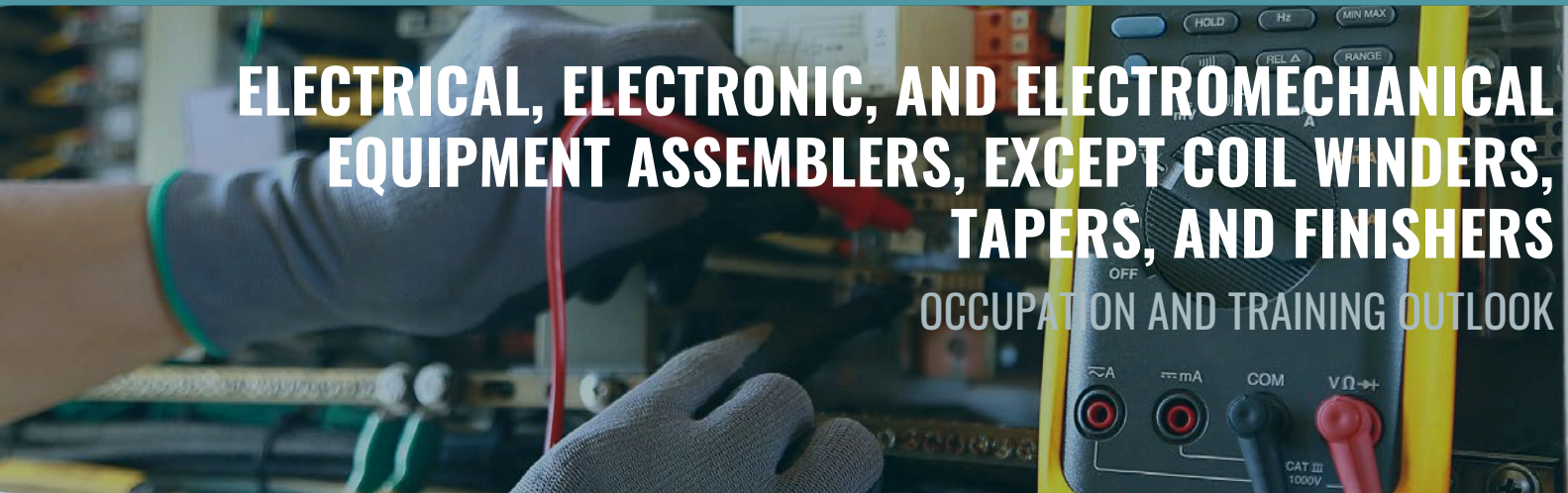
Emerging and incumbent skills data come from “hard skills” listed in job postings for specific occupations. Emerging skills are based on postings from top companies focused on electric vehicle (EV) manufacturing. Incumbent skills are based on postings from top mobility companies across all technology types.

INCUMBENT SKILLS

1. Ability to Lift 41-50 lbs.
2. Forklifts
3. Welding
4. Boilers
5. Brake Installation/Maintenance/Repair
6. IT Support

EMERGING SKILLS

N/A



ELECTRICAL, ELECTRONIC, AND ELECTROMECHANICAL EQUIPMENT ASSEMBLERS, EXCEPT COIL WINDERS, TAPERS, AND FINISHERS

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Electrical, Electronic, and Electromechanical Equipment Assemblers (Except Coil Winders, Tapers, and Finishers) assemble electrical, electronic, and electromechanical components used in a variety of products and systems. Technical diagrams, blueprints, or written instructions are followed to connect parts and install components correctly. Hand tools and testing equipment are used to ensure products function properly and meet quality standards.



WAGE DISTRIBUTION

Electrical, Electronic, and Electromechanical Equipment Assemblers, Except Coil Winders, Tapers, Finishers

Entry	Median	Experienced
\$17.77	\$20.06	\$23.54

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
High school diploma or equivalent	Moderate-term on-the-job training	None

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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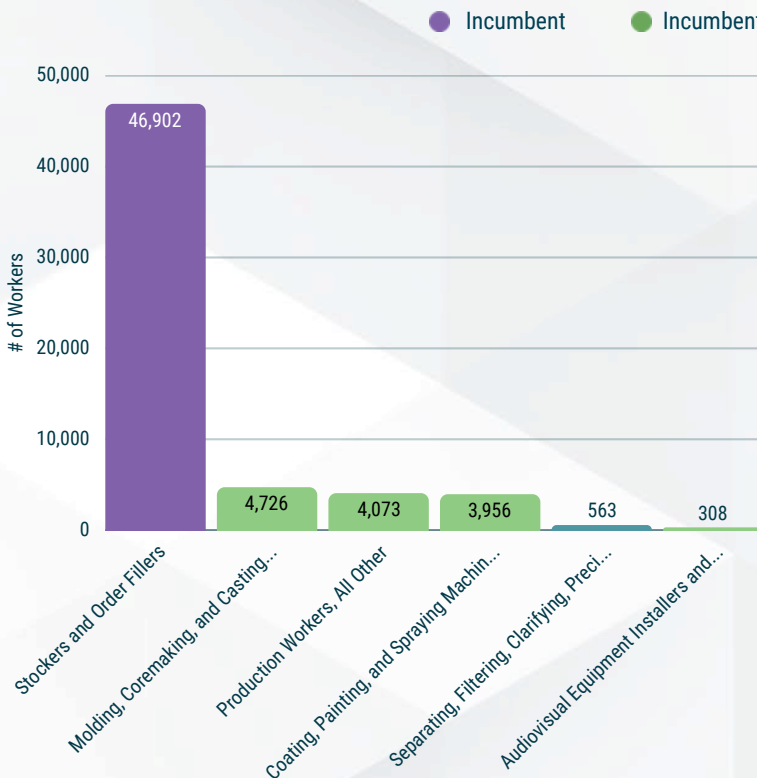
TOP POSTED EMPLOYERS

Ordered by frequency of postings:

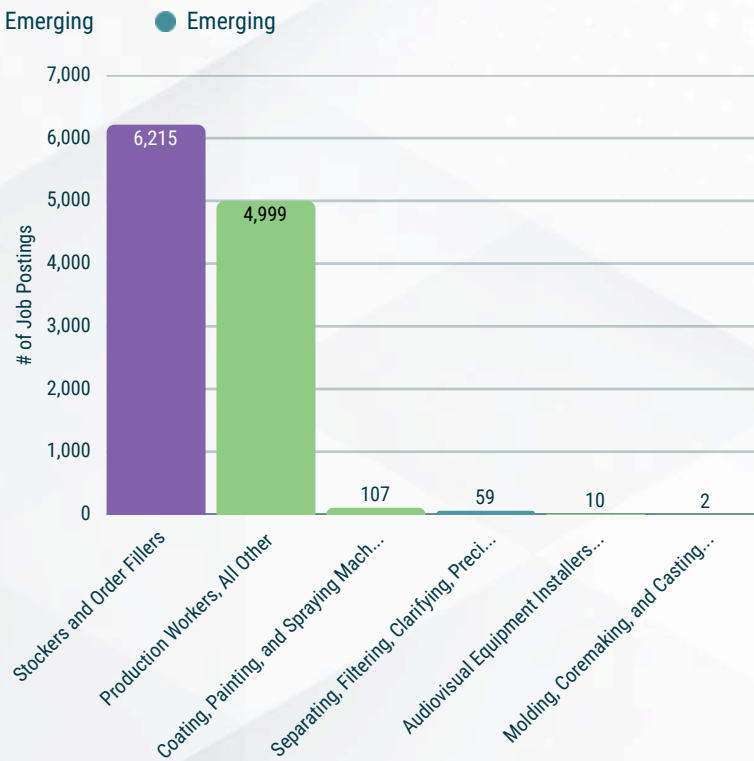
- Express Employment Professionals
- Workbox Staffing
- Nesco Resource, LLC Jobs
- Aerotek
- Kelly
- Qualified Staffing
- Sentech Services
- ResourceMFG
- Manpower Group
- Entech Staffing Solutions

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS



NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

Emerging and incumbent skills data come from “hard skills” listed in job postings for specific occupations. Emerging skills are based on postings from top companies focused on electric vehicle (EV) manufacturing. Incumbent skills are based on postings from top mobility companies across all technology types.

INCUMBENT SKILLS

- Soldering
- Assembly
- Manufacturing
- Circuit Boards
- Hand Tools
- Reading Schematics
- Ability to Lift 31-40 lbs.
- Microsoft Office
- Power Tools
- Crimping Tools

EMERGING SKILLS

- Dassault Systemes SolidWorks Software
- Soldering
- Assembly
- Multimeters
- Ability to Lift 41-50 lbs.
- Computer Aided Design Software (CAD Software)
- Google Suite
- Lathes
- Metal Inert Gas Welding (MIG welding)
- Micrometers



ELECTRO-MECHANICAL AND MECHATRONICS TECHNOLOGISTS AND TECHNICIANS

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Electro-Mechanical and Mechatronics Technologists and Technicians operate, test, maintain, and adjust automated, servomechanical, and electromechanical equipment. Unmanned systems such as submarines, aircraft, or robotic devices are operated to observe and record information in environments such as oil rigs, infrastructure sites, or hazardous locations. Assistance is provided to engineers in testing and developing robotics and automated equipment.



WAGE DISTRIBUTION

	Entry	Median	Experienced
Electro-Mechanical and Mechatronics Technologists and Technicians	\$21.06	\$29.86	\$33.39

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
Associate's degree	None	None

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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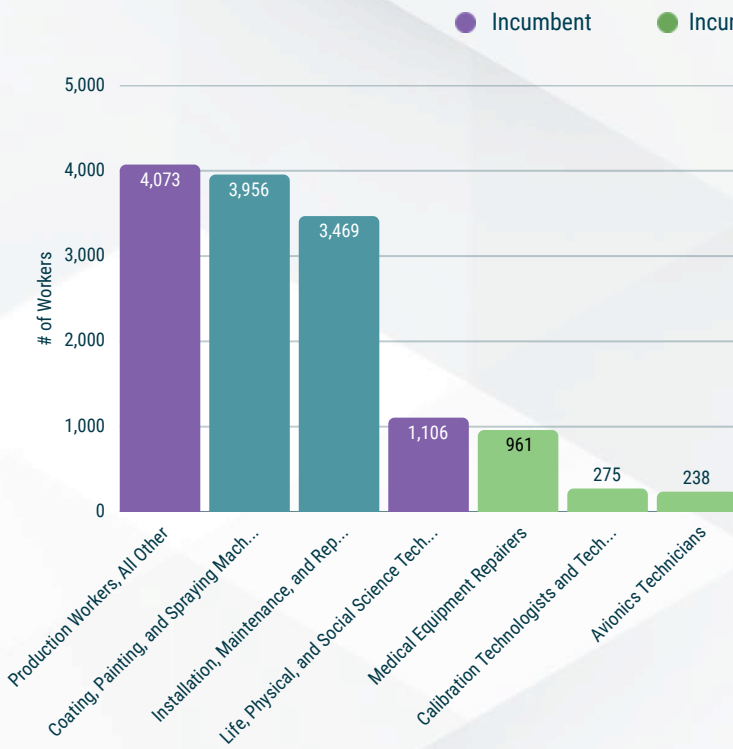
TOP POSTED EMPLOYERS

Ordered by frequency of postings:

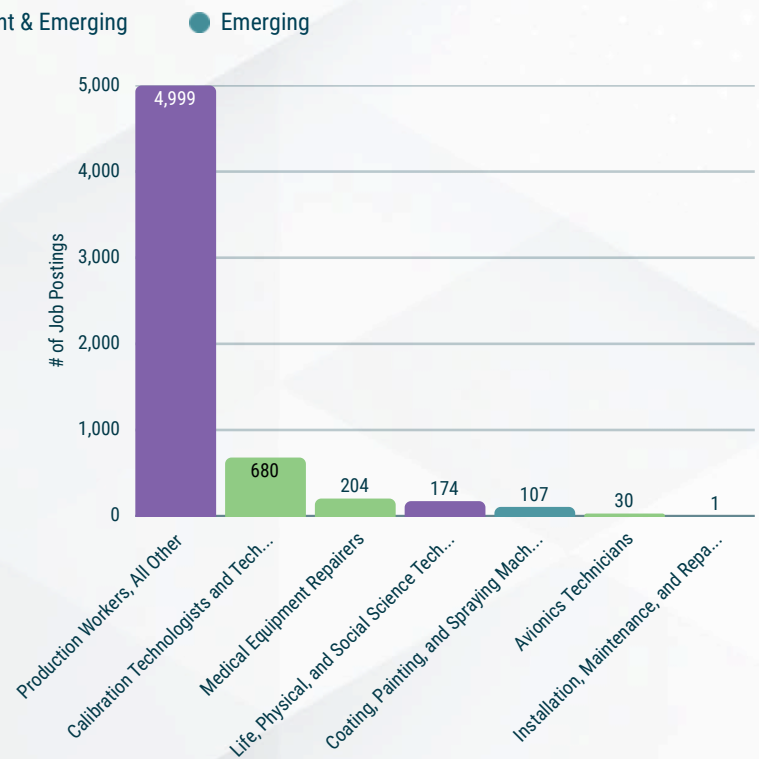
- Aerotek
- Jacobs
- Kelly
- Branex Group
- Link Engineering Company
- Actalent
- Manpower Group
- AMJ Staffing, Inc.
- Taldeco
- Randstad

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS



NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

Emerging and incumbent skills data come from “hard skills” listed in job postings for specific occupations. Emerging skills are based on postings from top companies focused on electric vehicle (EV) manufacturing. Incumbent skills are based on postings from top mobility companies across all technology types.

INCUMBENT SKILLS

1. Hand Tools
2. Reading Schematics
3. Assembly
4. Soldering
5. Fabrication
6. Microsoft Excel
7. Microsoft Office
8. Manufacturing
9. Computer Programming/Coding
10. Ability to Lift 31-40 lbs.

EMERGING SKILLS

1. Computer Aided Design Software (CAD Software)
2. Manufacturing
3. Computer Programming/Coding
4. Soldering
5. Reading Schematics
6. Microsoft Excel
7. Python
8. Data Acquisition Systems
9. Fabrication
10. National Instruments LabVIEW



ELECTRONICS ENGINEERS, EXCEPT COMPUTER

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Electronics Engineers, Except Computer research, design, develop, and test electronic equipment and systems used in commercial, industrial, military, or scientific applications. Electronic components, instruments, and systems are created and improved using engineering calculations and computer-aided design software. Installation and production activities are overseen to ensure systems meet technical specifications, safety standards, and customer requirements.



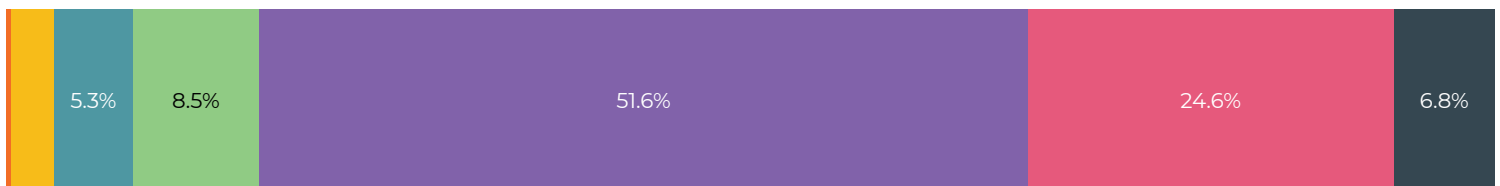
WAGE DISTRIBUTION

	Entry	Median	Experienced
Electronics Engineers, Except Computer	\$40.63	\$50.38	\$58.67

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
Bachelor's degree	None	None

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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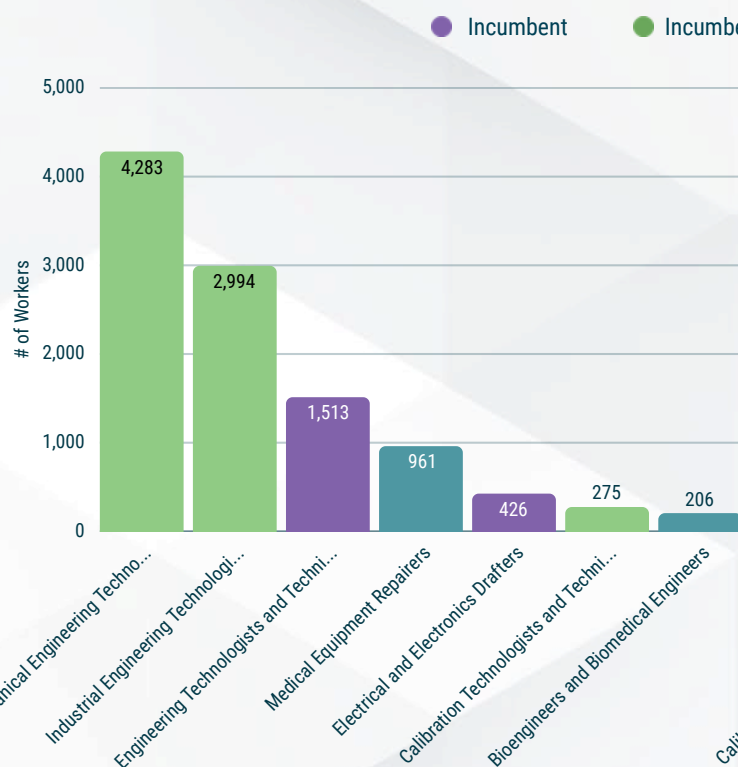
TOP POSTED EMPLOYERS

Ordered by frequency of postings:

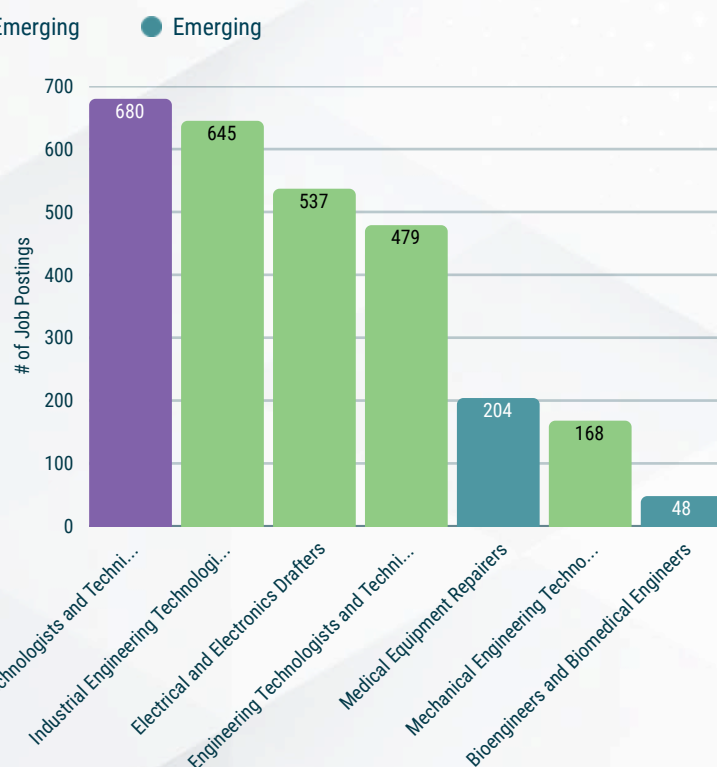
- General Motors
- Ford Motor Company
- EATON
- Aptiv
- ZF
- Actalent
- Ford
- General Dynamics Land Systems
- Magna International
- North American Lighting

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS



NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

Emerging and incumbent skills data come from “hard skills” listed in job postings for specific occupations. Emerging skills are based on postings from top companies focused on electric vehicle (EV) manufacturing. Incumbent skills are based on postings from top mobility companies across all technology types.

INCUMBENT SKILLS

1. Radio Frequency (RF)
2. Circuits
3. MATLAB
4. Mathematics
5. Spectrum Analyzers
6. Field Programmable Gate Array (FPGA)
7. Network Analyzers
8. National Instruments LabVIEW
9. Computer Programming/Coding
10. Microsoft Office

EMERGING SKILLS

1. Python
2. MATLAB
3. Computer Programming/Coding
4. Computer Aided Design Software (CAD Software)
5. National Instruments LabVIEW
6. The MathWorks Simulink
7. Information Security
8. Mechanical Design
9. Manufacturing
10. Circuits



ENGINEERS, ALL OTHER

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Engineers, All Other apply engineering principles to design, develop, test, or improve systems, products, or processes across a variety of industries. Technical problems are analyzed and solutions are developed to meet project goals. Work is performed in collaboration with teams to ensure compliance with performance, safety, and regulatory standards. Responsibilities may include research, design, testing, and project coordination depending on the field and organization.



WAGE DISTRIBUTION

	Entry	Median	Experienced
Engineers, All Other	\$33.78	\$49.38	\$60.96

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
Bachelor's degree	None	None

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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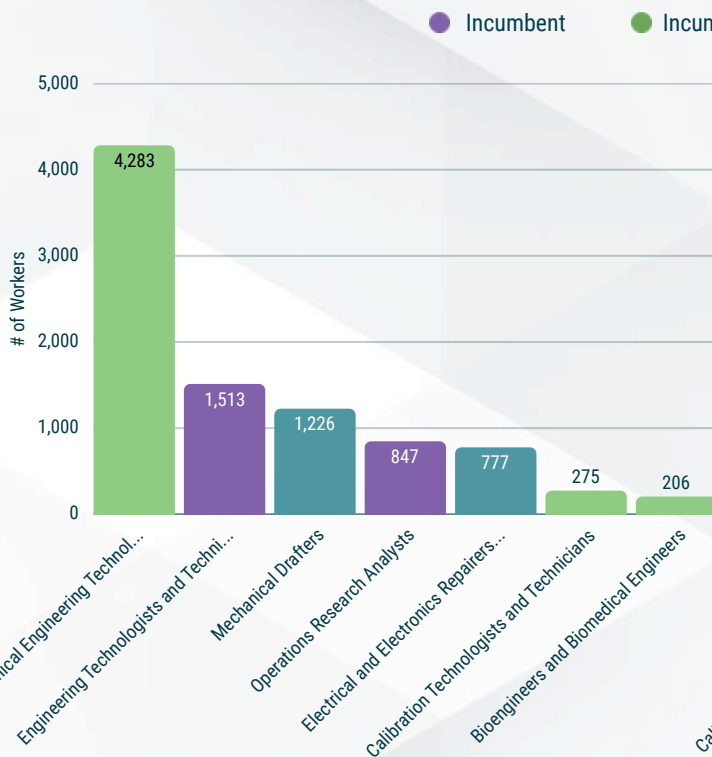
TOP POSTED EMPLOYERS

Ordered by frequency of postings:

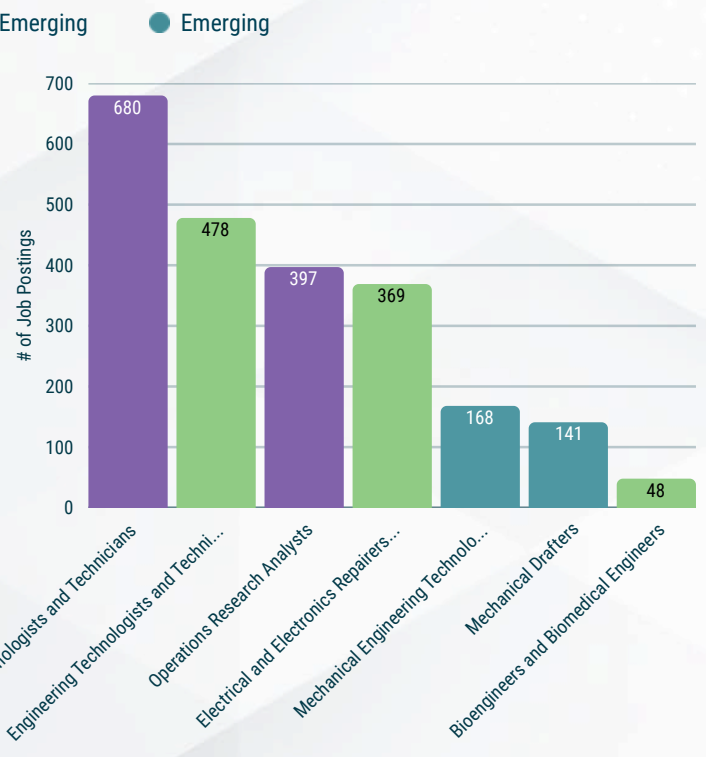
- General Motors
- KLA Corporation
- Trillium Staffing
- CBRE
- Magna International
- Actalent
- Insight Global
- Ford Motor Company
- Intertek
- RGSBI Jobs

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS



NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

Emerging and incumbent skills data come from “hard skills” listed in job postings for specific occupations. Emerging skills are based on postings from top companies focused on electric vehicle (EV) manufacturing. Incumbent skills are based on postings from top mobility companies across all technology types.

INCUMBENT SKILLS

1. Computer Programming/Coding
2. MATLAB
3. Python
4. Robotics
5. Mathematics
6. Zemax
7. The MathWorks Simulink
8. Manufacturing
9. Machine Learning
10. Human Machine Interface Software (HMI)

EMERGING SKILLS

1. Computer Programming/Coding
2. Python
3. Computer Aided Design Software (CAD Software)
4. MATLAB
5. Manufacturing
6. Robotics
7. Ladder Logic
8. The MathWorks Simulink
9. Autodesk AutoCAD
10. Human Machine Interface Software (HMI)



ENVIRONMENTAL SCIENTISTS AND SPECIALISTS, INCLUDING HEALTH

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Environmental Scientists and Specialists, Including Health conduct research and investigations to identify and reduce environmental hazards affecting ecosystems or public health. Data is collected and analyzed from sources such as air, water, soil, and food to assess environmental conditions and pollution levels. Scientific methods are used to evaluate environmental problems and recommend actions to prevent or control environmental risks.



WAGE DISTRIBUTION

	Entry	Median	Experienced
Environmental Scientists and Specialists	\$24.48	\$35.54	\$45.46

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
Bachelor's degree	None	None

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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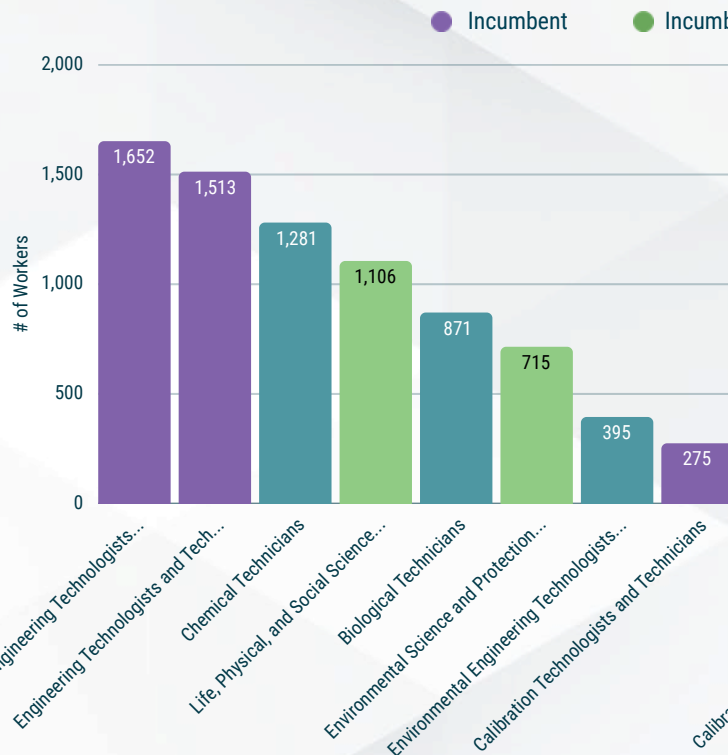
TOP POSTED EMPLOYERS

Ordered by frequency of postings:

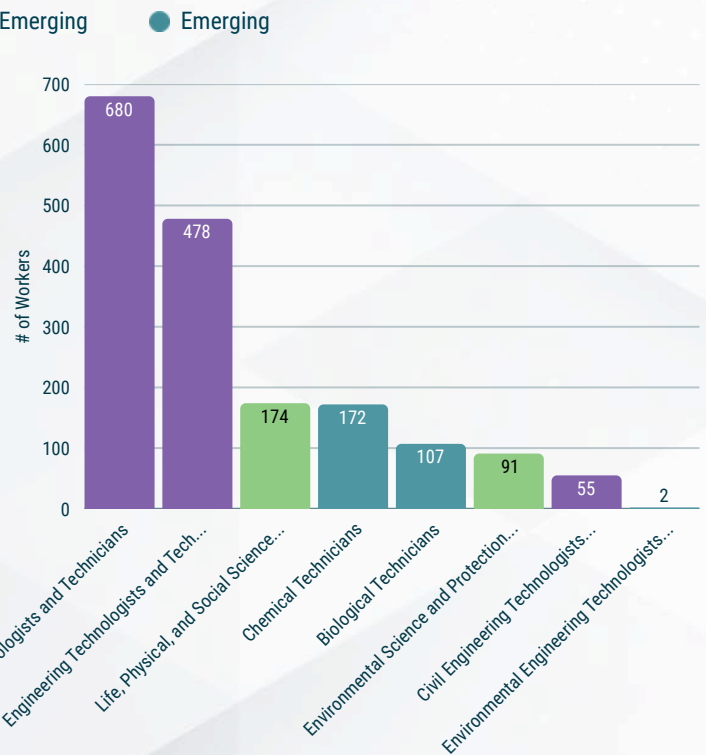
- Fishbeck
- City of Detroit
- Tetra Tech
- Barr Engineering Co.
- Stantec
- AECOM
- CDM Smith
- Arcadis
- GHD
- LimnoTech

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS



NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

Emerging and incumbent skills data come from “hard skills” listed in job postings for specific occupations. Emerging skills are based on postings from top companies focused on electric vehicle (EV) manufacturing. Incumbent skills are based on postings from top mobility companies across all technology types.

INCUMBENT SKILLS

1. Microsoft Office
2. Manufacturing
3. Microsoft Excel
4. Microsoft PowerPoint
5. Statistical Analysis
6. Microsoft Outlook
7. Microsoft Word
8. Report Writing/Report Preparation
9. Teaching/Training, Job
10. Agile

EMERGING SKILLS

1. Hazardous Materials Safety & Handling
2. Microsoft Office
3. Hazardous Waste Operations and Emergency Response Standard
4. Internal Auditing
5. Presentation Software
6. Word Processing
7. Manufacturing
8. Microsoft Excel
9. Quality Management
10. Risk Management



FIRST-LINE SUPERVISORS OF MECHANICS, INSTALLERS, AND REPAIRERS

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

First-Line Supervisors of Mechanics, Installers, and Repairers oversee and coordinate the work of mechanics, installers, and repair technicians. Tasks are assigned, work progress is monitored, and repairs and installations are completed safely and efficiently. Technical guidance is provided to workers, and communication with customers may occur regarding recommended services or repairs. This role supports quality work and smooth daily operations.



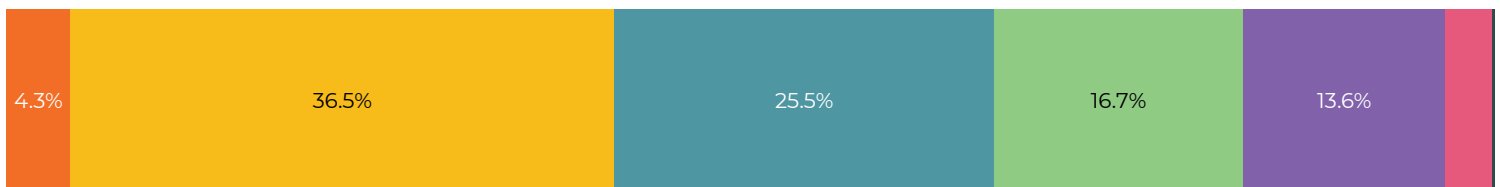
WAGE DISTRIBUTION

	Entry	Median	Experienced
First-Line Supervisors of Mechanics, Installers, and Repairer	\$25.63	\$38.13	\$46.21

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
High school diploma or equivalent	None	Less than 5 years

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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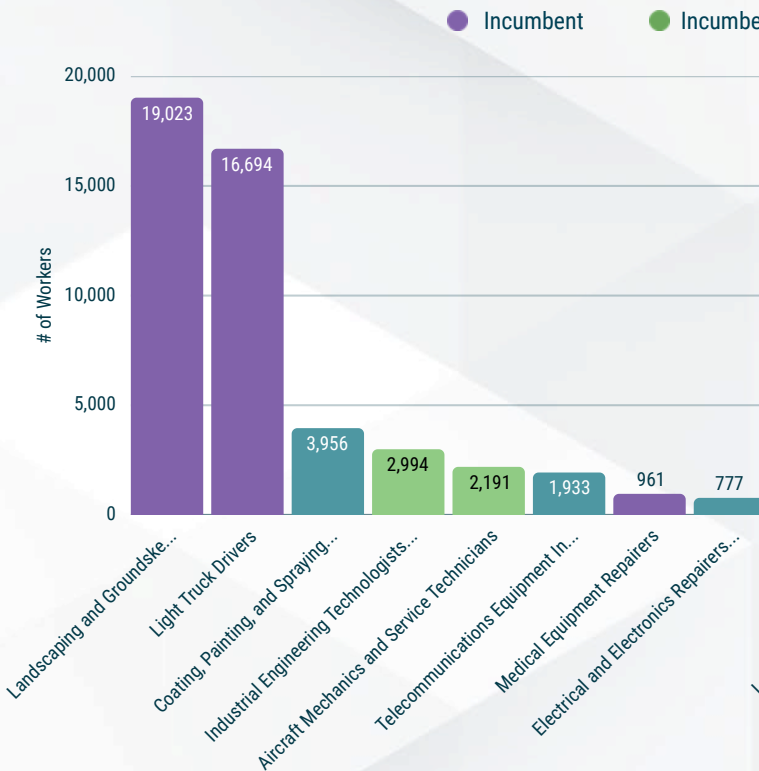
TOP POSTED EMPLOYERS

Ordered by frequency of postings:

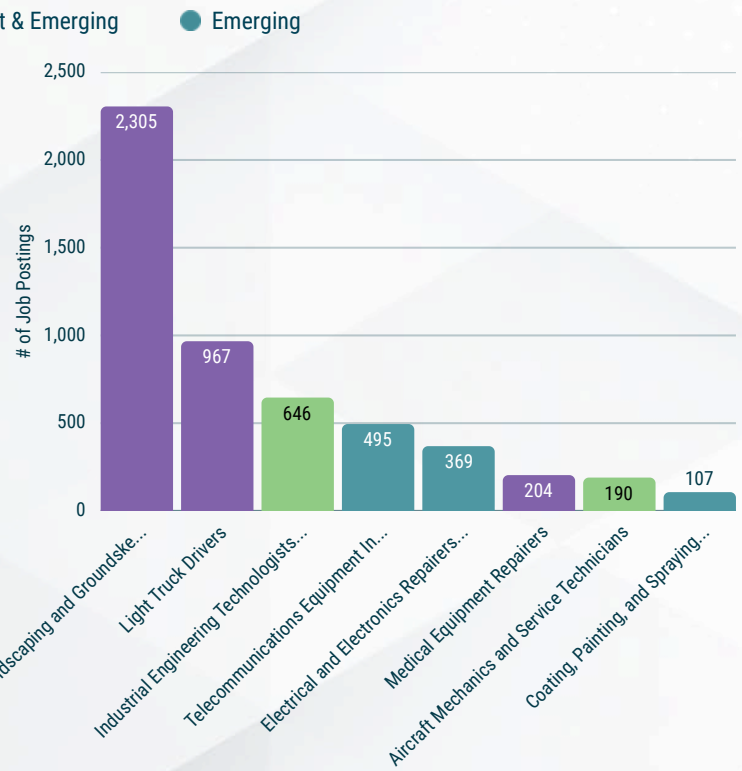
- Aerotek
- Aramark
- Edward Rose & Sons
- Ford
- CBRE
- General Motors
- Mavis Tire Supply
- Confidential
- JLL
- City of Detroit

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS



NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

Emerging and incumbent skills data come from “hard skills” listed in job postings for specific occupations. Emerging skills are based on postings from top companies focused on electric vehicle (EV) manufacturing. Incumbent skills are based on postings from top mobility companies across all technology types.

INCUMBENT SKILLS

1. Microsoft Office
2. Microsoft Excel
3. Manufacturing
4. Microsoft PowerPoint
5. Microsoft Outlook
6. Maintenance
7. Lean Six Sigma
8. Maximo
9. Asset Management
10. HVAC Systems

EMERGING SKILLS

1. Microsoft Office
2. Manufacturing
3. Lean Manufacturing
4. Microsoft Excel
5. Maintenance
6. Microsoft PowerPoint
7. Reading Schematics
8. Teaching/Training, Job
9. Microsoft Outlook
10. Welding



FIRST-LINE SUPERVISORS OF PRODUCTION AND OPERATING WORKERS

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

First-Line Supervisors of Production and Operating Workers oversee and coordinate the daily activities of employees involved in manufacturing and production operations. Tasks are assigned, performance is monitored, and work is completed safely, efficiently, and according to quality standards. Training is provided to workers, and production goals are communicated from management to frontline staff to support smooth operations.



WAGE DISTRIBUTION

	Entry	Median	Experienced
First-line supervisors of Production and Operating workers	\$23.36	\$32.61	\$40.28

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
High school diploma or equivalent	None	Less than 5 years

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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TOP POSTED EMPLOYERS

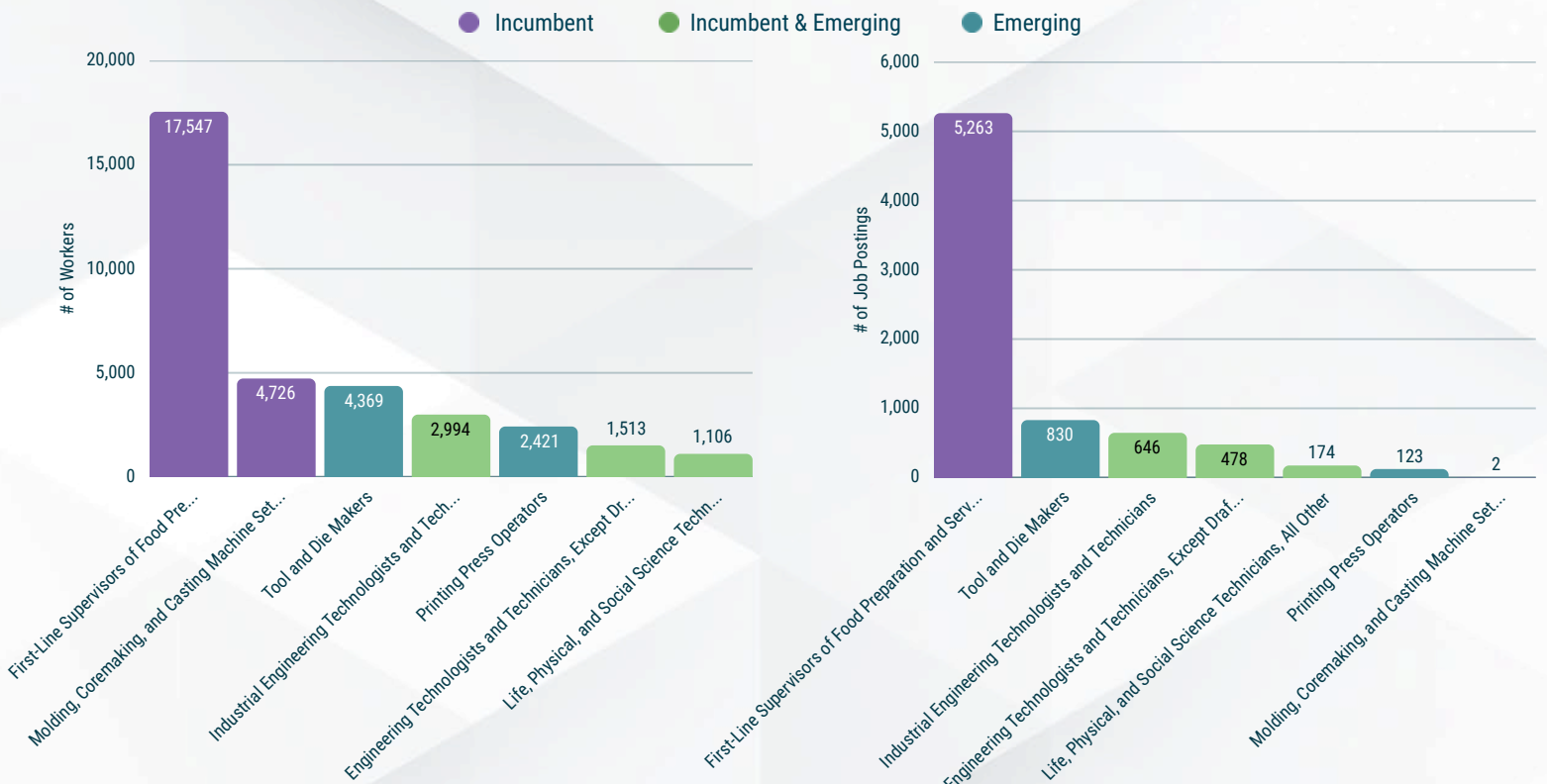
Ordered by frequency of postings:

- Aerotek
- General Motors
- Ford
- Ford Motor Company
- RGBSI Jobs
- Nesco Resource, LLC Jobs
- DTE Energy
- The Bartech Group
- Express Employment Professionals
- G-TECH Services, Inc.

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS

NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

Emerging and incumbent skills data come from “hard skills” listed in job postings for specific occupations. Emerging skills are based on postings from top companies focused on electric vehicle (EV) manufacturing. Incumbent skills are based on postings from top mobility companies across all technology types.

INCUMBENT SKILLS

1. Manufacturing
2. Microsoft Excel
3. Microsoft Office
4. Lean Manufacturing
5. Microsoft PowerPoint
6. Lean Six Sigma
7. Microsoft Outlook
8. SAP
9. Microsoft Word
10. Team Leadership

EMERGING SKILLS

1. Microsoft Office
2. Microsoft Excel
3. Manufacturing
4. Lean Manufacturing
5. Microsoft PowerPoint
6. Lean Six Sigma
7. Operations Management
8. Kaizen
9. 5S
10. Microsoft Project



INDUSTRIAL ENGINEERS

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Industrial Engineers design and improve systems that integrate people, materials, information, and equipment to enhance efficiency and cost-effectiveness. Workflows, production methods, and data are analyzed to reduce waste, improve quality, and increase productivity while maintaining safety and performance standards. This occupation is found across manufacturing, healthcare, logistics, and service industries, and may include roles such as industrial engineer, process engineer, manufacturing engineer, or continuous improvement engineer.

13,711
WORKERS
EMPLOYED

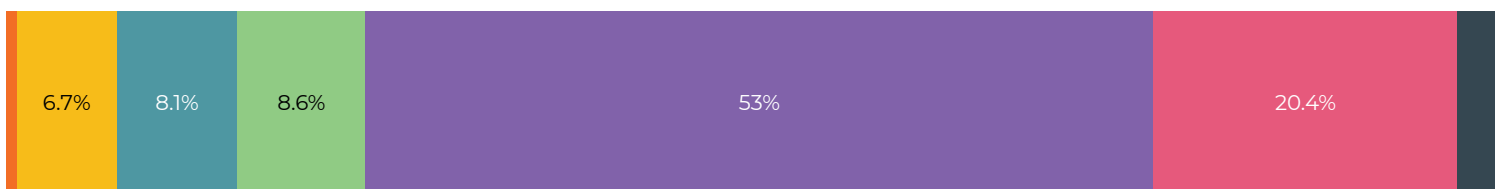
WAGE DISTRIBUTION

	Entry	Median	Experienced
Industrial Engineers	\$35.21	\$48.38	\$57.12

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
Bachelor's degree	None	None

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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TOP POSTED EMPLOYERS

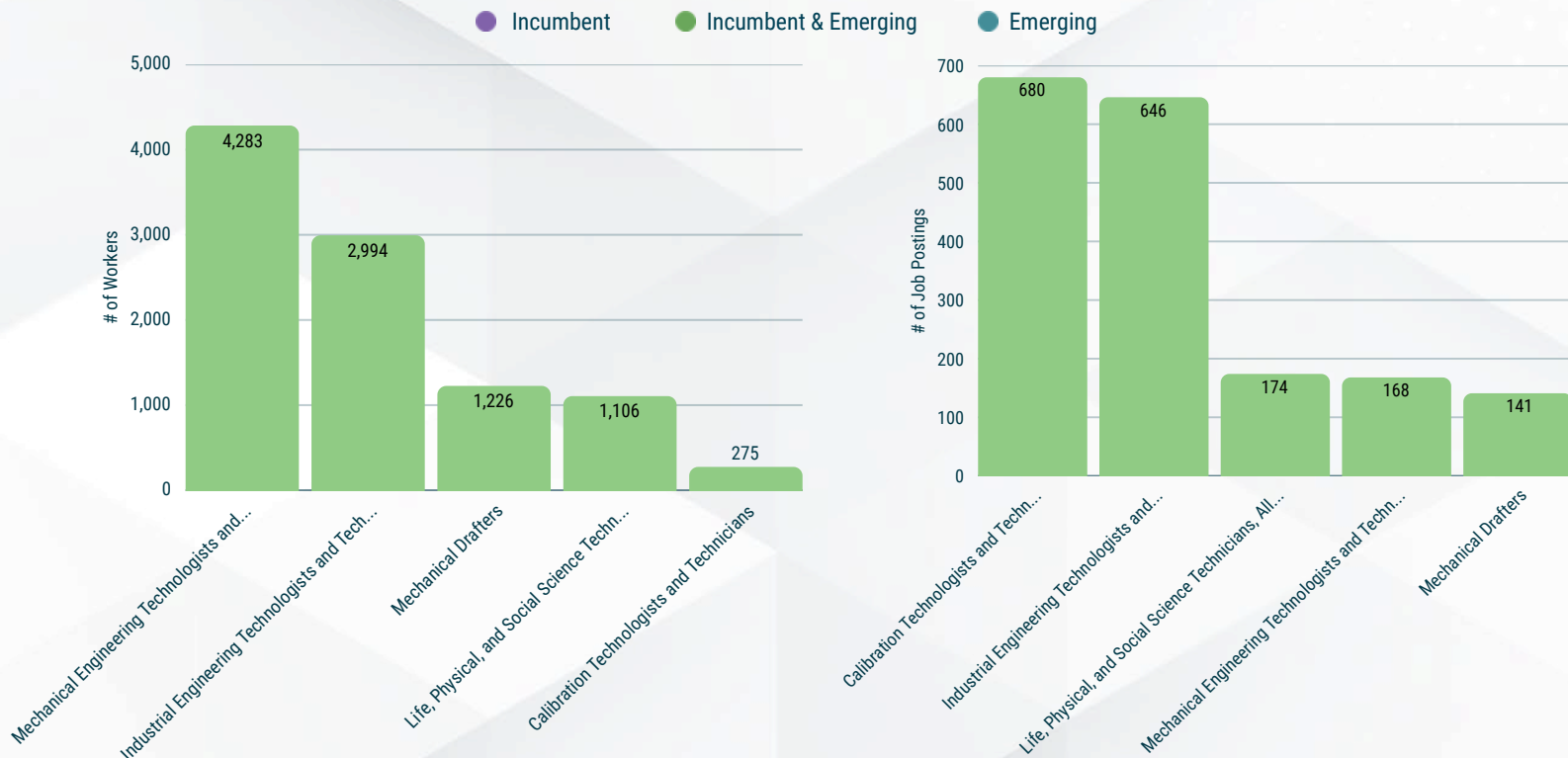
Ordered by frequency of postings:

- General Motors
- Ford
- RGBSI Jobs
- ICONMA
- Ford Motor Company
- Actalent
- Magna International
- The Bartech Group
- G-TECH Services, Inc.
- American Axle & Manufacturing

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS

NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

Emerging and incumbent skills data come from “hard skills” listed in job postings for specific occupations. Emerging skills are based on postings from top companies focused on electric vehicle (EV) manufacturing. Incumbent skills are based on postings from top mobility companies across all technology types.

INCUMBENT SKILLS

1. Manufacturing
2. Microsoft Office
3. Lean Six Sigma
4. Microsoft Excel
5. Mathematics
6. Lean Manufacturing
7. SAP
8. Microsoft PowerPoint
9. Computer Programming/Coding
10. Statistical Process Control (SPC)

EMERGING SKILLS

1. Manufacturing
2. Computer Aided Design Software (CAD Software)
3. Statistical Process Control (SPC)
4. CATIA
5. Python
6. Computer Programming/Coding
7. Lean Six Sigma
8. Autodesk AutoCAD
9. Lean Manufacturing
10. Dassault Systemes SolidWorks Software



INDUSTRIAL MACHINERY MECHANICS

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Industrial Machinery Mechanics install, maintain, and repair factory equipment and industrial machinery to ensure production systems operate safely and efficiently. Mechanical problems are diagnosed, preventive maintenance is performed, and components are repaired or replaced using hand tools, power tools, and technical manuals. Work is commonly performed in manufacturing and industrial facilities and may include roles such as industrial machinery mechanic, maintenance mechanic, millwright, or machinery maintenance technician.



WAGE DISTRIBUTION

	Entry	Median	Experienced
Industrial Machinery Mechanics	\$22.10	\$30.88	\$35.39

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
High school diploma or equivalent	Long-term on-the-job training	None

● < High School ● High School ● Some College ● 2-Year Degree ● 4-Year Degree ● Master's ● PHD



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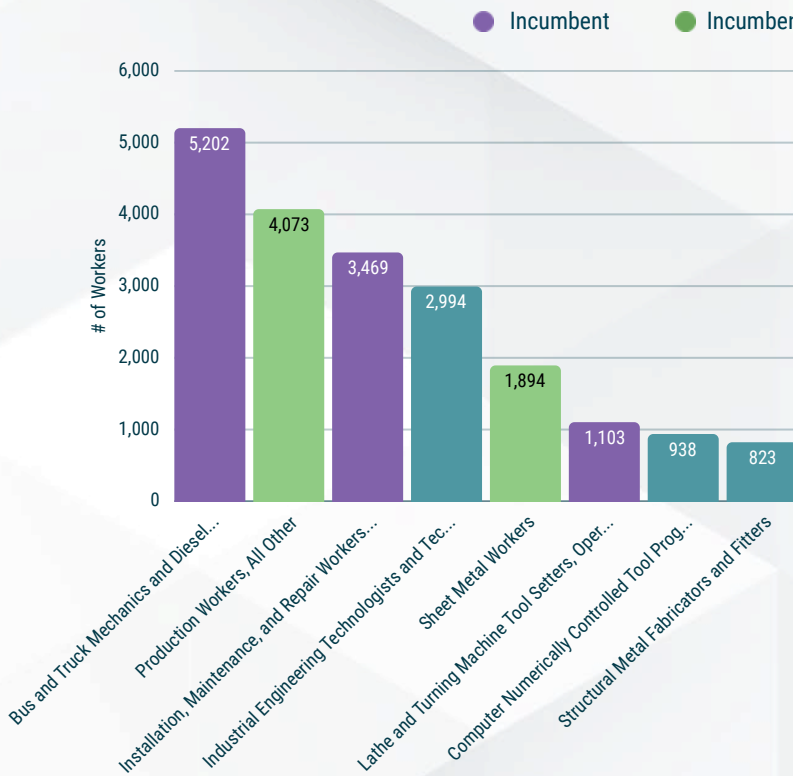
TOP POSTED EMPLOYERS

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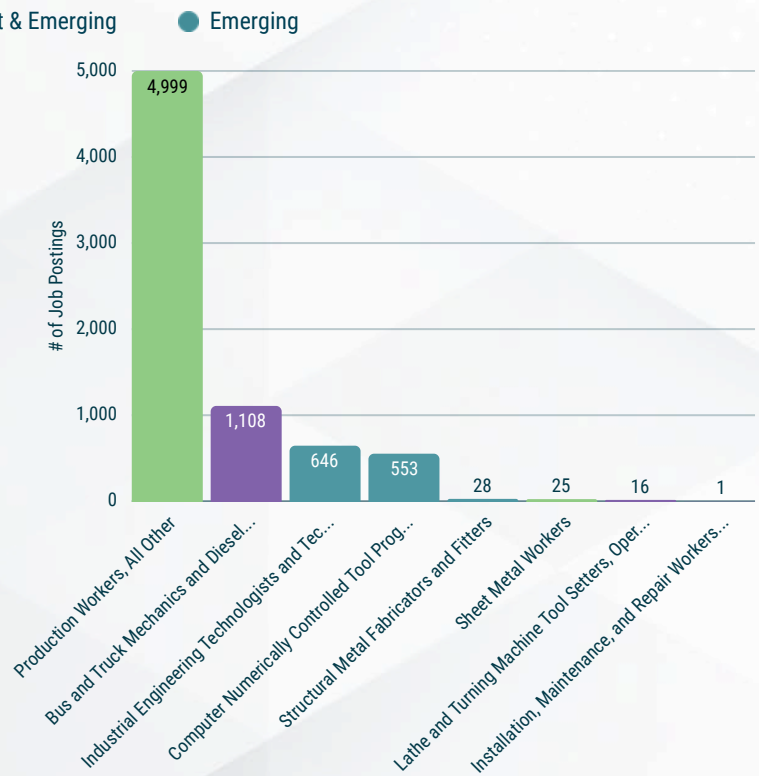
- General Motors
- Express Employment Professionals
- Sentech Services
- Nesco Resource
- Stellantis
- Tyson Foods
- Gonzalez Contract Services
- Cargill
- J.G Kern Enterprises
- Edw. C. Levy Co.

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS



NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

Emerging and incumbent skills data come from “hard skills” listed in job postings for specific occupations. Emerging skills are based on postings from top companies focused on electric vehicle (EV) manufacturing. Incumbent skills are based on postings from top mobility companies across all technology types.

INCUMBENT SKILLS

1. Lathes
2. Generators
3. Milling Machines
4. Power Tools
5. Gauges
6. Soldering
7. Calipers
8. Air Compressors
9. Manufacturing
10. Micrometers

EMERGING SKILLS

1. Reading Schematics
2. Manufacturing
3. Ability to Lift 41-50 lbs.
4. Hydraulic Systems
5. Assembly
6. Height Gauges
7. Lathes
8. Micrometers
9. Drill Presses
10. Personal Computers (PC)



INDUSTRIAL PRODUCTION MANAGERS

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Industrial Production Managers plan, coordinate, and oversee manufacturing and production activities to ensure goods are produced efficiently, safely, and on schedule. Responsibilities include managing production staff, monitoring workflow and output, enforcing quality and safety standards, and coordinating with engineering, maintenance, and supply chain teams to resolve operational issues. Performance metrics, schedules, and resource use are reviewed to support continuous improvement. Employment occurs across manufacturing and industrial production environments.

6,888
WORKERS
EMPLOYED

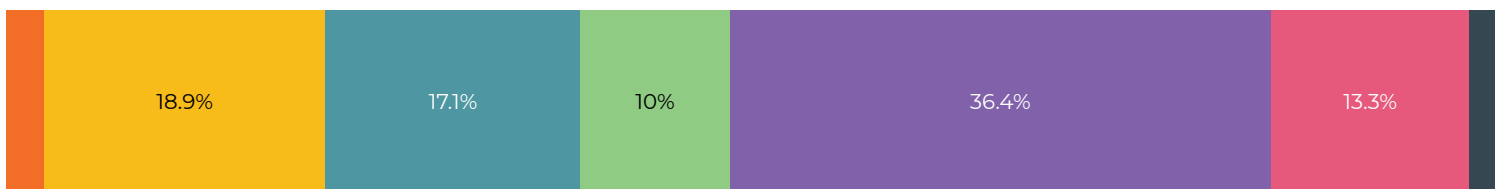
WAGE DISTRIBUTION

	Entry	Median	Experienced
Assemblers and Fabricators, All Other	\$41.38	\$56.70	\$68.02

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
Bachelor's degree	None	5 years or more

● < High School ● High School ● Some College ● 2-Year Degree ● 4-Year Degree ● Master's ● PHD



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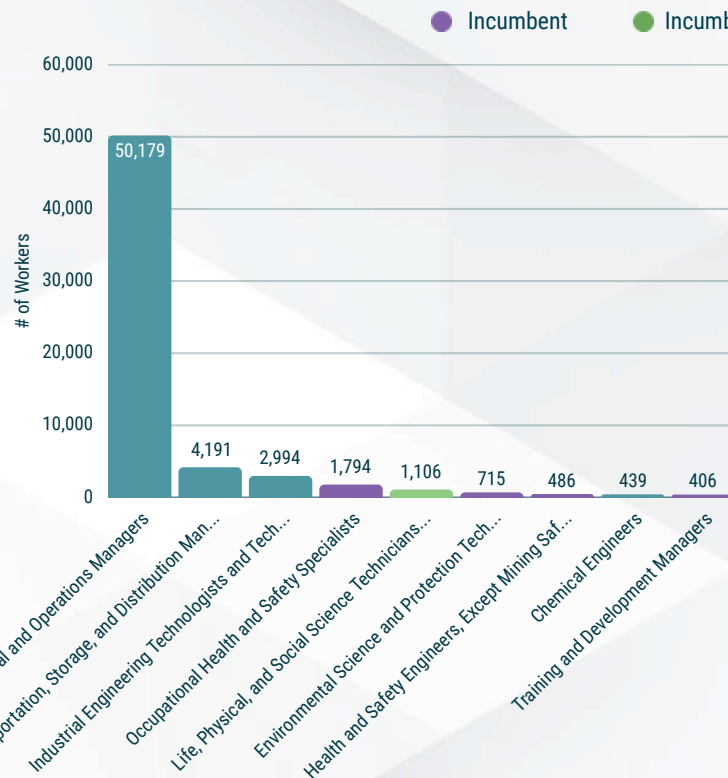
TOP POSTED EMPLOYERS

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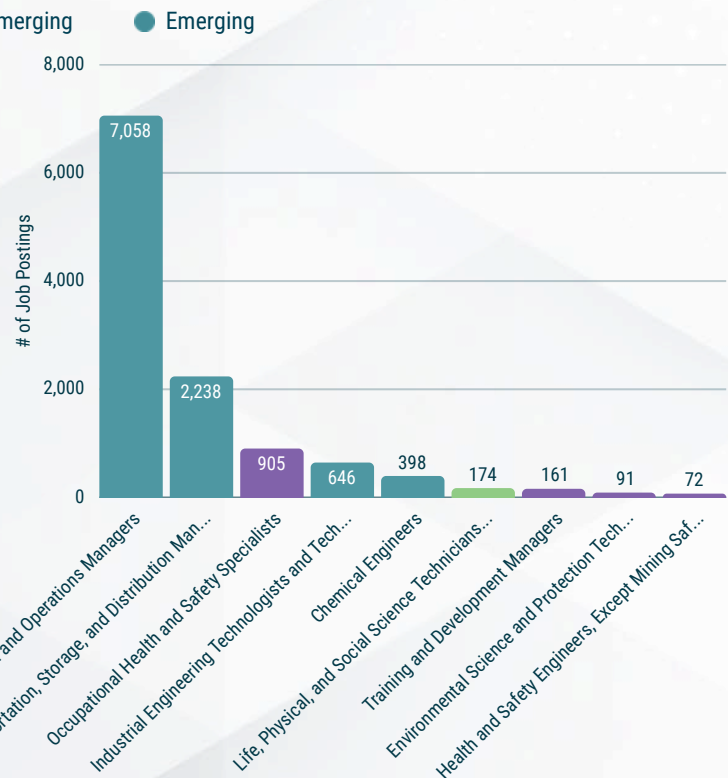
- gpac
- General Motors
- Express Employment Professionals
- Confidential
- Faurecia
- DTE Energy
- Dana Incorporated
- Kelly
- CyberCoders
- Lear Corporation

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS



NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

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INCUMBENT SKILLS

1. Manufacturing
2. Lean Six Sigma
3. Microsoft Office
4. Microsoft Excel
5. Lean Manufacturing
6. Microsoft PowerPoint
7. Statistics
8. Quality Management
9. Corrective Action
10. Internal Auditing

EMERGING SKILLS

1. Manufacturing
2. Microsoft Office
3. Lean Manufacturing
4. Microsoft Excel
5. Microsoft PowerPoint
6. Inventory Control
7. Operations Management
8. Personal Computers (PC)
9. Lean Six Sigma
10. New Product Development (NPD)



INSPECTORS, TESTERS, SORTERS, SAMPLERS AND WEIGHERS

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Inspectors, Testers, Sorters, Samplers, and Weighers examine products, materials, and components to ensure quality, safety, and performance standards are met. Work includes measuring, testing, inspecting, sorting, sampling, and weighing items to identify defects or variations from specifications. Inspection results are recorded, and nonconforming products are removed or flagged. Precision instruments and testing equipment are commonly used. Employment is found in manufacturing, logistics, food processing, and laboratory settings.

15,132
WORKERS
EMPLOYED

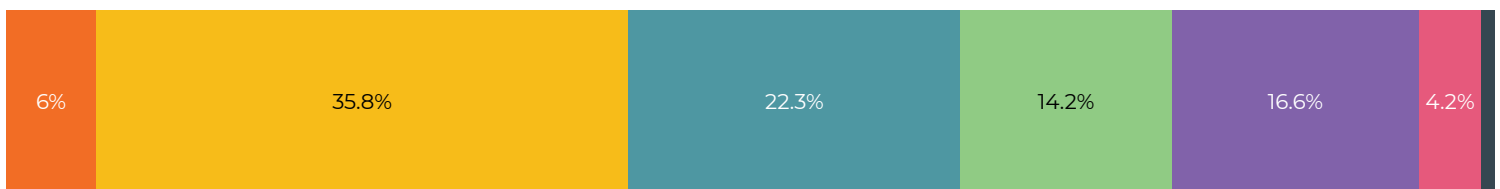
WAGE DISTRIBUTION

	Entry	Median	Experienced
Inspectors, Testers, Sorters, Samplers and Weighers	\$16.48	\$20.73	\$24.94

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
High school diploma or equivalent	Moderate-term on-the-job training	None

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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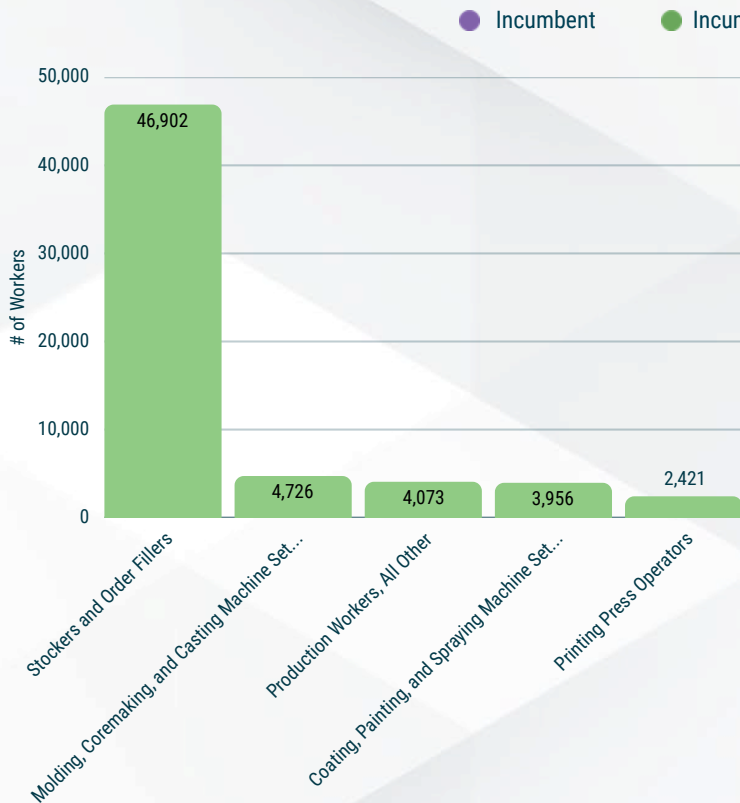
TOP POSTED EMPLOYERS

Ordered by frequency of postings:

- TRIGO Global Quality Solutions
- Express Employment Professionals
- Trillium Staffing
- Workbox Staffing
- Nesco Resource, LLC Jobs
- Kelly
- Aerotek
- Qualified Staffing
- Cintas
- ResourceMFG

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS



NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

Emerging and incumbent skills data come from “hard skills” listed in job postings for specific occupations. Emerging skills are based on postings from top companies focused on electric vehicle (EV) manufacturing. Incumbent skills are based on postings from top mobility companies across all technology types.

INCUMBENT SKILLS

1. Micrometers
2. Microsoft Office
3. SAP
4. Manufacturing
5. Dial Indicators
6. Mathematics
7. Using Ladders
8. Microsoft Excel
9. Gauges
10. Assembly

EMERGING SKILLS

1. Microsoft Excel
2. Microsoft Outlook
3. Manufacturing
4. Microsoft Office
5. Ability to Lift 21-30 lbs.
6. Microsoft PowerPoint
7. Gauges
8. Micrometers
9. Tape Measures
10. InnovMetric PolyWorks



LABORERS AND FREIGHT, STOCK, AND MATERIAL MOVERS, HAND

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Laborers and Freight, Stock, and Material Movers, Hand move materials, products, and equipment within warehouses, factories, distribution centers, and worksites. Tasks include loading and unloading goods, stacking and organizing materials, transporting items by hand or with carts, and preparing shipments for storage or delivery. Work activities support production, shipping, and inventory operations while following safety procedures. Employment is common in manufacturing, logistics, warehousing, and transportation settings.

37,324
WORKERS
EMPLOYED

WAGE DISTRIBUTION

	Entry	Median	Experienced
Laborers and Freight, Stock, and Material Movers, Hand	\$16.03	\$19.04	\$21.88

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
None	Short-term on-the-job training	None

● < High School ● High School ● Some College ● 2-Year Degree ● 4-Year Degree ● Master's ● PHD



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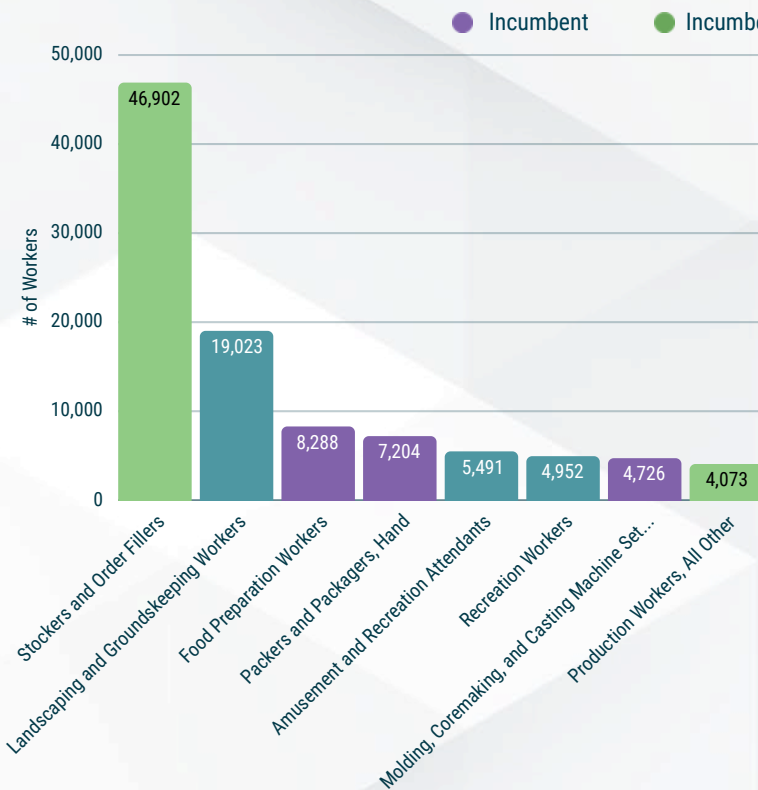
TOP POSTED EMPLOYERS

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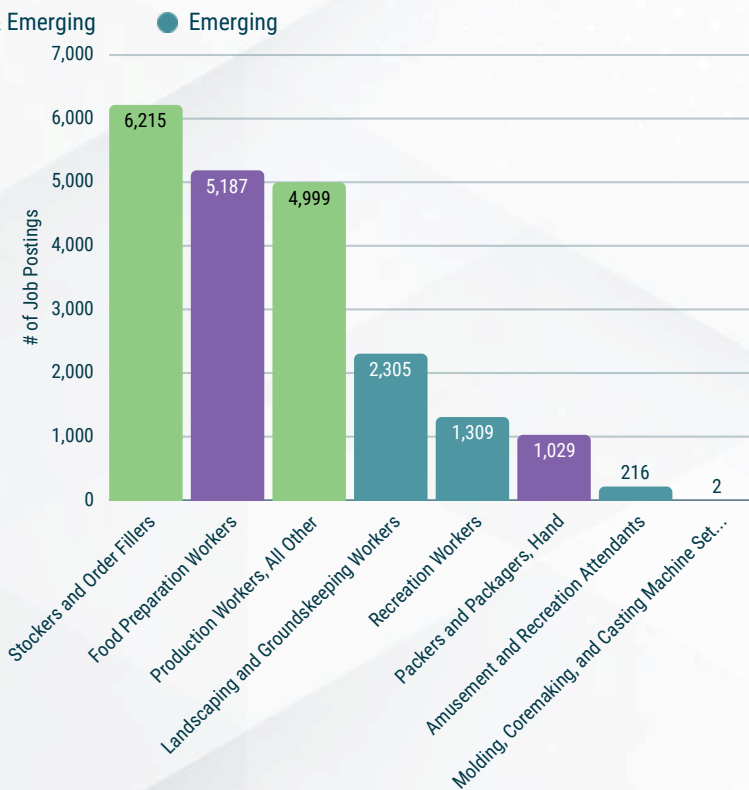
- Express Employment Professionals
- Aerotek
- FedEx
- Workbox Staffing
- UPS
- United Parcel Service
- Nesco Resource, LLC Jobs
- ResourceMFG
- Qualified Staffing
- Kelly

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS



NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

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INCUMBENT SKILLS

1. Microsoft Office
2. Forklifts
3. Ability to Lift 31-40 lbs.
4. SAP
5. Overhead Cranes
6. Manufacturing
7. Inventory Control
8. Microsoft Excel
9. Hand Tools
10. Reach Trucks

EMERGING SKILLS

1. Ability to Lift 41-50 lbs.
2. Microsoft Excel
3. Forklifts
4. Microsoft Office
5. Manufacturing
6. Ability to Lift 51-100 lbs.
7. Pallet Jacks
8. Tuggers
9. Microsoft Outlook
10. Material Handling



MACHINISTS

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Machinists set up and operate machine tools to produce precision metal parts and components. Manual and computer-controlled equipment, such as lathes, milling machines, grinders, and CNC machines, is used to cut, shape, and finish materials based on blueprints and technical specifications. Tool selection, operation monitoring, accuracy adjustments, and inspection of finished parts support quality standards. Employment occurs in manufacturing settings including automotive, aerospace, and advanced manufacturing.

**10,884
WORKERS
EMPLOYED**

WAGE DISTRIBUTION

	Entry	Median	Experienced
Machinists	\$18.66	\$24.56	\$29.44

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
High school diploma or equivalent	Long-term on-the-job training	None

● < High School ● High School ● Some College ● 2-Year Degree ● 4-Year Degree ● Master's ● PHD



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TOP POSTED EMPLOYERS

Ordered by frequency of postings:

- Aerotek
- Express Employment Professionals
- Sentech Services
- Triumph Group
- Spark Talent Inc
- Nesco Resource, LLC Jobs
- Qualified Staffing
- Workbox Staffing
- FactoryFix
- Trillium Staffing

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS

NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

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INCUMBENT SKILLS

EMERGING SKILLS

1. Lathes
2. Gauges
3. Micrometers
4. Milling Machines
5. Computerized Numerical Control Software (CNC Software)
6. Manufacturing
7. Mathematics
8. Drill Presses
9. Hand Tools
10. Statistical Process Control (SPC)

1. Lathes
2. Microsoft Office
3. Drill Presses
4. Gauges
5. Microsoft Excel
6. Micrometers
7. Dassault Systemes SolidWorks Software
8. Computer Aided Design Software (CAD Software)
9. Ability to Lift 41-50 lbs.
10. Calipers



MAINTENANCE AND REPAIR WORKERS, GENERAL

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Maintenance and Repair Workers, General perform routine maintenance and repairs on machinery, equipment, and building systems to ensure safe and efficient operation. Work includes inspecting equipment, diagnosing problems, replacing or adjusting parts, and using hand and power tools to complete repairs. Electrical, mechanical, plumbing, or HVAC systems may be maintained, with documentation of maintenance activities. Employment spans manufacturing, commercial, healthcare, and residential settings.



WAGE DISTRIBUTION

	Entry	Median	Experienced
Maintenance and Repair workers, general	\$16.54	\$22.49	\$26.97

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
High school diploma or equivalent	Moderate-term on-the-job training	None

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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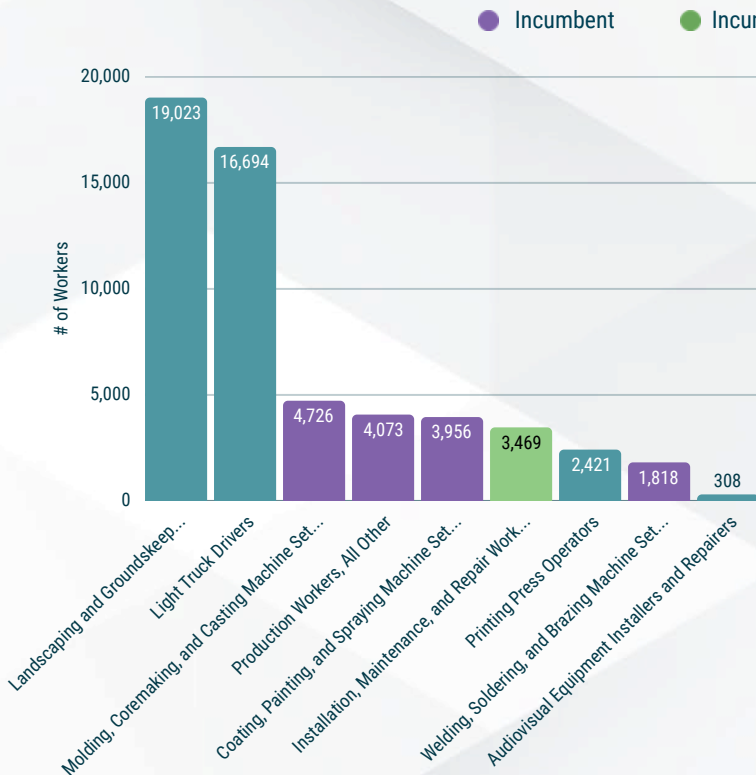
TOP POSTED EMPLOYERS

Ordered by frequency of postings:

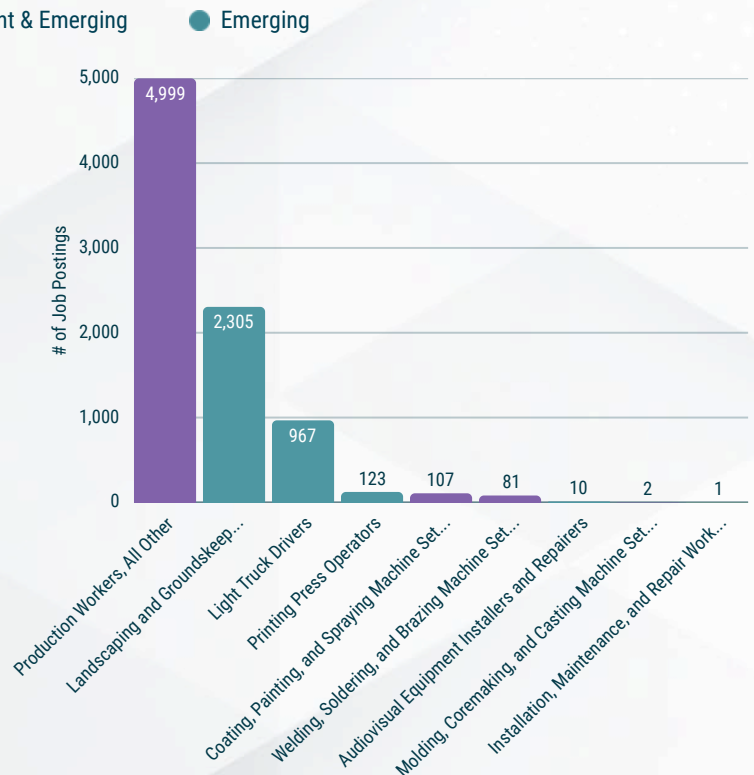
- Aerotek
- YES Communities
- Express Employment Professionals
- Edward Rose & Sons
- Nesco Resource, LLC Jobs
- CBRE
- JLL
- Village Green
- Manpower Group
- Qualified Staffing

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS



NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

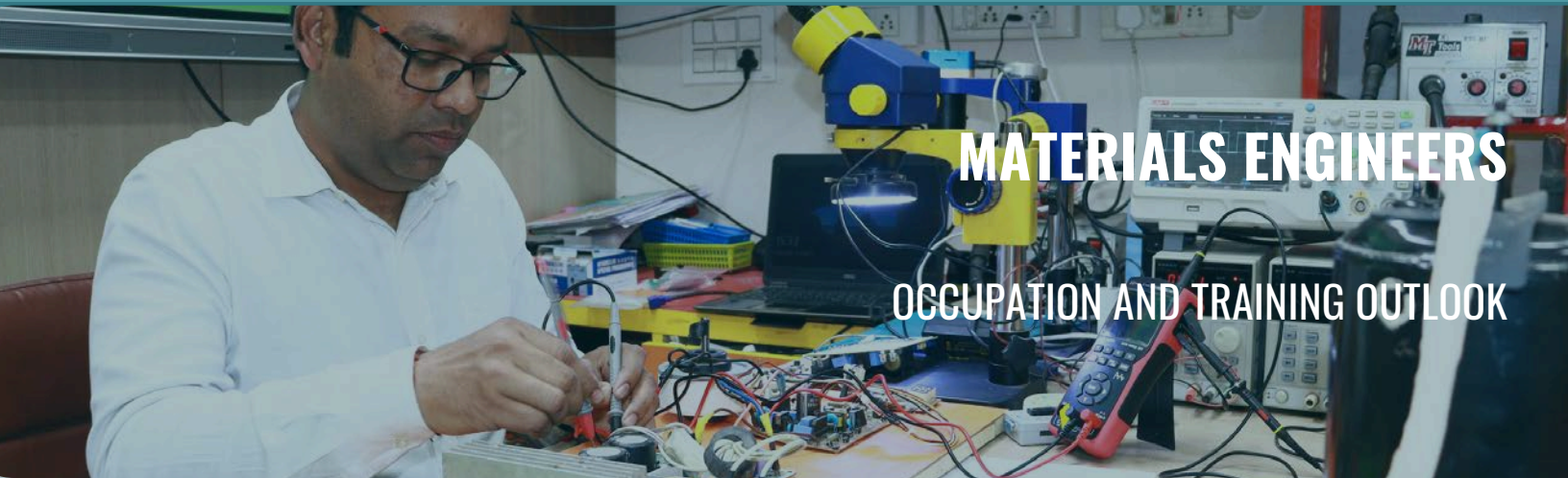
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INCUMBENT SKILLS

1. Manufacturing
2. Microsoft Office
3. Power Tools
4. Reading Schematics
5. Welding
6. Plumbing
7. Microsoft Excel
8. Ability to Lift 31-40 lbs.
9. HVAC Systems
10. Gasoline Engines

EMERGING SKILLS

1. Microsoft Excel
2. Microsoft Office
3. Hand Tools
4. Microsoft PowerPoint
5. Ability to Lift 41-50 lbs.
6. Microsoft Outlook
7. Ability to Lift 51-100 lbs.
8. Report Writing/Report Preparation
9. Manufacturing
10. Reading Schematics



MATERIALS ENGINEERS

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Materials Engineers develop, test, and evaluate materials such as metals, ceramics, plastics, and composites to improve product performance and durability. Material properties are analyzed, materials are recommended for specific applications, and collaboration with manufacturing teams supports design, quality, and safety requirements. Laboratory testing, failure analysis, and process improvement activities are common. Employment occurs in manufacturing, automotive, aerospace, and advanced materials industries.

564
WORKERS
EMPLOYED

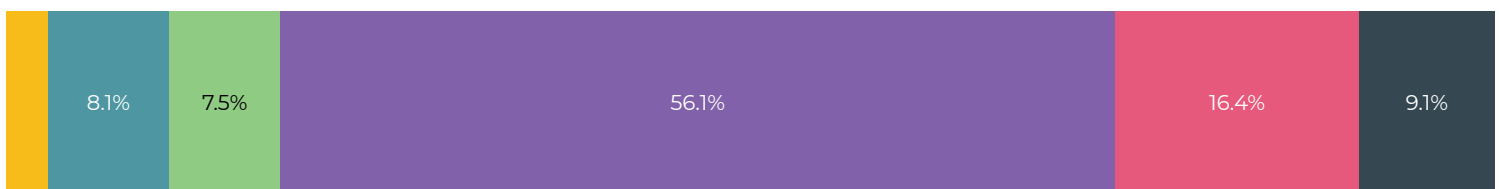
WAGE DISTRIBUTION

	Entry	Median	Experienced
Materials Engineers	\$35.18	\$48.57	\$56.98

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
Bachelor's degree	None	None

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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TOP POSTED EMPLOYERS

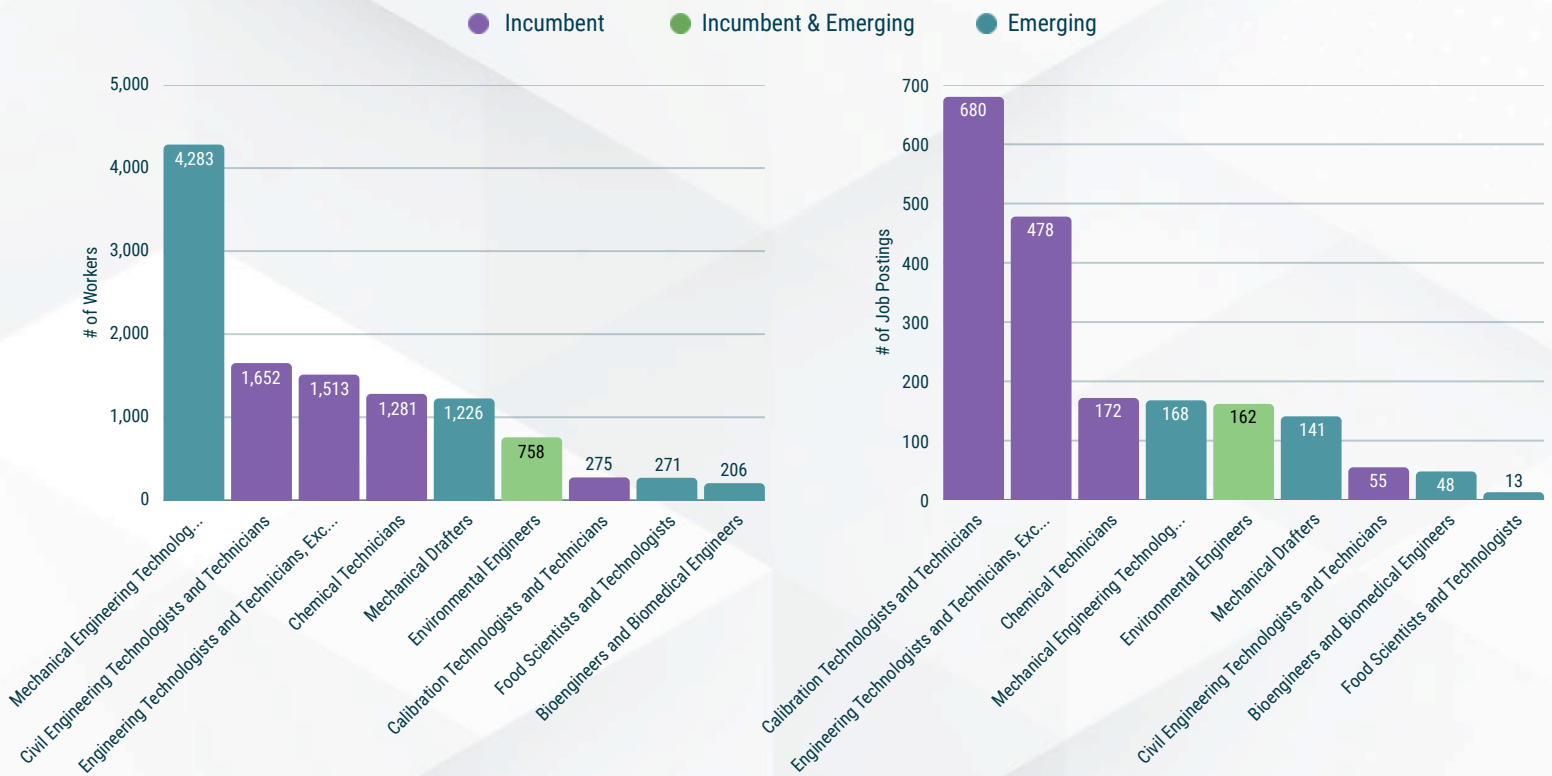
Ordered by frequency of postings:

- General Motors
- Ford Motor Company
- Tenneco Inc.
- Ford
- The Bartech Group
- General Dynamics Land Systems
- American Axle & Manufacturing
- RGBSI Jobs
- EATON
- Kelly

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS

NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

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INCUMBENT SKILLS

1. Manufacturing
2. Mathematics
3. Microsoft Office
4. Microsoft Excel
5. Process Development
6. Microsoft PowerPoint
7. Microscopes
8. Data Analysis
9. Scanning Electron Microscopes (SEM)
10. Microsoft Word

EMERGING SKILLS

1. Manufacturing
2. Process Development
3. Fourier Transform Infrared Spectroscopy (FTIR)
4. Scanning Electron Microscopes (SEM)
5. Dynamic Mechanical Analyzers (DMA)
6. Ability to Lift 41-50 lbs.
7. Assembly
8. Hand Tools
9. Acetylene Torches
10. Autodesk AutoCAD



MECHANICAL ENGINEERS

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Mechanical Engineers design, develop, and test mechanical systems and components used in products and manufacturing processes. Principles of mechanics, materials, and energy are applied to improve equipment, tools, and machines. Responsibilities include reviewing technical drawings, analyzing performance data, and collaborating with production teams to meet safety, quality, and efficiency standards. Employment spans manufacturing, automotive, aerospace, and advanced engineering industries.



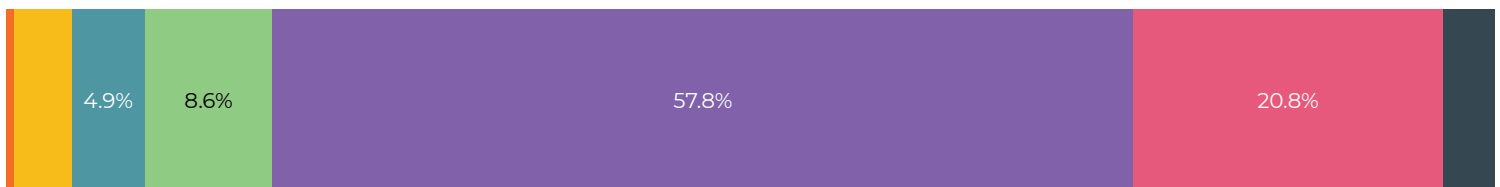
WAGE DISTRIBUTION

	Entry	Median	Experienced
Mechanical Engineers	\$34.84	\$48.01	\$56.67

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
Bachelor's degree	None	None

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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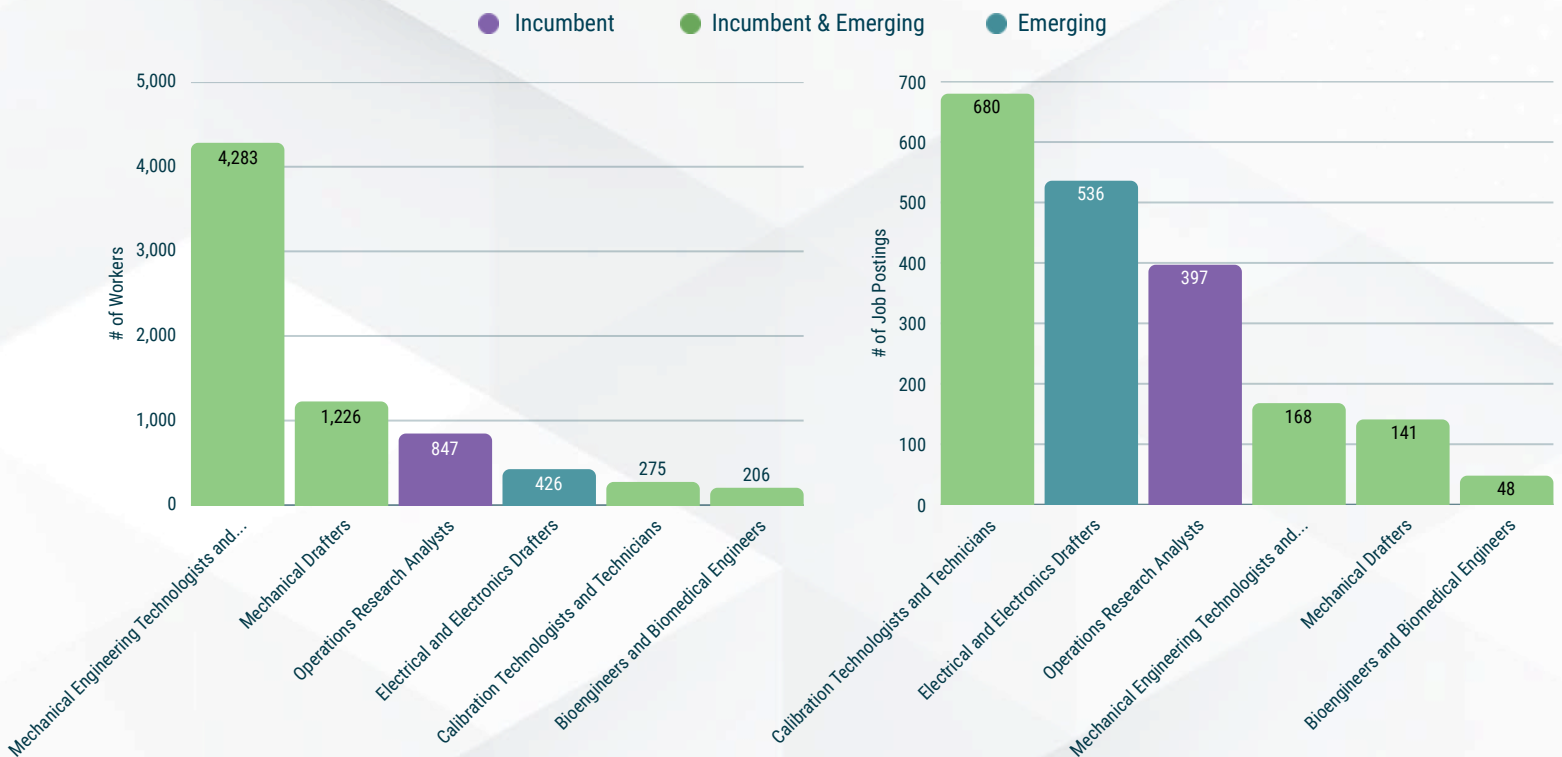
Ordered by frequency of postings:

- Express Employment Professionals
- ResourceMFG
- Workbox Staffing
- Qualified Staffing
- Aerotek
- Hickman Assembly
- ASSEMBLERS, INC.
- Kelly
- Manpower Group
- National Assemblers

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS

NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

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INCUMBENT SKILLS

- Computer Aided Design Software (CAD Software)
- Mathematics
- Mechanical Design
- Manufacturing
- Microsoft Office
- Siemens Teamcenter
- CATIA
- Finite Element Analysis Software (FEA Software)
- Dassault Systemes SolidWorks Software
- Microsoft Excel

EMERGING SKILLS

- Computer Aided Design Software (CAD Software)
- Mechanical Design
- CATIA
- Manufacturing
- CATIA V5
- Computer-aided engineering software (CAE software)
- MATLAB
- Finite Element Analysis Software (FEA Software)
- Python
- Dassault Systemes SolidWorks Software



MULTIPLE MACHINE TOOL SETTERS, OPERATORS AND TENDERS, METAL AND PLASTIC

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Multiple Machine Tool Setters, Operators, and Tenders set up and operate more than one type of machine tool to produce metal or plastic parts. Tasks include loading materials, adjusting machine settings, monitoring operations, and removing finished products while maintaining quality and safety standards. Measuring tools are used to verify accuracy, and basic maintenance or troubleshooting may be performed. Employment is concentrated in manufacturing environments supporting high-volume production.

3,661
WORKERS
EMPLOYED

WAGE DISTRIBUTION

Multiple Machine tool setters, Operators and tenders, Metal and plastic

Entry	Median	Experienced
\$17.61	\$20.54	\$25.57

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
High school diploma or equivalent	Moderate-term on-the-job training	None

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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TOP POSTED EMPLOYERS

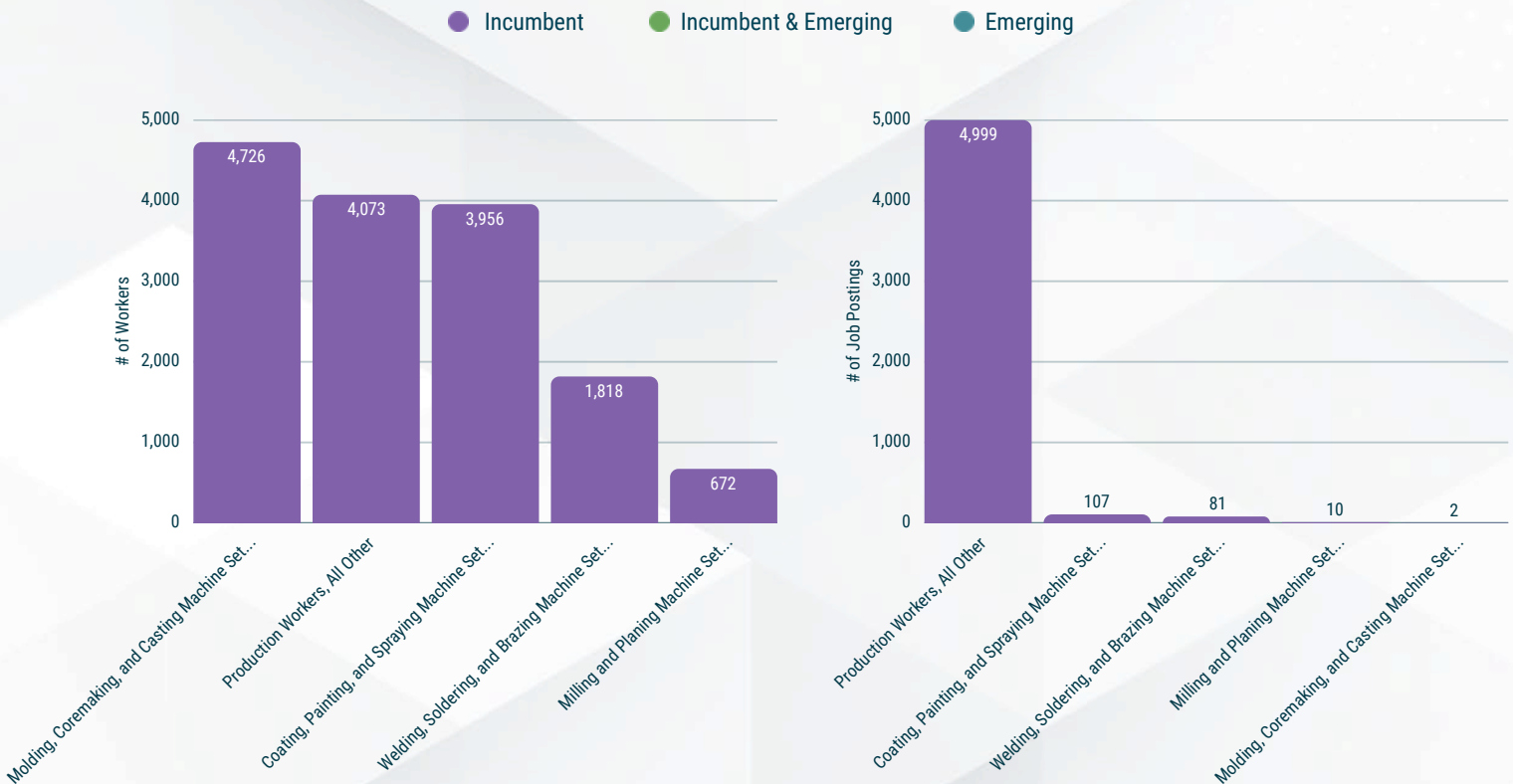
Ordered by frequency of postings:

- Express Employment Professionals
- Qualified Staffing
- Sentech Services
- Nesco Resource, LLC Jobs
- GEDIA USA
- Nesco Resource
- ResourceMFG
- Supreme Gear Company
- BMT Aerospace
- Flexible Metal

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS

NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

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INCUMBENT SKILLS

EMERGING SKILLS

1. CGTech Vericut
2. Mastercam
3. CATIA V5
4. Computer Aided Design Software (CAD Software)
5. Gauges
6. Manufacturing
7. Process Development
8. Simulation Software
9. Unigraphics
10. Dial Indicators

1. Micrometers
2. Blueprint Reading
3. CAD/CAM
4. CATIA
5. Grinding Machines
6. Lathes
7. Milling Machines
8. SAP
9. Chop Saws
10. Shims



SEMICONDUCTOR PROCESSING TECHNICIANS

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Semiconductor Processing Technicians operate and monitor equipment used to manufacture semiconductor wafers and electronic components. Detailed process instructions guide material loading, machine adjustments, and inspection of products for defects using precision tools and microscopes. Production results are documented, basic troubleshooting is performed, and cleanroom and safety standards are maintained. Employment is primarily within advanced manufacturing environments supporting microelectronics production.

164
WORKERS
EMPLOYED

WAGE DISTRIBUTION

	Entry	Median	Experienced
Semiconductor Processing Technicians	\$20.27	\$31.55	\$35.77

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
High school diploma or equivalent	Moderate-term on-the-job training	None

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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TOP POSTED EMPLOYERS

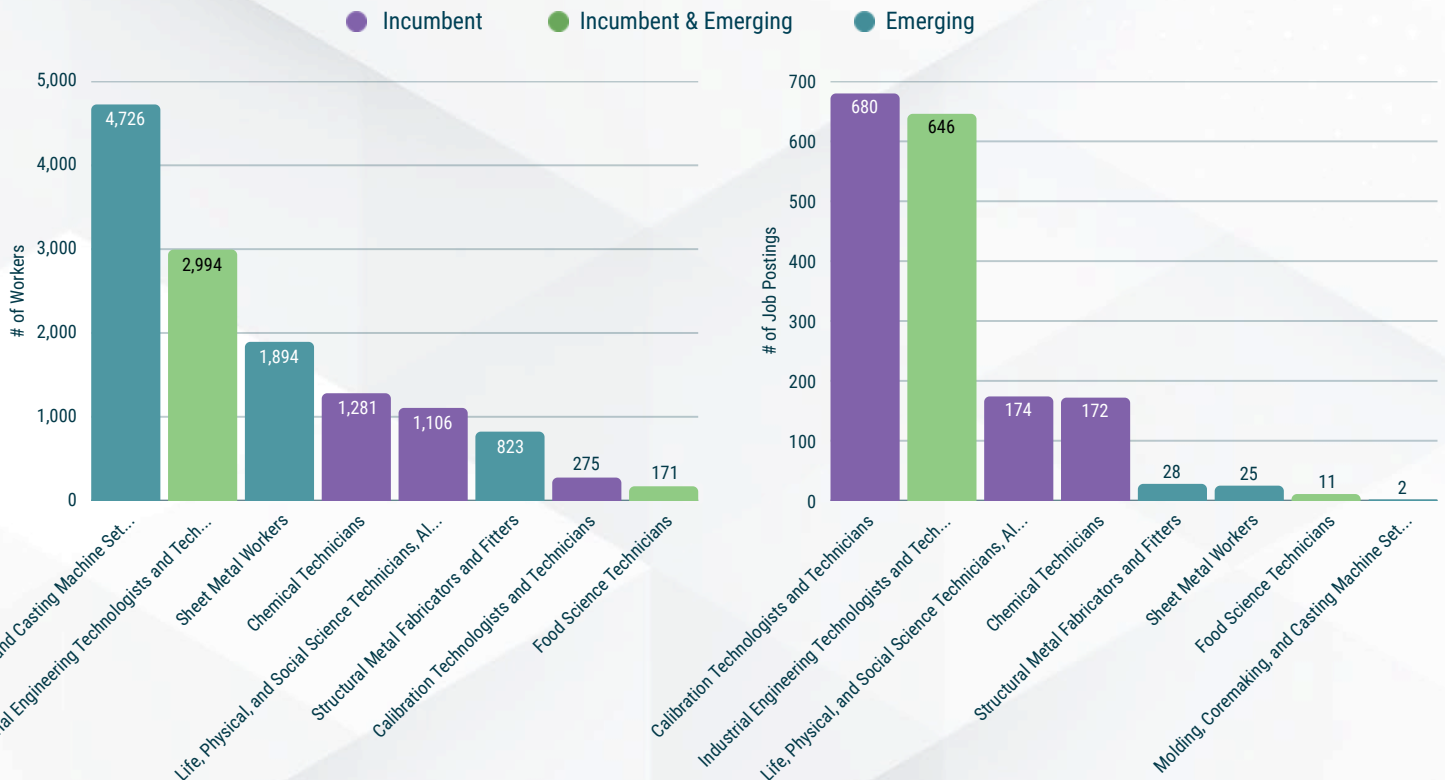
Ordered by frequency of postings:

- MACOM
- General Motors
- Aerotek
- FCA
- Fiskars
- Entegee
- Kelly
- Randstad
- ResourceMFG
- SBT

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS

NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

Emerging and incumbent skills data come from “hard skills” listed in job postings for specific occupations. Emerging skills are based on postings from top companies focused on electric vehicle (EV) manufacturing. Incumbent skills are based on postings from top mobility companies across all technology types.

INCUMBENT SKILLS

1. Manufacturing
2. Radio Frequency (RF)
3. Mathematics
4. Circuits
5. Modeling Software
6. Statistical Process Control (SPC)
7. Microsoft Excel
8. Microsoft Office
9. MATLAB
10. SAP

EMERGING SKILLS

1. Ability to Lift 41-50 lbs.
2. CATIA
3. Computer Aided Design Software (CAD Software)
4. Metal Fabrication
5. Microscopes



SOFTWARE DEVELOPERS

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Software Developers design, build, test, and maintain software applications and systems used across industries. Responsibilities include writing and reviewing code, analyzing business requirements, and collaborating with development teams to deliver reliable and secure software solutions. Ongoing work involves troubleshooting issues, updating existing programs, and documenting technical processes. Employment occurs in technology, manufacturing, automotive, healthcare, finance, and other digitally driven sectors.

**24,155
WORKERS
EMPLOYED**

WAGE DISTRIBUTION

	Entry	Median	Experienced
Software Developers	\$38.14	\$52.11	\$63.56

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
Bachelor's degree	None	None

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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TOP POSTED EMPLOYERS

Ordered by frequency of postings:

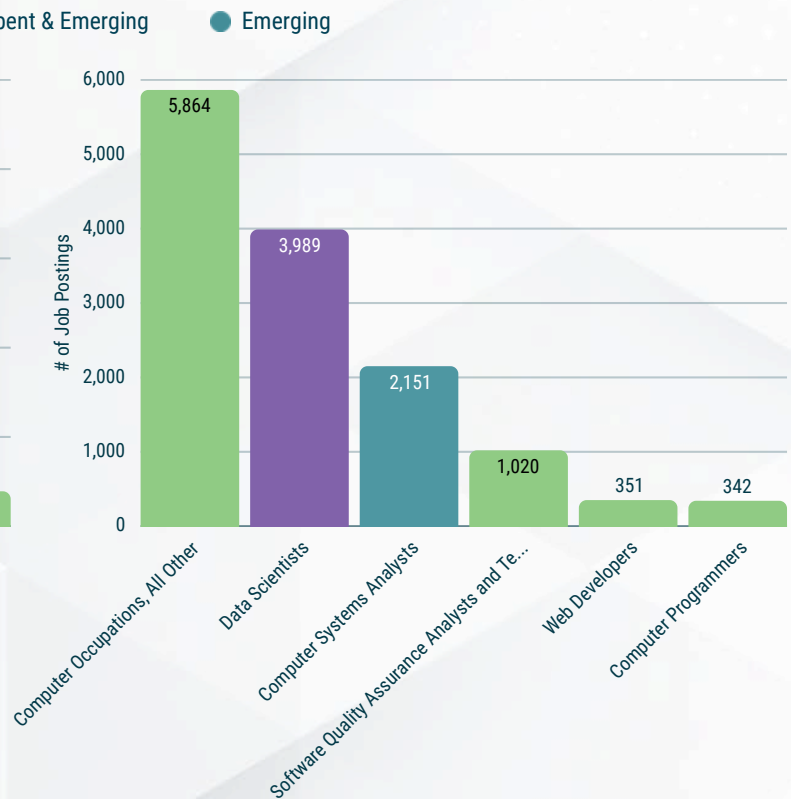
- General Motors
- Ford Motor Company
- V2Soft
- Stefanini
- General Dynamics Information Technology
- Ford
- Recruiting from Scratch
- Deloitte
- Diverse Lynx
- kyyba

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS



NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

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INCUMBENT SKILLS

1. Agile
2. Computer Programming/Coding
3. Java
4. Python
5. Linux
6. Software Development
7. Mathematics
8. Git
9. Atlassian JIRA
10. Amazon Web Services (AWS)

EMERGING SKILLS

1. Python
2. Computer Programming/Coding
3. Linux
4. C++
5. Git
6. Java
7. Structured Query Language (SQL)
8. Docker
9. C
10. Kubernetes



STATIONARY ENGINEERS AND BOILER OPERATORS

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Stationary Engineers and Boiler Operators operate, monitor, and maintain boilers, generators, turbines, and other stationary equipment that provide power, heating, and cooling for buildings or industrial processes. Duties include inspecting systems, adjusting controls, recording operating data, and responding to equipment issues to ensure safe and efficient operation. Routine maintenance and adherence to safety procedures are required. Employment occurs in industrial plants, hospitals, schools, and large commercial facilities.

222
WORKERS
EMPLOYED

WAGE DISTRIBUTION

	Entry	Median	Experienced
Stationary Engineers and Boiler Operators	\$29.74	\$38.17	\$39.79

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
High school diploma or equivalent	Long-term on-the-job training	None

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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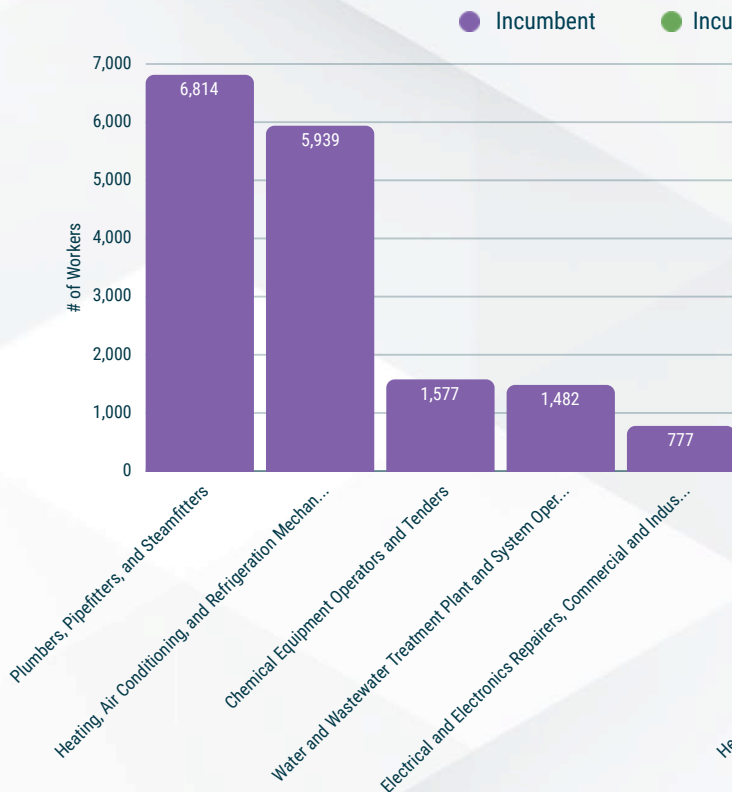
TOP POSTED EMPLOYERS

Ordered by frequency of postings:

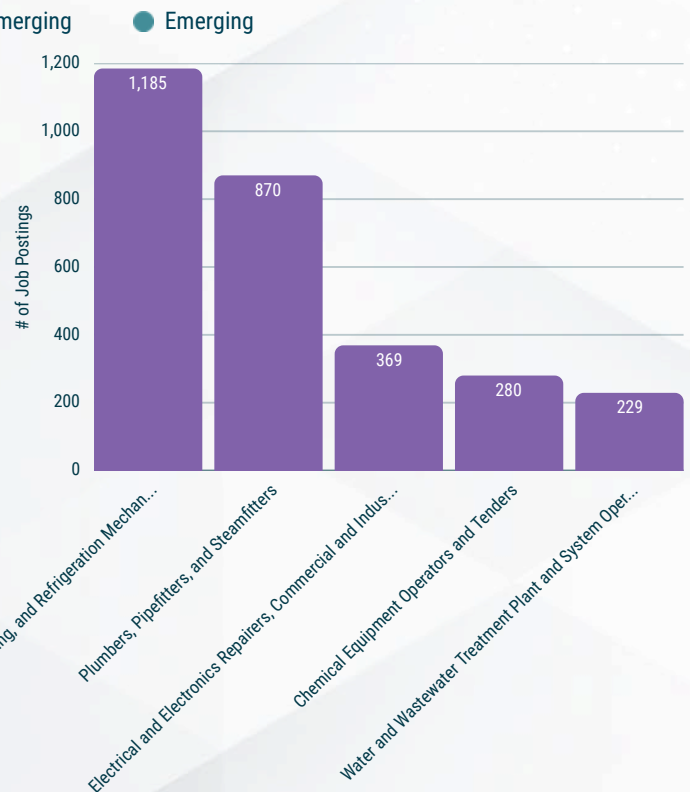
- JLL
- DTE Energy
- McLaren Health Care
- Trinity Health
- Beaumont Health
- University of Michigan
- Oakland University
- City of Dearborn
- Ascension
- Corewell Health

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS



NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

Emerging and incumbent skills data come from “hard skills” listed in job postings for specific occupations. Emerging skills are based on postings from top companies focused on electric vehicle (EV) manufacturing. Incumbent skills are based on postings from top mobility companies across all technology types.

INCUMBENT SKILLS

- | | | | |
|--------------------|--------------------|---------------------|-----------------------|
| 1. Boilers | 6. Plumbing | 11. Evaporators | 16. Pipe Fitting |
| 2. Gauges | 7. Water Softeners | 12. Comparators | 17. Centrifugal Pumps |
| 3. Air Compressors | 8. HVAC Systems | 13. Air Dryers | 18. Fabrication |
| 4. Oil Pumps | 9. Heat Exchangers | 14. Mechanical | 19. Hand Tools |
| 5. Cooling Towers | 10. Manufacturing | 15. Microsoft Excel | 20. Microsoft Office |



TEAM ASSEMBLERS

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Team Assemblers work as part of a production team to assemble products or components according to specifications. Tasks include positioning parts, using hand or power tools, following work instructions, and inspecting finished items to meet quality standards. Rotation across tasks and support of multiple stages of the assembly process may occur, along with maintenance of a clean and safe work area. Employment is common in manufacturing and industrial settings.



WAGE DISTRIBUTION

	Entry	Median	Experienced
Team Assemblers	\$17.44	\$19.50	\$24.35

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
High school diploma or equivalent	Moderate-term on-the-job training	None

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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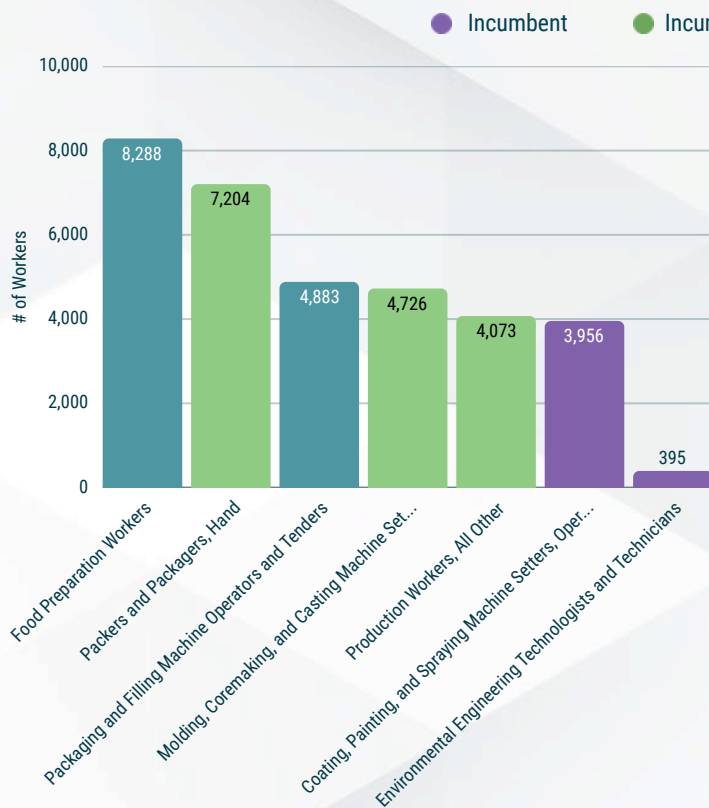
TOP POSTED EMPLOYERS

Ordered by frequency of postings:

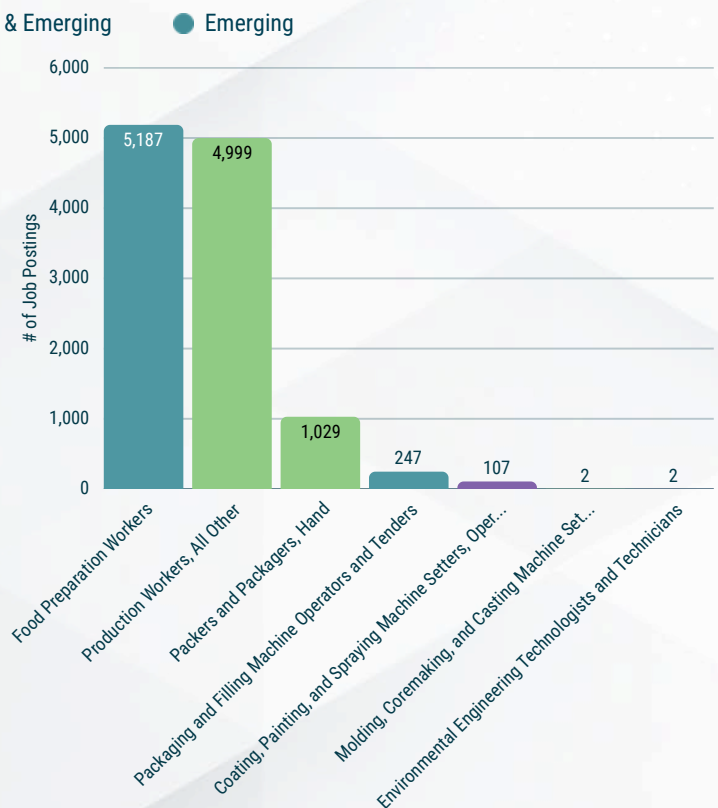
- Adecco USA
- Kelly
- Nesco Resource, LLC Jobs
- Aerotek
- PeopleReady
- Express Employment Professionals
- Qualified Staffing
- Workbox StaffingManpower Group
- Nesco Resource

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS



NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

Emerging and incumbent skills data come from “hard skills” listed in job postings for specific occupations. Emerging skills are based on postings from top companies focused on electric vehicle (EV) manufacturing. Incumbent skills are based on postings from top mobility companies across all technology types.

INCUMBENT SKILLS

1. Manufacturing
2. Mathematics
3. Hand Tools
4. Ability to Lift 31-40 lbs.
5. Microsoft Office
6. Assembly
7. Blueprint Reading
8. Microsoft Excel
9. Microsoft PowerPoint
10. Power Tools

EMERGING SKILLS

1. Assembly
2. Google Calendar
3. Lean Six Sigma
4. Manufacturing



WELDERS, CUTTERS, SOLDERERS AND BRAZERS

OCCUPATION AND TRAINING OUTLOOK

INTRODUCTION

Welders, Cutters, Solderers, and Brazers join, cut, or repair metal parts using welding, soldering, and brazing techniques. Work includes reading blueprints, setting up equipment, and using hand or power tools to fuse metals according to specifications. Finished work is inspected for quality and safety, equipment is maintained, and safety procedures are followed. Employment spans manufacturing, construction, automotive, and industrial environments.

7,474
WORKERS
EMPLOYED

WAGE DISTRIBUTION

	Entry	Median	Experienced
Welders, Cutters, Solderers and Brazers	\$17.98	\$23.11	\$27.23

EDUCATION AND TRAINING REQUIREMENTS

Entry Level Education	On The Job Training	Work Experience
High school diploma or equivalent	Moderate-term on-the-job training	None

● < High School
 ● High School
 ● Some College
 ● 2-Year Degree
 ● 4-Year Degree
 ● Master's
 ● PHD



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TOP POSTED EMPLOYERS

Ordered by frequency of postings:

- Express Employment Professionals
- Aerotek
- Workbox Staffing
- Sentech Services
- Nesco Resource, LLC Jobs
- Qualified Staffing
- ResourceMFG
- Spark Talent Inc
- Tradesmen International, Inc.
- Miller Industries, LLC

ADJACENT CAREERS BY NUMBER OF WORKERS AND JOB POSTINGS

NUMBER OF WORKERS

NUMBER OF JOB POSTINGS



ADJACENT CAREER SKILLS BOTH INCUMBENT AND EMERGING

Emerging and incumbent skills data come from “hard skills” listed in job postings for specific occupations. Emerging skills are based on postings from top companies focused on electric vehicle (EV) manufacturing. Incumbent skills are based on postings from top mobility companies across all technology types.

INCUMBENT SKILLS


1. Welding
2. Metal Inert Gas Welding (MIG welding)
3. Gas Metal Arc Welding (GMAW)
4. Jibs
5. Overhead Cranes
6. Manufacturing
7. Blueprint Reading
8. Ability to Lift 31-40 lbs.
9. Gauges
10. Hand Tools

EMERGING SKILLS


1. Welding
2. Metal Inert Gas Welding (MIG welding)
3. Manufacturing
4. Acetylene Torches
5. Gauges
6. Tape Measures
7. Gas Metal Arc Welding (GMAW)
8. Ability to Lift 21-30 lbs.
9. Lathes
10. Computer Aided Design Software (CAD Software)

SEMCA Workforce Intelligence Network (WIN) for Southeast Michigan is a nonprofit organization committed to workforce and economic development in Southeast Michigan. EIN #: 38-2675191



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