



LARGE EQUIPMENT MECHANICS

Large Equipment Mechanics in the Forest Products Sector work on a variety of machines ranging from logging equipment in the forest to trucks and forklifts in wood and sawmills. According to employers, the most in-demand production occupations within the sector include:

- ✦ Bus & Truck Mechanics and Diesel Engine Specialists
- ✦ Mobile Heavy Equipment Mechanics, Except Engines
- ✦ Farm Equipment Mechanics and Service Technicians



LARGE EQUIPMENT MECHANICS

**Current Jobs
in Maine,
across all sectors
(2022)**



**Job Openings per
Year in Maine,
across all sectors
(average 2022 -32)**



**Median Hourly
Wages across
all sectors
(2022)**



Typical Entry Points

Medium job preparation is needed. Most workers have a high school diploma or equivalent plus vocational schools and receive moderate- to long-term on-the-job training (OJT), which can range from 1 -2 years, or an associate's degree. Examples of the types of training available include (but are not limited to):

Career & Tech. Education

- † Heavy Equipment Maintenance & Operation
- † Diesel Equipment & Technology

Certificate or Associate's Degree

- † Diesel, Truck & Heavy Equipment Technology
- † Diesel and Automotive Engines
- † Diesel Hydraulics Technology

Experience in Related Occupations

- † Auto Service Techs
- † Industrial Machinery Mechanics
- † Installation, Maintenance & Repair

Career Progression

Career progression can take multiple forms depending on the worker's interests, prior experience, skill attainment, or degree attainment. To advance, workers need around 5 years within the role and to demonstrate leadership, experience, and capabilities in one or more of the following areas. These skills may be learned through OTJ or external training.



Specialization

- † Specific equipment and machines or processes



Management

- † Team Lead
- † Supervisor
- † Manager
- † Area Manager



Cross Training

- † Industrial Machinery Mechanics
- † Millwrights

Large Equipment Mechanics



Education and Training Providers

The following institutions provide training for large equipment mechanics workers.

Type	Institution	Location	Program	Relevant Industry Credentials &	Length
	Caribou Technology Center	Caribou	Large Equipment Maintenance and Operation	OSHA 10-Hour; First Aid/CPR/AED	
	Coastal Washington County	Machias	Diesel Technology	None listed	
	Presque Isle Tech Center	Presque Isle	Industrial & Farm Mechanics	None listed	
Career & Technical Education Programs	Region 9 School of Applied Technology	Mexico	Heavy Equipment	CDL Class A/B; NCCER Heavy Equipment Credentials; OSHA-10; First Aid/CPR	1-2 years
	St. John Valley Technology Center	Frenchville	Heavy Equipment Operation	ACT Work Keys National Career Readiness Certificate (NCRC)	
	United Technologies Center	Bangor	Diesel Equipment	None listed	
	Westbrook Regional Vocational Center	Westbrook	Heavy Equipment Operation	OSHA-10	
Colleges	Eastern Maine Community College	Bangor	Diesel, Truck, and Heavy Equipment Technology	Certificate, ASE Associate's Degree Certificate	1-2 years
	Washington County Community College		Diesel and Automotive Engine Overhaul	Associate's Degree Certificate	
	Northern Maine Community College	Presque Isle	Diesel Hydraulics Technology	Associate's Degree, ASE Certification	

Large Equipment Mechanics



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Experience in Related Occupations

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- ✦ Industrial Machinery Mechanics
- ✦ Installation, Maintenance & Repair



LARGE EQUIPMENT MECHANICS

Avg. Hourly Salary Range: \$14.21 - \$28.23

Depending on the entry point, workers will require moderate- to long-term OTJ to develop the necessary skills to operate independently.

Behavioral Skills

- ✦ Attention to detail
- ✦ Safe working skills
- ✦ Willingness to learn
- ✦ Critical thinking

Technical Skills

- ✦ Basic knowledge of equipment and trucks
- ✦ Maintenance and repair skills
- ✦ Knowledge of basic rolling stock mechanic work
- ✦ CDL

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Behavioral Skills

- ✦ Willingness to be trained
- ✦ Good attitude
- ✦ Work ethic
- ✦ Willingness to work long hours
- ✦ Reliability
- ✦ Leadership

Technical Skills

- ✦ Ability to diagnose and fix equipment in a safe and proficient manner
- ✦ Welding certification
- ✦ Mechanical experience
- ✦ Diesel hydraulics experience



Specialization

- ✦ Specific equipment and machines or processes



Management

- ✦ Team Lead
- ✦ Supervisor
- ✦ Manager
- ✦ Area Manager



Cross Training

- ✦ Industrial Machinery Mechanics
- ✦ Millwrights



BUS & TRUCK MECHANICS & DIESEL ENGINE SPECIALISTS

49-3031

Diagnose, adjust, repair, or overhaul buses and trucks, or maintain and repair any type of diesel engines. Includes mechanics working primarily with automobile or marine diesel engines.

Skills

- ✦ Repairing
- ✦ Troubleshooting
- ✦ Operations Monitoring
- ✦ Equipment Maintenance
- ✦ Critical Thinking

Typical Work Activities

- ✦ Repairing & Maintaining Mechanical Equipment
- ✦ Inspecting Equipment, Structures, or Materials
- ✦ Getting Information
- ✦ Identifying Objects, Actions, and Events
- ✦ Operating Vehicles, Mechanized Devices, or Equipment

Typical Work Context

- ✦ Exposed to Contaminants
- ✦ Spend Time Using Hands to Handle, Control, or Feel Objects, Tools, or Controls
- ✦ Wear Common Protective or Safety Equipment
- ✦ Face-to-Face Discussions
- ✦ In an Enclosed Vehicle or Equipment



Bus & Truck Mechanics & Diesel Engine Specialists



Maine Employment Outlook 2022 - 2032

📌 Current Jobs (2022): **1,987**

📌 Projected Growth:

📌 **-2% in Maine**

📌 **8% in the US**

📌 Hires (2022): **847**

📌 Near-Term Retirements: **556 (28%)**

📌 Average Annual Openings: **188**

Average annual openings account for industry growth and worker replacements needed due to retirements or workers permanently leaving an occupation

Job Preparation Needed: Medium

Typical requirements for entry:

- 📌 High school diploma or equivalent
- 📌 Long-term on-the-job training
- 📌 No work experience required

Workforce Demographics

- 📌 28% of workers are over the age of 55
- 📌 5% BIPOC workers
- 📌 1% female workers
- 📌 National education attainment:
 - 📌 47% high school graduates
 - 📌 23% some college, no degree
 - 📌 14% Associate's degree



Jobs Postings for Bus & Truck Mechanics in Maine

Top Job Titles: Diesel Truck and Trailer Mechanics I
Diesel Mechanic Technicians I Truck/Trailer Mechanics I
Diesel Mechanics

Specialized Skills:

- 📌 Diesel Engines
- 📌 Preventive Maintenance
- 📌 Electrical Systems
- 📌 Vehicle Maintenance
- 📌 Brakes

Qualifications:

- 📌 Valid Driver's License
- 📌 Commercial Driver's License (CDL)

Bus & Truck Mechanics & Diesel Engine Specialists



Wages by Years of Experience

Low (15% below median), Median, and High (15% above median)

Overall Median Hourly Wage: \$22.46



Top Compatible Occupations

The following occupations have comparable skills to *Bus and Truck Mechanics* based on the levels and importance of knowledge, skills, and abilities. This means workers in these occupations could easily transfer their competencies to work in the forest products sector.

- 🌲 Farm Equipment Mechanics and Service Technicians
- 🌲 Motorboat Mechanics and Service Technicians
- 🌲 Outdoor Power Equipment and Other Small Engine Mechanics
- 🌲 Maintenance Workers, Machinery
- 🌲 Electric Motor, Power Tool, and Related Repairers



Note: Maine's minimum wage in 2023 is \$13.80. Data reflects 2022 wages.

Source: Lightcast 2023.2

Bus & Truck Mechanics & Diesel Engine Specialists



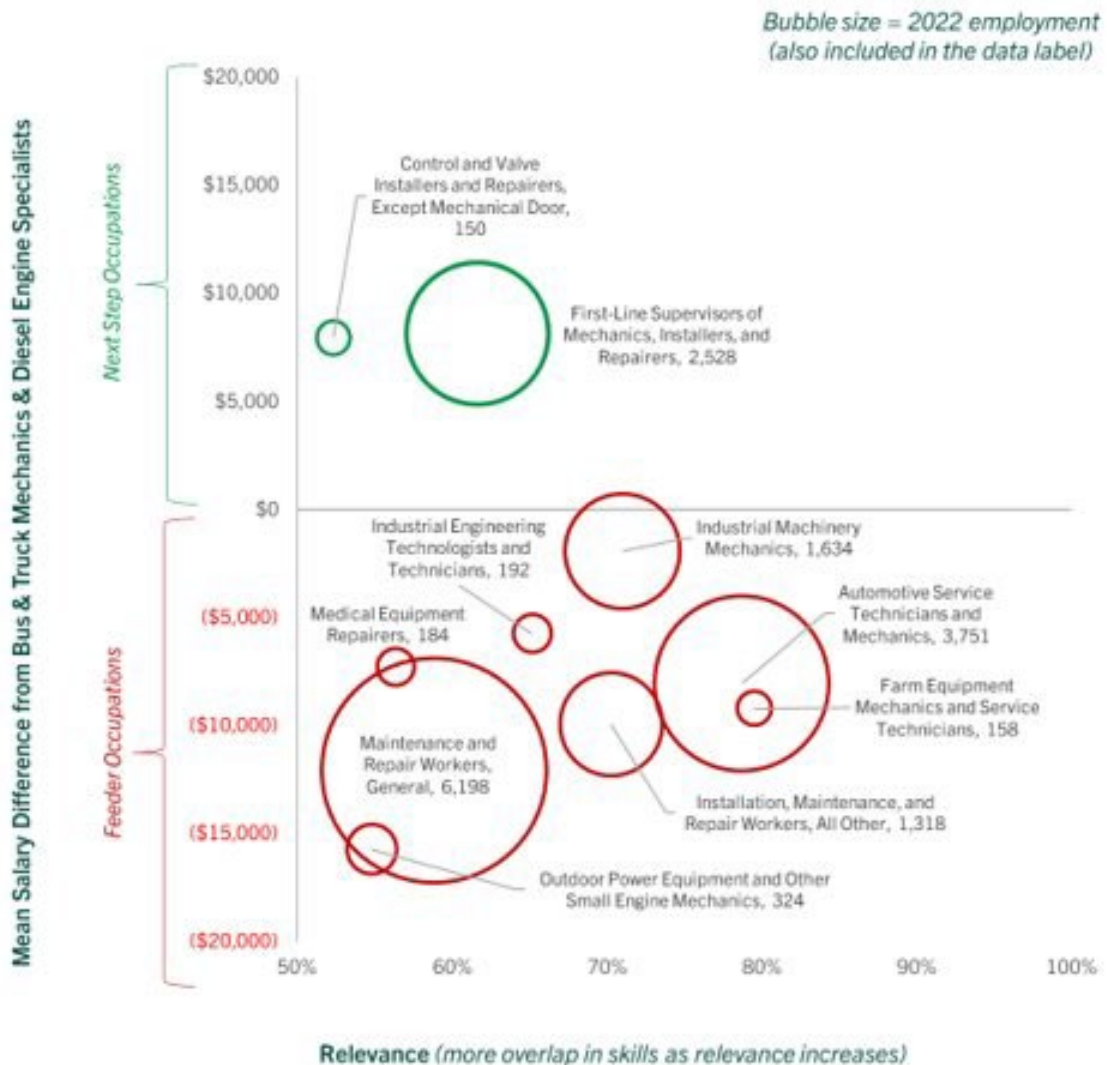
Feeder and Next Step Occupations

Related occupations are plotted based on their skills transferability to *Bus and Truck Mechanics* (the x axis) and their salary difference (the y axis, with \$0 indicating the occupation has the same salary as *Bus and Truck Mechanics*). Current employment in the occupation is represented by the bubble size (and in the data label) to indicate the size of the labor pool.

Feeder Occupations earn less than *Bus and Truck Mechanics*; therefore, becoming a *Bus and Truck Mechanics* would represent upward mobility with minimal training. These are potential sources of labor that could be drawn from to meet demand for this occupation.



Next Step Occupations have higher wages than *Bus and Truck Mechanics* and present opportunities for advancement with minimal upskilling.





MOBILE HEAVY EQUIPMENT MECHANICS, EXCEPT ENGINES

49-3042

Diagnose, adjust, repair, or overhaul mobile mechanical, hydraulic, and pneumatic equipment, such as cranes, bulldozers, graders, and conveyors, used in construction, logging, and mining. Excludes “Bus and Truck Mechanics and Diesel Engine Specialists” and “Rail Car Repairers.”

Skills

- ✦ Repairing
- ✦ Troubleshooting
- ✦ Equipment Maintenance
- ✦ Operations Monitoring
- ✦ Operation and Control

Typical Work Activities

- ✦ Repairing and Maintaining Mechanical Equipment
- ✦ Operating Vehicles, Mechanized Devices, or Equipment
- ✦ Inspecting Equipment, Structures, or Materials
- ✦ Handling and Moving Objects
- ✦ Making Decisions and Solving Problems

Typical Work Context

- ✦ Wear common protective or safety equipment such as safety shoes, glasses, gloves, hearing protection, or hard hats
- ✦ Exposed to contaminants
- ✦ Face-to-face discussions
- ✦ Indoors, not environmentally controlled
- ✦ Spend time using hand to handle, control, or feel objects, tools, or controls



Mobile Heavy Equipment Mechanics



Maine Employment Outlook 2022 - 2032

📌 Current Jobs (2022): **1,232**

📌 Projected Growth:

📌 **2% in Maine**

📌 **12% in the US**

📌 Hires (2022): **654**

📌 Near-Term Retirements: **368 (30%)**

📌 Average Annual Openings: **126**

Average annual openings account for industry growth and worker replacements needed due to retirements or workers permanently leaving an occupation

Job Preparation Needed: Medium

Typical requirements for entry:

- 📌 High school diploma or equivalent
- 📌 Long-term on-the-job training
- 📌 No work experience required

Workforce Demographics

- 📌 30% of workers are over the age of 55
- 📌 10% BIPOC workers
- 📌 1% female workers
- 📌 National education attainment:
 - 📌 47% high school graduates
 - 📌 23% some college, no degree
 - 📌 13% Associate's degree



Jobs Postings for Mobile Heavy Equipment Mechanics in Maine

Top Job Titles: Heavy Equipment Mechanics I Lift Mechanics I Forklift Mechanics I Industrial Equipment Mechanics I Electronic Measurement Equipment Mechanics I Heavy Equipment Service Technicians

Specialized Skills:

- 📌 Hydraulics
- 📌 Heavy Equipment
- 📌 Mechanics

Qualifications:

- 📌 Valid Driver's License

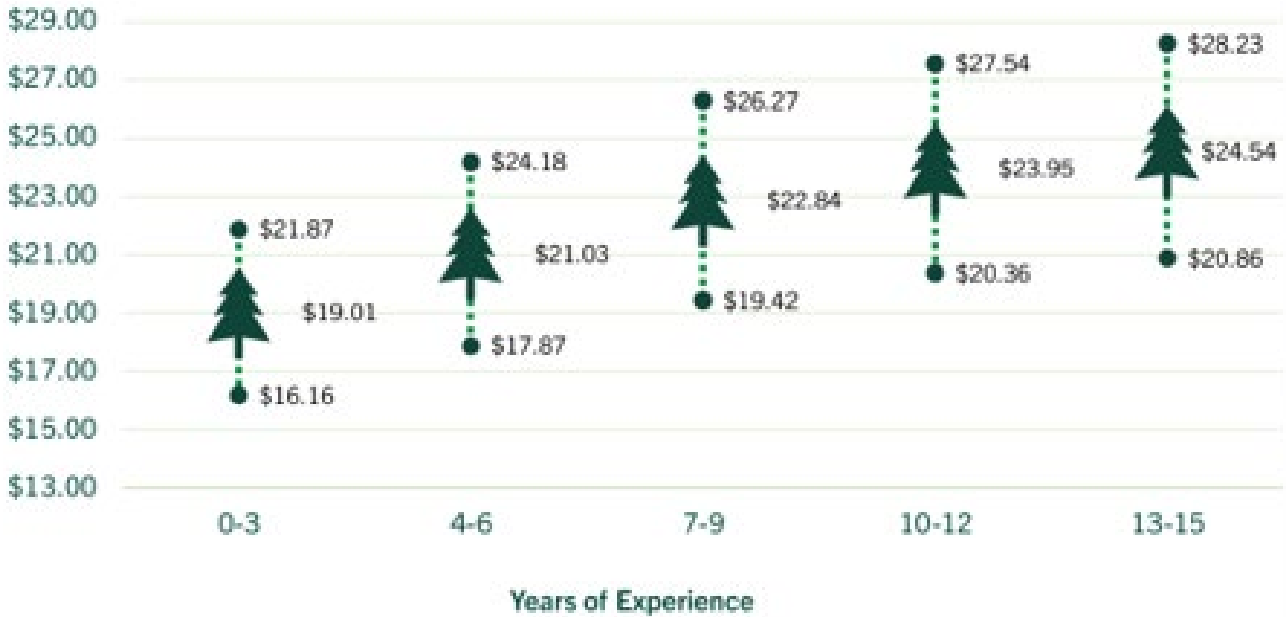
Mobile Heavy Equipment Mechanics



Wages by Years of Experience

Low (15% below median), Median, and High (15% above median)

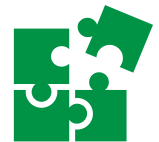
Overall Median Hourly Wage: \$23.46



Top Compatible Occupations

The following occupations have comparable skills to *Mobile Heavy Equipment Mechanics* based on the levels and importance of knowledge, skills, and abilities. This means workers in these occupations could easily transfer their competencies to work in the forest products sector.

- ⬆ Electric Motor, Power Tool, and Related Repairers
- ⬆ Industrial Machinery Mechanics
- ⬆ Automotive Service Technicians and Mechanics
- ⬆ Aircraft Mechanics and Service Technicians
- ⬆ Maintenance and Repair Workers, General



Note: Maine's minimum wage in 2023 is \$13.80. Data reflects 2022 wages.

Source: Lightcast 2023.1

Mobile Heavy Equipment Mechanics



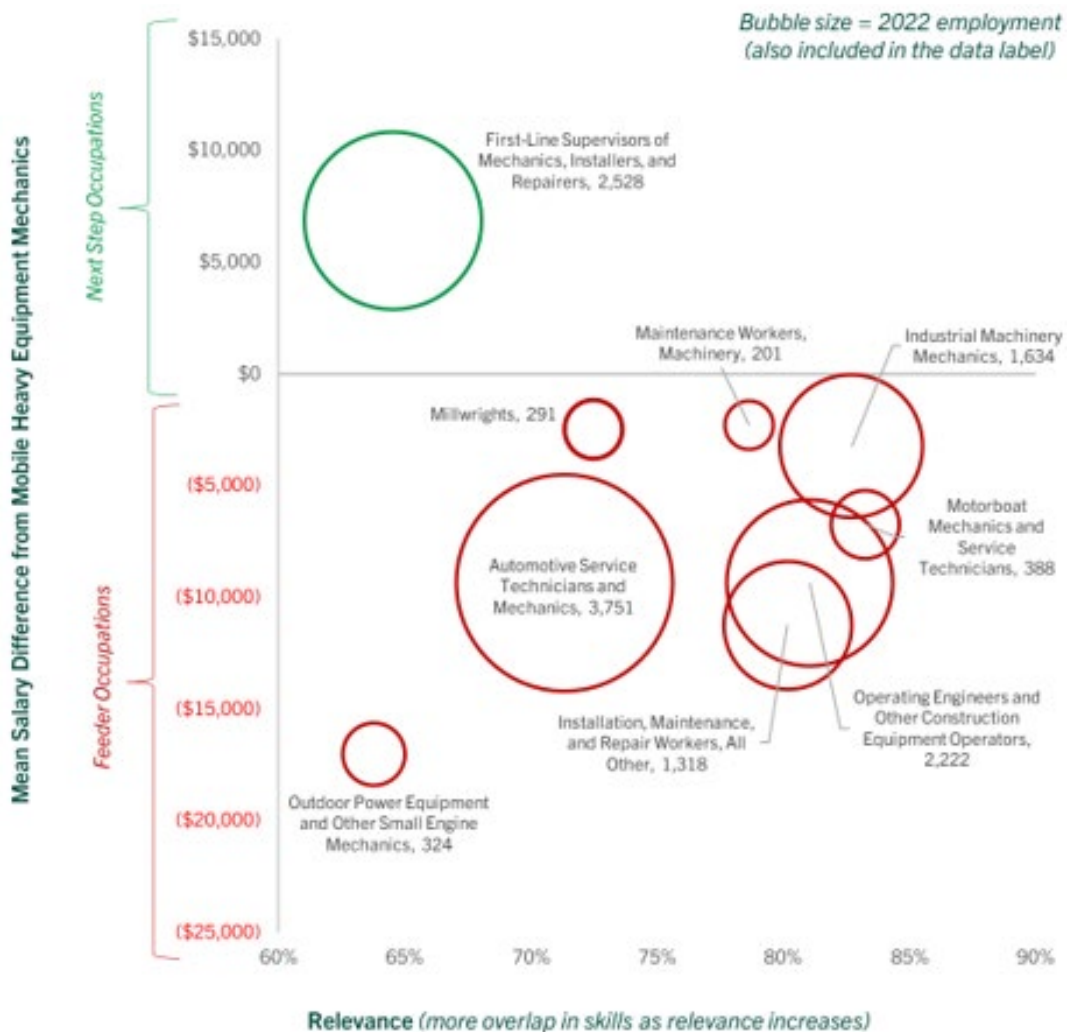
Feeder and Next Step Occupations

Related occupations are plotted based on their skills transferability to *Mobile Heavy Equipment Mechanics* (the x axis) and their salary difference (the y axis, with \$0 indicating the occupation has the same salary as *Mobile Heavy Equipment Mechanics*). Current employment in the occupation is represented by the bubble size (and in the data label) to indicate the size of the labor pool.

Feeder Occupations earn less than *Mobile Heavy Equipment Mechanics*; therefore, becoming a *Mobile Heavy Equipment Mechanics* would represent upward mobility with minimal training. These are potential sources of labor that could be drawn from to meet demand for this occupation.



Next Step Occupations have higher wages than *Mobile Heavy Equipment Mechanics* and present opportunities for advancement with minimal upskilling.





FARM EQUIPMENT MECHANICS AND SERVICE TECHNICIANS

49-3041

Diagnose, adjust, repair, or overhaul farm machinery and vehicles, such as tractors, harvesters, dairy equipment, and irrigation systems. Excludes “Bus and Truck Mechanics and Diesel Engine Specialists.”

Skills

- ♣ Operations monitoring
- ♣ Operation and control
- ♣ Quality Control Analysis
- ♣ Monitoring
- ♣ Critical Thinking

Typical Work Activities

- ♣ Getting Information
- ♣ Operating Vehicles, Mechanized Devices, or Equipment
- ♣ Making Decisions and Solving Problems
- ♣ Repairing and Maintaining Mechanical Equipment
- ♣ Identifying Objects, Actions, and Events

Typical Work Context

- ♣ Face-to-Face Discussions
- ♣ Spend Time Using Hands to Handle, Control, or Feel Objects, Tools, or Controls
- ♣ Indoors, Not Environmentally Controlled
- ♣ Exposed to Hazardous Equipment
- ♣ Important to Be Exact or Accurate





Maine Employment Outlook 2022 - 2032

📌 Current Jobs (2022): **158**

📌 Projected Growth:

📌 **16% in Maine**

📌 **13% in the US**

📌 Hires (2022): **61**

📌 Near-Term Retirements: **53 (33%)**

📌 Average Annual Openings: **19**

Average annual openings account for industry growth and worker replacements needed due to retirements or workers permanently leaving an occupation

Job Preparation Needed: Some

Typical requirements for entry:

- 📌 High school diploma or equivalent
- 📌 Moderate-term on-the-job training
- 📌 No work experience required

Workforce Demographics

- 📌 24% of workers are over the age of 55
- 📌 3% BIPOC workers
- 📌 15% female workers
- 📌 National education attainment:
 - 📌 23% less than high school diploma
 - 📌 48% high school graduates
 - 📌 21% some college, no degree



Jobs Postings for Farm Equipment Mechanics in Maine

Top Job Titles: Trailer Technicians | Farm Mechanics | Installers | Field Service Mechanics

Specialized Skills:

- 📌 Suspension (Vehicle)
- 📌 Clutch
- 📌 Powertrain

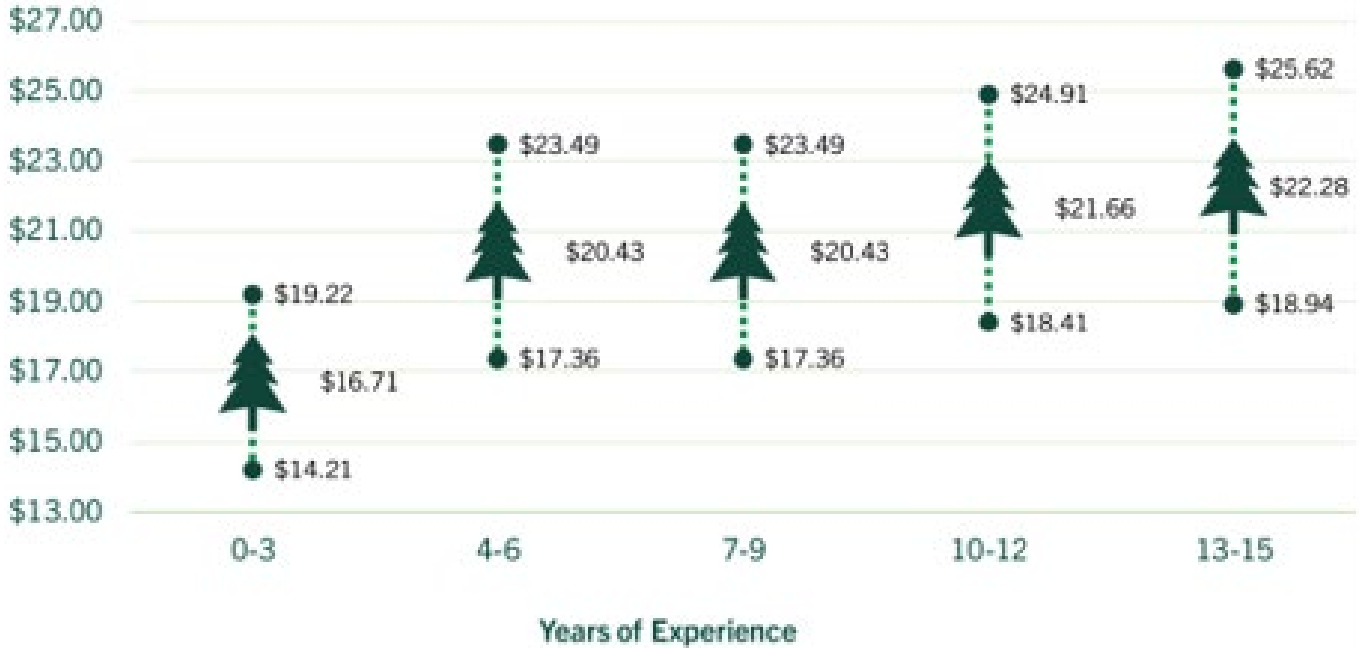
Qualifications:

- 📌 Valid Driver's License

Wages by Years of Experience

Low (15% below median), Median, and High (15% above median)

Overall Median
Hourly Wage:
\$22.08



Top Compatible Occupations

The following occupations have comparable skills to *Farm Equipment Mechanics* based on the levels and importance of knowledge, skills, and abilities. This means workers in these occupations could easily transfer their competencies to work in the forest products sector.

- ♣ Bus and Truck Mechanics and Diesel Engine Specialists
- ♣ Motorboat Mechanics and Service Technicians
- ♣ Outdoor Power Equipment Mechanics and Service Technicians
- ♣ Electric Motor, Power Tool, and Related Repairers
- ♣ Mobile Heavy Equipment Mechanics, Except Engines



Note: Maine's minimum wage in 2023 is \$13.80. Data reflects 2022 wages.

Source: Lightcast 2023.2

Feeder and Next Step Occupations

Related occupations are plotted based on their skills transferability to *Farm Equipment Mechanics* (the x axis) and their salary difference (the y axis, with \$0 indicating the occupation has the same salary as *Farm Equipment Mechanics*). Current employment in the occupation is represented by the bubble size (and in the data label) to indicate the size of the labor pool.

Feeder Occupations earn less than *Farm Equipment Mechanics*; therefore, becoming a *Farm Equipment Mechanics* would represent upward mobility with minimal training. These are potential sources of labor that could be drawn from to meet demand for this occupation.



Next Step Occupations have higher wages than *Farm Equipment Mechanics* and present opportunities for advancement with minimal upskilling.

