



STRATEGY TITAN



Petroleum and Coal Products Manufacturing US Compensation Trends Report

NAICS 324 – August 2022 Edition

Compensation trends and insights simplified

www.strategytitan.com/labortitan



EXECUTIVE SUMMARY

Strong wage growth over the past 12 months is expected to continue over the next 12 months.

US Labor Market Overview

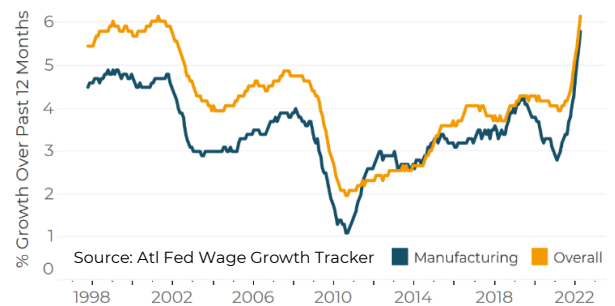
The July 13th edition of the Beige Book from the Federal Reserve highlighted that most labor markets in the US saw employment rise at a moderate pace and labor conditions remained tight overall. Modest improvements in labor availability amid weaker demand for workers was also noted, particularly among manufacturing and construction contacts.

Wage growth continues to be a consistent theme, with one third of Fed Districts indicating that employers were considering or had given employees bonuses to offset inflation related costs while in two Districts, workers requested raises to offset higher costs. A quarter of Districts indicated wage growth will remain elevated for the next six months, while a few noted that wage pressures are expected to subside later this year.

Manufacturing Labor Market Overview

Per the Atlanta Fed, as of June 2022 manufacturing median wages overall have grown 5.8% over the past 12 months. Overall median US wages have grown 5.3% over the same time period. Manufacturing has experienced the 3rd fastest median wage growth behind “trade and transportation” (5.9%) and “leisure and hospitality” (6.4%).

Median % change in the hourly wage of individuals observed 12 months apart



Petroleum and Coal Products Labor Market Overview

Petroleum and Coal saw median wage growth of 7.0% nationally across all jobs over the past 12 months.

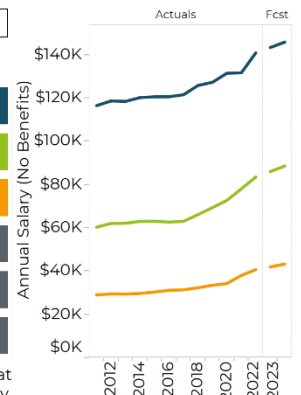
Our median wage growth forecast for the industry over the next 12 months is 3.0%. Considering the currently impact of inflation, it is possible this increases to mid/upper single digits for specific markets.

Annual Salary & Hourly Wages For All Petroleum and Coal Products Manufacturing Jobs

Notes: Figures below represent **salary/wages only**. Benefits and other forms of compensation are not included. Figures exclude overtime wages and other forms of special compensation. Assumes 2,080 straight time hours worked per year.

*All figures as of July

	Actuals			Forecast	
	2020	2021	2022	2023	2024
Expert Annual Wage (90th PCTL)	\$131.3K	\$131.6K	\$140.8K	\$143.2K	\$145.7K
Median Annual Wage (50th PCTL)	\$72.6K	\$77.9K	\$83.4K	\$85.9K	\$88.5K
Entry Annual Wage (10th PCTL)	\$34.2K	\$37.9K	\$40.6K	\$41.9K	\$43.2K
Expert \$/Hr (90th PCTL)	\$63.1	\$63.3	\$67.7	\$68.9	\$70.1
Median \$/Hr (50th PCTL)	\$34.9	\$37.5	\$40.1	\$41.3	\$42.5
Entry \$/Hr (10th PCTL)	\$16.4	\$18.2	\$19.5	\$20.1	\$20.8



PCTL = Percentile, a salary/wage where a certain percentage of salary/wages fall below that number. In general, more experience, expertise and/or responsibility results in a higher pay.

Top 20 Industry Specific Occupations With Median Wages and Forecasted Growth Nationally

National Hourly Pay & Employment For Top 20 Occupations In Petroleum and Coal Products Manufacturing (NAICS 324)

*Top 20 detailed occupations based on total US employment in "Petroleum and Coal Products Manufacturing" as of June 2022

Source: strategytitan.com/labortitan

Occupation Title	Total Jobs	Median \$/Hr Pay			Forecasted 12 Month Median Wage Growth		
		\$0	\$50	\$100	0%	2%	4%
Petroleum Pump System Operators, Refinery Operators, and Gaugers	16.4K		\$46.5				3.7%
First-Line Supervisors of Production and Operating Workers	6.1K		\$54.2				3.9%
Mixing and Blending Machine Setters, Operators, and Tenders	5.6K	\$24.7					3.3%
Industrial Machinery Mechanics	4.6K		\$46.1				3.9%
Chemical Plant and System Operators	3.4K		\$42.3				3.7%
Heavy and Tractor-Trailer Truck Drivers	3.0K	\$26.2					3.5%
Laborers and Freight, Stock, and Material Movers, Hand	2.4K	\$25.4					5.8%
Inspectors, Testers, Sorters, Samplers, and Weighers	2.2K	\$29.7					3.2%
First-Line Supervisors of Mechanics, Installers, and Repairers	2.0K		\$63.6				4.4%
Construction Laborers	2.0K	\$19.5					3.1%
General and Operations Managers	1.9K		\$74.2				1.6%
Industrial Production Managers	1.9K		\$64.4				2.5%
Industrial Truck and Tractor Operators	1.8K	\$25.9					4.2%
Chemical Technicians	1.8K		\$39.2				4.1%
Maintenance and Repair Workers, General	1.5K	\$30.9					2.8%
Petroleum Engineers	1.5K		\$65.4				1.2%
Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	1.4K		\$44.7				3.0%
Packaging and Filling Machine Operators and Tenders	1.2K	\$22.8					4.3%
Chemical Engineers	0.9K		\$64.4				2.5%
Chemical Equipment Operators and Tenders	0.8K		\$40.8				5.8%

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Recommendations for 2023

Be proactive with your compensation management process and strategy. Building these muscles and processes takes time. Start the process today. Some recommendation to make that happen are below.

Short Term (6-12 Months)

- Benchmark your wages against local occupational wages, not just national and regional figures.
- Understand if your wages increased less than your local market. If you took wages up 4% on average, and your competition took wages up 6%, you need to be ready to offer slightly larger wage increases in 2023 to remain competitive in your local labor market.
- Be prepared for more frequent conversations with your workforce on mid year increases until inflation starts to subside.

Mid Term (1-2 Years)

- If you are using wage figures from a 3rd party like an industry association, consider using additional sources to ensure you are using high quality and reliable data. Surveys are great, but they tend to have challenges with sample size, frequency of update/recency, and industry bias.
- Competition for key roles is likely to persist through 2023 and beyond. To improve your chances of winning the talent battle you need to be confident that you are offering competitive wages.
- If you don't have a structured compensation benchmarking and management strategy/program, you should consider developing one. This is a key tool in the battle for talent and serves as the foundation for your 2023 plan and broader compensation strategy.

Important note: All median wages and forecasts presented in this report are national level estimates. Local wages and forecast can vary significantly based on unique local labor market dynamics. For detailed current and forecasted local market occupational wages/forecasts visit strategytitan.com/labortitan

About Strategy Titan

Strategy Titan is a strategic management, data, and analytics technology and advisory firm that focuses on helping companies drive top and bottom-line growth using the power of data and analytics.

Labor Titan is our proprietary workforce and compensation insight tool. It provides real-time and forecasted job compensation data at the metro, industry, and occupational work levels.

Labor Titan's wage and employment forecasts and predictive analytics will arm you with powerful insights on local occupational compensation trends.

Bottom line? We take the uncertainty and complexity out of compensation related hiring and retention decisions.

You can get custom occupational wage reports right down to your local metro in minutes at strategytitan.com/labortitan.

Need help with any of the topics covered in this report or want to discuss your particular needs? Contact us.

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