

Northwestern Indiana Regional Planning Commission

Machinery Manufacturing Cluster Drill-down

Section 01



Economic indicators

Economic Indicators	Northwestern Indiana Regional Planning Commission (QCEW, non-QCEW, self-employed and proprietors)
Jobs 2023 (% of total jobs)	3,568 (0.9%)
Job change 2018-2023 (#, %)	308 (+9%)
Average total earnings per job 2023	\$90,943
Cost of Living (COL)	93.8
Est. Establishment 2023 (% of total est.)	76 (0.4%)
GRP (Gross Regional Product) 2023	\$ 558.2 Million
GRP per job 2023 (productivity)	\$156,448
Total purchases 2023	\$640 Million
<i>Within region</i>	33.4%
<i>Imported from outside of region & state</i>	66.6%
Number of sectors in chemicals and chemical-based cluster	35

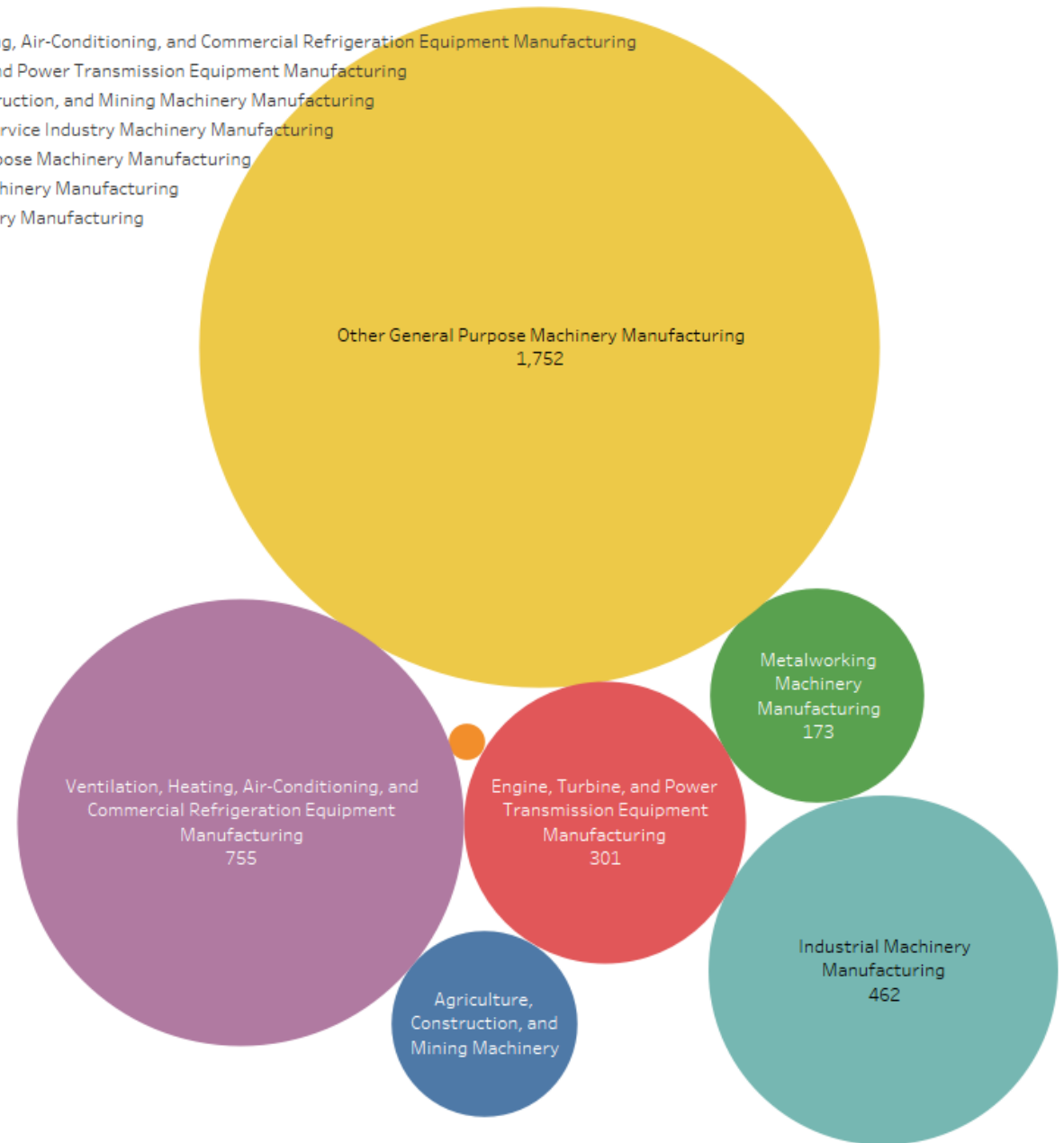


Machinery

NAICS-3 digit	Description	Jobs 2023
3339	Other General Purpose Machinery Manufacturing	1,752
3334	Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing	755
3332	Industrial Machinery Manufacturing	462
3336	Engine, Turbine, and Power Transmission Equipment Manufacturing	301
3335	Metalworking Machinery Manufacturing	173
3331	Agriculture, Construction, and Mining Machinery Manufacturing	131
3333	Commercial and Service Industry Machinery Manufacturing	5

NAICS 4-digit sectors

- Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing
- Engine, Turbine, and Power Transmission Equipment Manufacturing
- Agriculture, Construction, and Mining Machinery Manufacturing
- Commercial and Service Industry Machinery Manufacturing
- Other General Purpose Machinery Manufacturing
- Metalworking Machinery Manufacturing
- Industrial Machinery Manufacturing



Section 02



Competitiveness, economic leakages and Workforce

Regional Job Growth:

Three Key Components of the Shift-Share Analysis

Expected Change

The sum of the industrial mix and the national growth effects



National Growth Effect

Explains how much of the regional industry's growth is explained by the overall growth of the national economy

Industrial Mix Effect

Share of regional industry growth explained by the growth of the specific industry sector at the national level

Note:

The calculations ensure no double counting of job change effects from national to regional levels

Regional Competitive Effect

Explains how much of the change in a given industry is due to some unique competitive advantage that the region possesses



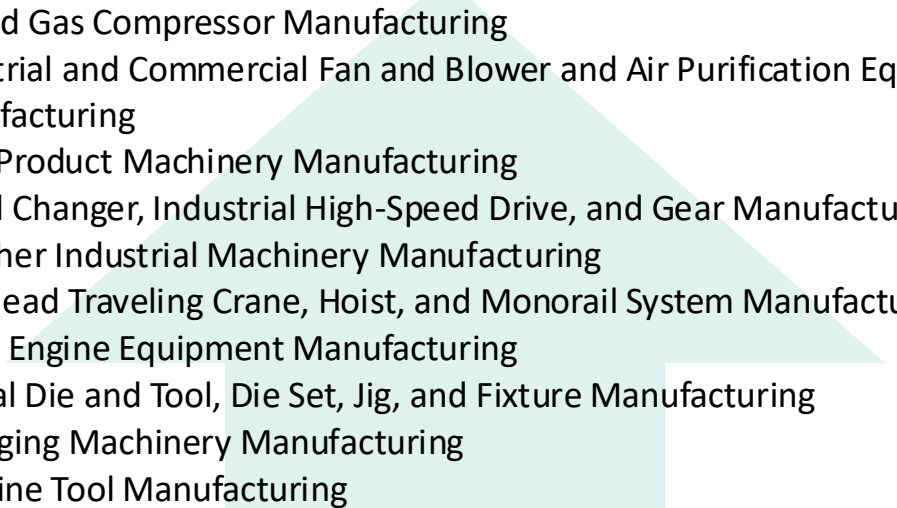
Shift-Share Analysis (Regional Performance) by Top Industry Sectors

Industries		Jobs 2023	National Trend 2018- 2023 (A)	Industry Trend 2018-2023 (B)	Cumulative Expected Growth (C=A+B)	Actual Job Growth 2018-2023 (D)	Regional Performance 2018- 2023 (D-C)
333912	Air and Gas Compressor Manufacturing	1,069	75	-92	-17	215	↑ 232
333413	Industrial and Commercial Fan and Blower and Air Purification Equipment Manufacturing	507	40	-16	24	51	↑ 26
333241	Food Product Machinery Manufacturing	275	15	-3	12	104	↑ 93
333924	Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing	264	38	41	79	-172	-251
333414	Heating Equipment (except Warm Air Furnaces) Manufacturing	178	15	-1	13	10	-3
333612	Speed Changer, Industrial High-Speed Drive, and Gear Manufacturing	161	10	-13	-3	51	↑ 55
333248	All Other Industrial Machinery Manufacturing	148	1	0	1	132	↑ 131
333998	All Other Miscellaneous General Purpose Machinery Manufacturing	137	14	-3	11	-20	-31
333923	Overhead Traveling Crane, Hoist, and Monorail System Manufacturing	114	3	-3	0	75	↑ 75
333618	Other Engine Equipment Manufacturing	108	7	-5	2	28	↑ 26
333514	Special Die and Tool, Die Set, Jig, and Fixture Manufacturing	106	7	-21	-13	24	↑ 37
333993	Packaging Machinery Manufacturing	100	6	4	10	31	↑ 21
333111	Farm Machinery and Equipment Manufacturing	78	10	5	14	-32	-47
333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing	70	16	4	19	-110	-129
333517	Machine Tool Manufacturing	52	2	-2	0	28	↑ 28

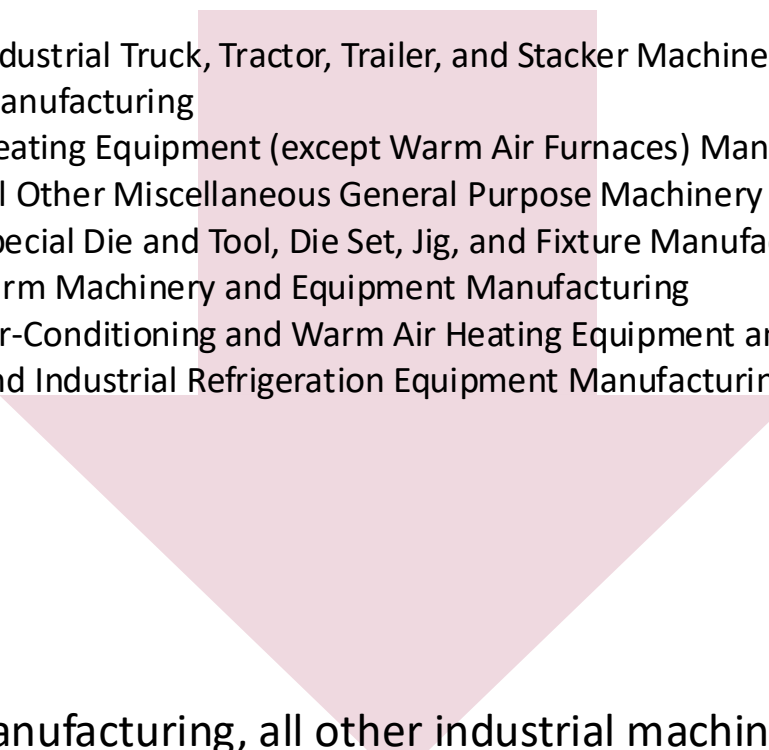
Note: Upward arrow (↑) indicates regional competitiveness.

Shift-Share Analysis 2023

Industries that Outperformed

- 
- Air and Gas Compressor Manufacturing
 - Industrial and Commercial Fan and Blower and Air Purification Equipment Manufacturing
 - Food Product Machinery Manufacturing
 - Speed Changer, Industrial High-Speed Drive, and Gear Manufacturing
 - All Other Industrial Machinery Manufacturing
 - Overhead Traveling Crane, Hoist, and Monorail System Manufacturing
 - Other Engine Equipment Manufacturing
 - Special Die and Tool, Die Set, Jig, and Fixture Manufacturing
 - Packaging Machinery Manufacturing
 - Machine Tool Manufacturing

Industries that Underperformed

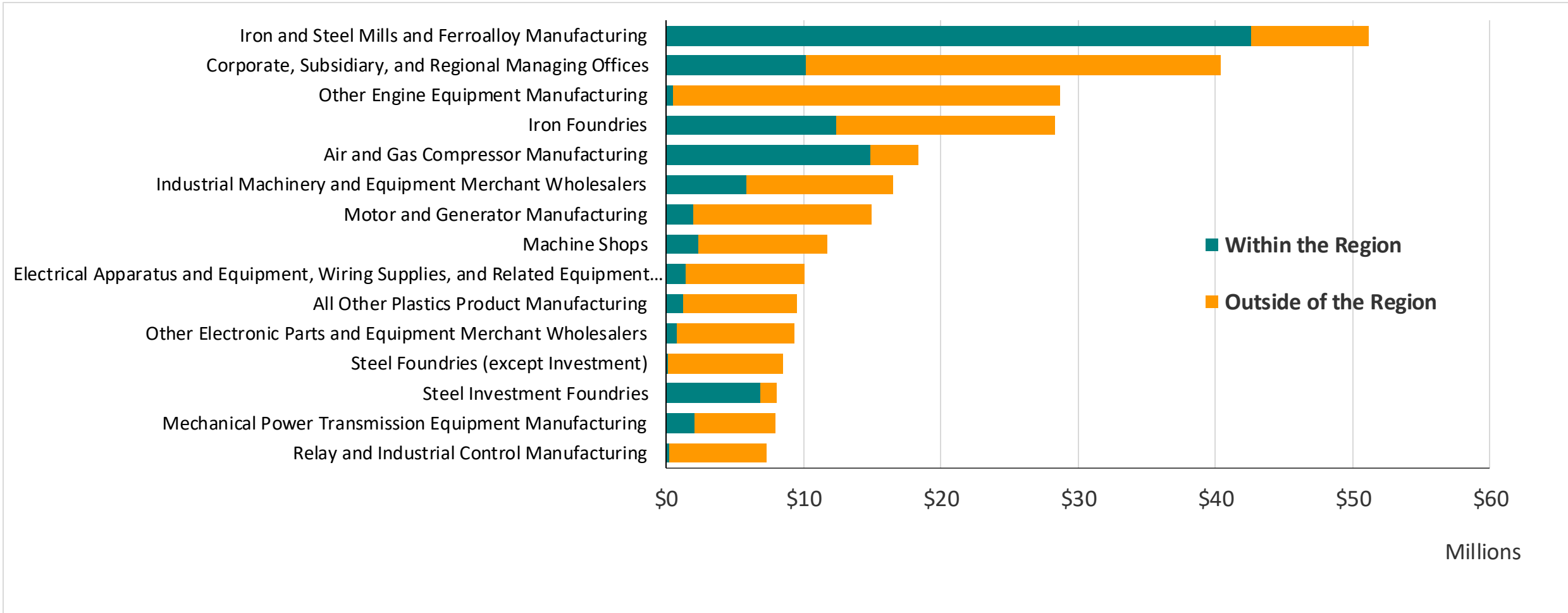
- 
- Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing
 - Heating Equipment (except Warm Air Furnaces) Manufacturing
 - All Other Miscellaneous General Purpose Machinery Manufacturing
 - Special Die and Tool, Die Set, Jig, and Fixture Manufacturing
 - Farm Machinery and Equipment Manufacturing
 - Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing

- A few strong industry sectors include air and gas compressor manufacturing, all other industrial machinery manufacturing, food product machinery manufacturing, all other industrial machinery manufacturing; overhead traveling crane, hoist, and monorail system manufacturing, etc.

Leakage analysis: Top 15 Industries by Inputs

Industries	Estimated Input (\$ Million), 2023	% In-Region	% Out of Region
Iron and Steel Mills and Ferroalloy Manufacturing	\$51.1	83.3%	16.7%
Corporate, Subsidiary, and Regional Managing Offices	\$40.4	25.2%	74.8%
Other Engine Equipment Manufacturing	\$28.7	1.8%	98.2%
Iron Foundries	\$28.3	43.7%	56.3%
Air and Gas Compressor Manufacturing	\$18.3	80.9%	19.1%
Industrial Machinery and Equipment Merchant Wholesalers	\$16.5	35.3%	64.7%
Motor and Generator Manufacturing	\$15.0	13.3%	86.7%
Machine Shops	\$11.7	19.8%	80.2%
Electrical Apparatus and Equipment, Wiring Supplies, and Related Equipment Merchant Wholesalers	\$10.1	13.6%	86.4%
All Other Plastics Product Manufacturing	\$9.5	12.7%	87.3%
Other Electronic Parts and Equipment Merchant Wholesalers	\$9.4	7.7%	92.3%
Steel Foundries (except Investment)	\$8.5	1.7%	98.3%
Steel Investment Foundries	\$8.1	85.4%	14.6%
Mechanical Power Transmission Equipment Manufacturing	\$7.9	25.7%	74.3%
Relay and Industrial Control Manufacturing	\$7.3	3.4%	96.6%

Leakage analysis 2023



- Corporate, Subsidiary, and Regional Managing Offices had \$30 million economic leakage in 2023. Other Engine Equipment Manufacturing had \$28 million leakages in 2023. Steel Foundries are imported in almost entirety.



**Air and gas
compressor
mfg.**



**All other
industrial
machinery
mfg.**

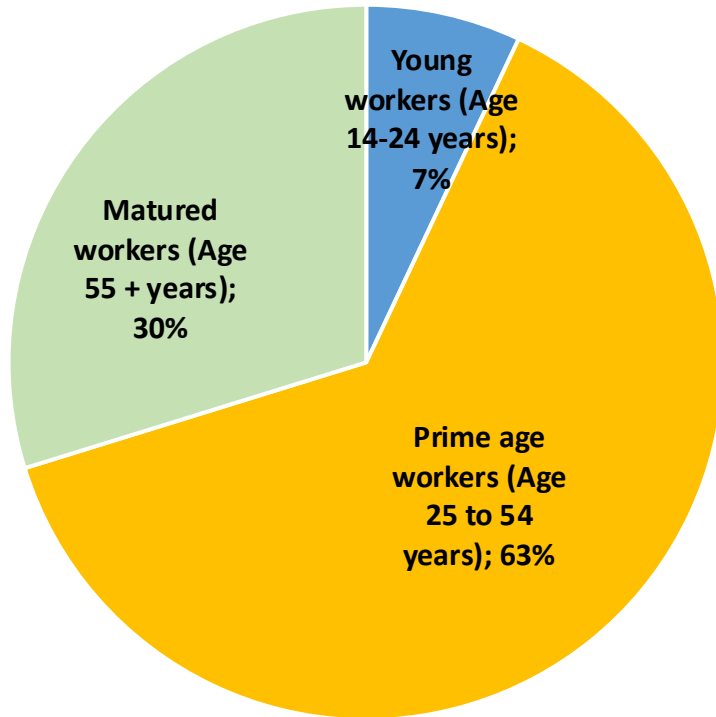


**Other engine
equipment
mfg.**



Occupations	Jobs 2023	% Change 2018-2023	% of Total Jobs in Cluster 2023	Median Hour Earnings	Entry level Education	Automation
Miscellaneous Assemblers and Fabricators	632	5%	17.7%	\$19.54	High school diploma or equivalent	112.6
Engine and Other Machine Assemblers	190	5%	5.3%	\$21.58	High school diploma or equivalent	118.7
Industrial Machinery Mechanics	149	66%	4.2%	\$37.37	High school diploma or equivalent	109.8
First-Line Supervisors of Production and Operating Workers	140	16%	3.9%	\$31.55	High school diploma or equivalent	88.6
Welders, Cutters, Solderers, and Brazers	123	106%	3.5%	\$21.76	High school diploma or equivalent	121.4
Machinists	118	-4%	3.3%	\$21.59	High school diploma or equivalent	115.2
Shipping, Receiving, and Inventory Clerks	100	56%	2.8%	\$20.64	High school diploma or equivalent	109.1
Mechanical Engineers	93	9%	2.6%	\$51.46	Bachelor's degree	83.4
Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	90	-23%	2.5%	\$33.77	High school diploma or equivalent	91.5
Laborers and Freight, Stock, and Material Movers, Hand	87	35%	2.4%	\$18.00	No formal educational credential	117.2
Industrial Engineers	81	4%	2.3%	\$50.76	Bachelor's degree	92
Inspectors, Testers, Sorters, Samplers, and Weighers	80	40%	2.2%	\$23.55	High school diploma or equivalent	106.1
Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	64	-55%	1.8%	\$17.70	High school diploma or equivalent	110.9
Computer Numerically Controlled Tool Operators	60	23%	1.7%	\$25.87	High school diploma or equivalent	116
Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	53	23%	1.5%	\$17.84	High school diploma or equivalent	115.9

Worker demographics 2023



- Hispanic workers (10%)
- Black or African-American workers (7%)
- Asian workers (1%)
- White workers (81%)
- American Indian or Alaska Native (0.1%)
- Others (1.1%)

- Male workers (79%)
- Female workers (21%)

- Slightly more than three in ten workers (30%) are matured (aged 55 years or more) workers in NIRPC in this cluster.

Section 03

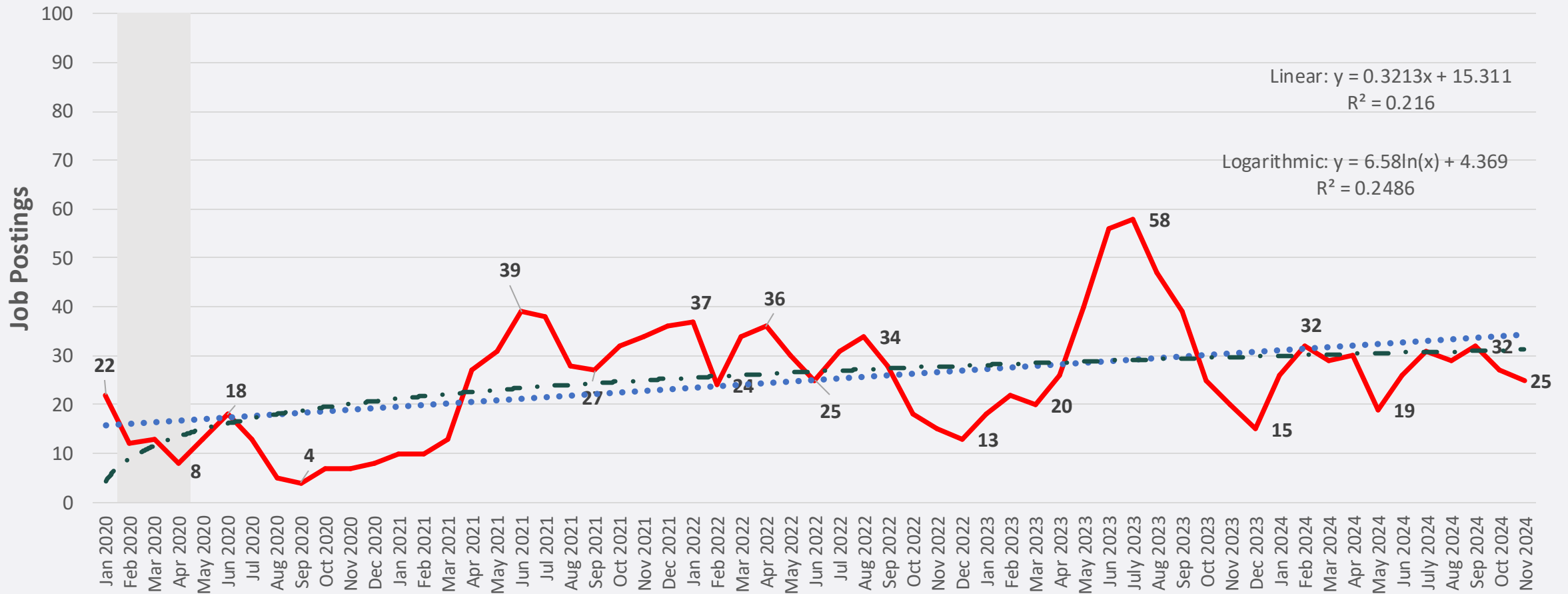


Jobs Postings (Labor demand)

Machinery Manufacturing Jobs Postings Overview

- From January 2020 to November 2024, a total of 2,489 unique jobs postings happened in industries within the Machinery Manufacturing. The average monthly unique jobs postings was 25 per month.
- The median posting duration was 29 days. Posting intensity was 2:1.
- Percent change between **January 2020 and November 2024** was 13%.
- 114 employers in Machinery Manufacturing competed for talent during this period.
- Hourly median advertised salary was \$21.97 per hour (24% postings included salaries)
- Job postings were advertised in 33 different industries within NIRPC Region. **Conveyor and Conveying Equipment Manufacturing, Air and Gas Compressor Manufacturing, and Construction Machinery Manufacturing** had more than 200 unique jobs postings during **January 2020 and November 2024**.
- Top companies in Agribusiness cluster posting jobs include Jervis B. Webb Company, Paladin, Sullair, Gast Manufacturing, and Urschel Laboratories.

Machinery Manufacturing: Job Postings Time Series (Jan 2020 to November 2024)



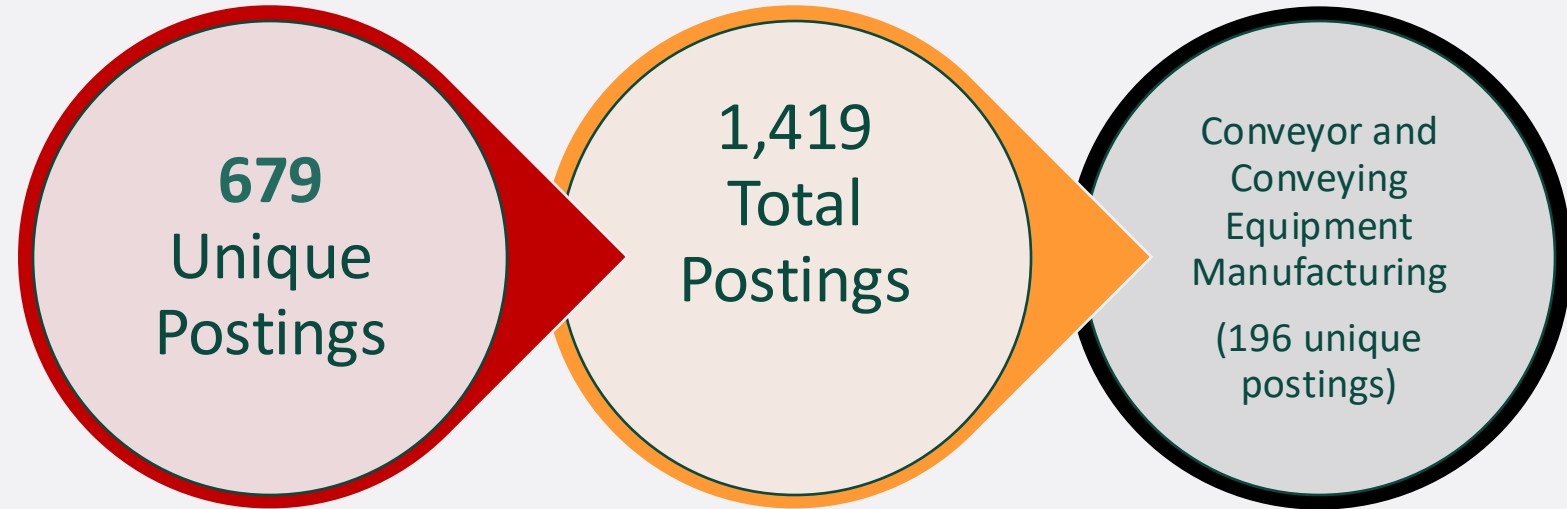
- Unique jobs postings are not seasonally adjusted and hence may show seasonal effects. Jobs postings are in a recovery mode following the COVID-19 induced recession (February 2020 to April 2020).

Machinery Manufacturing Latest Unique Jobs Postings

**Latest 1-
Month Unique
Jobs Postings
Oct 2024 - Nov
2024**



**Latest 12-
Month Unique
Jobs Postings
Nov 2023 -
Nov 2024**



Top Companies Postings

1. Jervis B. Webb Company
2. Paladin
3. Sullair
4. Gast Manufacturing
5. Urschel Laboratories
6. Vanair Manufacturing
7. Altra Industrial Motion
8. Siemens
9. Hoist Material Handling
10. SPX
11. Dekker Vacuum Technologies
12. Atlas Copco
13. Mickey's Linen
14. Altorfer

Top Industries

1. Conveyor and Conveying Equipment Manufacturing
2. Air and Gas Compressor Manufacturing
3. Construction Machinery Manufacturing
4. All Other Miscellaneous General Purpose Machinery Manufacturing
5. Other Engine Equipment Manufacturing
6. All Other Industrial Machinery Manufacturing
7. Measuring, Dispensing, and Other Pumping Equipment Manufacturing
8. Food Product Machinery Manufacturing
9. Speed Changer, Industrial High-Speed Drive, and Gear Manufacturing
10. Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing
11. Commercial and Service Industry Machinery Manufacturing

- Farmers, farm hand and manual worker jobs advertisements are based on analog and not online services.

Section 04



Economic Outlook

U.S. Industry Economic Outlook

- **Forklift and Conveyor Manufacturing** in the U.S. had \$39.1 bn revenue with a profit margin of 5.6% in 2024. It is expected to grow in revenues (1.4%) and employees (1.1%) during 2024-2029. Rising interest rates affected the construction and manufacturing industries impacting forklift and conveyor manufacturing industry. Tariff of foreign suppliers can level the playing field for the domestic industry.
- **Air and Gas Compressor Manufacturing** in the U.S. had \$8.7 bn revenue with a profit margin of 6% in 2024. This industry is expected to decline in the U.S., during 2024-2029. This industry was impacted by the pandemic and currently it is in a recovery mode. The consumer outlook is to go for environmental friendly products and there is an opportunity for R&D. Air and Gas Compressor Manufacturing in the U.S. is a diverse sector, which include manufacturers of refrigeration and air conditioning, HVAC, motor-vehicle air conditioning, etc.
- **All Other Industrial Machinery Manufacturing** in the U.S. is a diverse sector, which include machinery manufacturers for chemical processing, glass making, plastics working, additive manufacturing, etc.

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