2025 Manufacturing Workforce Trends Survey[©]





Compiled by:

Altura Consulting Group LLC

763-745-9425

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Introduction

The Manufacturers Alliance is pleased to present The Workforce Trends Survey - 2025.

This survey covers issues of critical importance to Minnesota manufacturing firms and summarizes comments from 174 companies.

A list of participating companies is included in the last section of this report.

Employee Turnover Rates

In this section, participants reported information on turnover rates over the last 12 months for:

- Voluntary separations (employee makes the decision to leave the company).
- Involuntary separations (company asks employee to leave the company for performance or layoffs).
- Total turnover rates (separations for any reason).

Total turnover rates reported in 2025 - on average across all groups – are slightly below those reported in 2024 (25.2%). See the tables below for details reported by industry group and termination type. Industries where zero participants reported turnover data are not included in the tables.

Industry Group	# Firms Reporting	25 th Percentile	Average	Median	75 th Percentile
All Industry Groups	158	8.0%	13.6%	12.5%	17.0%
Food & Kindred Products	5	*	20.5%	18.6%	*
Lumber & Wood ex Furniture	3	*	*	*	*
Furniture & Fixtures	2	*	*	*	*
Printing, Publishing & Allied	8	8.1%	13.0%	12.4%	17.6%
Chemicals & Allied Products	5	*	10.0%	9.0%	*
Rubber & Plastic Products	22	8.6%	14.5%	15.0%	18.8%
Primary Metal Industries	6	12.5%	15.2%	14.1%	14.8%
Fabricated Metal Products	49	7.0%	13.8%	12.0%	17.0%
Industrial Machinery Computer Equip	15	4.4%	10.9%	10.7%	16.5%
Electronic & Other Electrical	11	9.7%	16.2%	13.0%	15.5%
Transportation Equipment	3	*	*	*	*
Measur, Anal & Control Instruments	2	*	*	*	*
Misc Manufacturing Industries	27	8.4%	13.2%	13.9%	16.5%

Voluntary Separations

Involuntary Separations

Industry Group	# Firms Reporting	25 th Percentile	Average	Median	75 th Percentile
All Industry Groups	158	3.8%	8.6%	7.0%	11.6%
Food & Kindred Products	5	*	15.5%	10.0%	*
Lumber & Wood ex Furniture	3	*	*	*	*
Furniture & Fixtures	2	*	*	*	*
Printing, Publishing & Allied	8	0.8%	4.1%	2.5%	6.6%
Chemicals & Allied Products	5	*	6.9%	5.0%	*
Rubber & Plastic Products	22	5.1%	10.4%	9.2%	15.0%
Primary Metal Industries	6	9.3%	10.9%	10.6%	13.3%
Fabricated Metal Products	49	3.0%	8.2%	5.0%	12.0%
Industrial Machinery Computer Equip	15	2.4%	7.1%	5.2%	9.6%
Electronic & Other Electrical	11	5.2%	11.3%	10.0%	14.5%
Transportation Equipment	3	*	*	*	*
Measur, Anal & Control Instruments	2	*	*	*	*
Misc Manufacturing Industries	27	4.3%	7.0%	6.4%	8.8%

Total Separation Rates (Voluntary & Involuntary)

Industry Group	# Firms Reporting	25 th Percentile	Average	Median	75 th Percentile
All Industry Groups	161	14.0%	22.3%	20.0%	28.0%
Food & Kindred Products	5	*	36.0%	28.7%	*
Lumber & Wood ex Furniture	3	*	*	*	*
Furniture & Fixtures	2	*	*	*	*
Printing, Publishing & Allied	8	9.8%	17.1%	15.1%	22.7%
Chemicals & Allied Products	5	*	16.9%	16.0%	*
Rubber & Plastic Products	23	17.9%	25.0%	23.0%	31.4%
Primary Metal Industries	7	22.6%	29.0%	25.2%	38.0%
Fabricated Metal Products	49	14.0%	22.1%	19.0%	28.0%
Industrial Machinery Computer Equip	15	9.0%	18.0%	14.7%	28.0%
Electronic & Other Electrical	12	17.5%	26.5%	20.0%	27.4%
Transportation Equipment	3	*	*	*	*
Measur, Anal & Control Instruments	2	*	*	*	*
Misc Manufacturing Industries	27	14.0%	20.2%	19.0%	25.0%

General Comments

If you have any questions about this report or any of the data reported, feel free to contact the survey sponsor directly:

Kirby Sneen Manufacturers Alliance 763-533-8239 kirbys@mfrall.com

Compensation Practices

Compensation Adjustments

Average Percent Wage/Salary Adjustment

Participating companies reported actual 2024 and budgeted 2025 pay increases by employee group. The average budgeted 2024 pay increase data are from last year's survey results. See details in the table and chart below.

Note the results in the chart following the table exclude firms reporting no planned pay adjustments (zero percent).

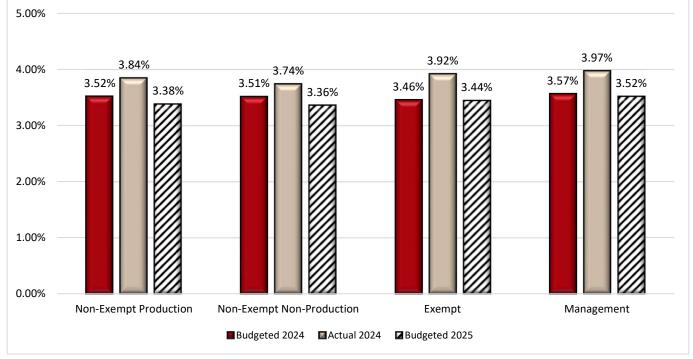
	Pay Adjustments INCLUDING Zero (0%) Adjustments				ustments EXC (0%) Adjustm	
Employee Group	# Firms Reporting	Average	Median	# Firms Reporting	Average	Median
NEx Production – Budgeted 2024	169	3.5%	3.5%	169	3.5%	3.5%
NEx Production – Actual 2024	165	3.7%	3.5%	159	3.8%	3.5%
NEx Production – Budgeted 2025	157	3.3%	3.2%	153	3.4%	3.5%
NEx Non-Production – Budgeted 2024	164	3.5%	3.5%	164	3.5%	3.5%
NEx Non-Production – Actual 2024	161	3.6%	3.5%	153	3.7%	3.5%
NEx Non-Production – Budgeted 2025	153	3.3%	3.0%	148	3.4%	3.2%
Exempt – Budgeted 2024	167	3.5%	3.5%	167	3.5%	3.5%
Exempt – Actual 2024	162	3.7%	3.5%	153	3.9%	3.5%
Exempt – Budgeted 2025	155	3.3%	3.5%	149	3.4%	3.5%
Management – Budgeted 2024	163	3.6%	3.5%	163	3.6%	3.5%
Management – Actual 2024	159	3.6%	3.5%	146	4.0%	3.5%
Management – Budgeted 2025	152	3.4%	3.2%	146	3.5%	3.5%

Exempt - Employees exempt from the overtime provisions of the Fair Labor Standards Act (FLSA).

Non-Exempt Non-Production – Non-production employees subject to the overtime provisions of the FLSA.

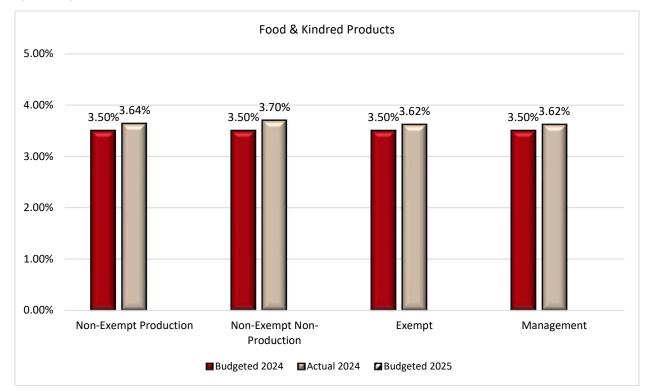
Non-Exempt Production - Employees in production-oriented positions and subject to the overtime provisions of the FLSA.

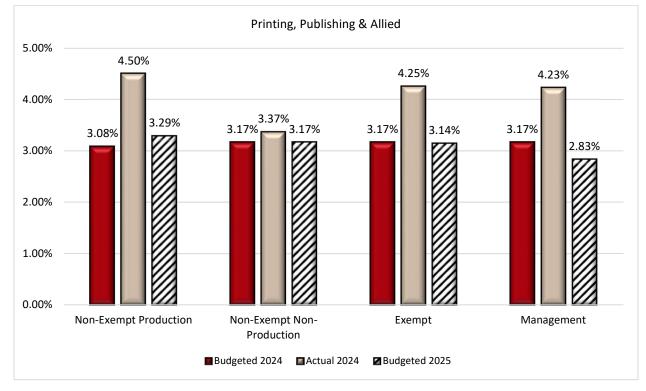
Temporary ("Temps") - Workers hired (either contracted through an employment agency or hired directly) to work for a specific period of time.



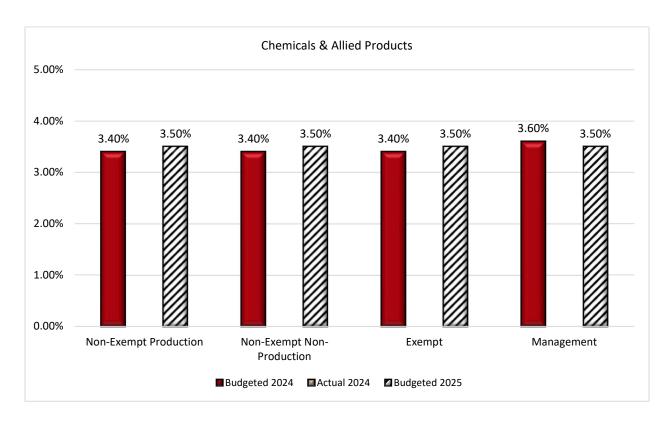
Average Percent Wage/Salary Adjustment by Industry

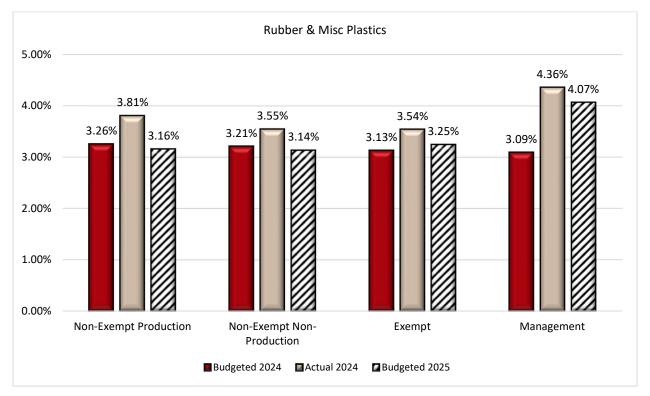
The following nine charts indicate the average percent pay adjustments, including (as reportable) budgeted 2024, actual 2024 and budgeted 2025, by industry. Average budgeted 2024 pay increase data are from last year's results. Adjustments exclude zero percent reported adjustments. Results are not shown for industries where fewer than five participants reported information.



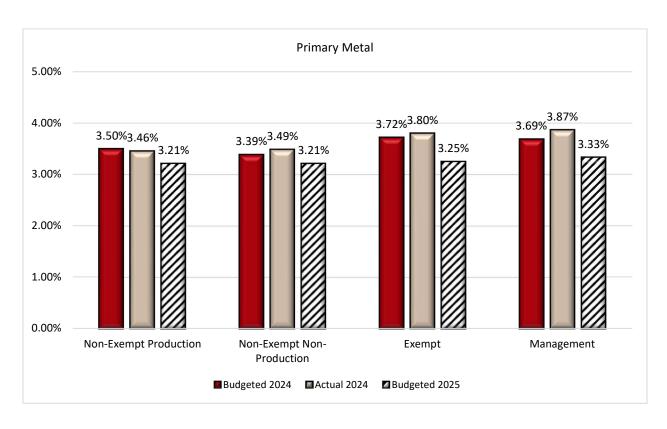


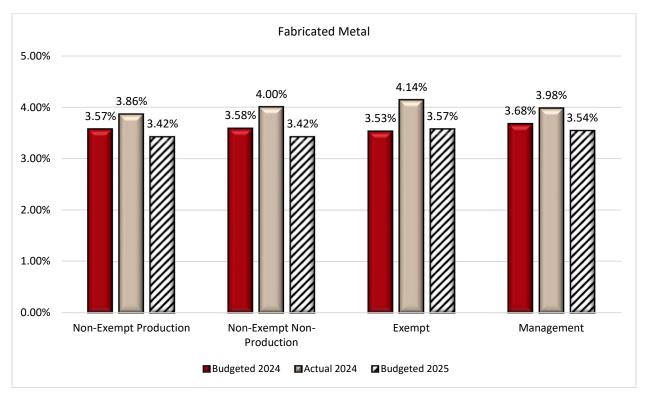


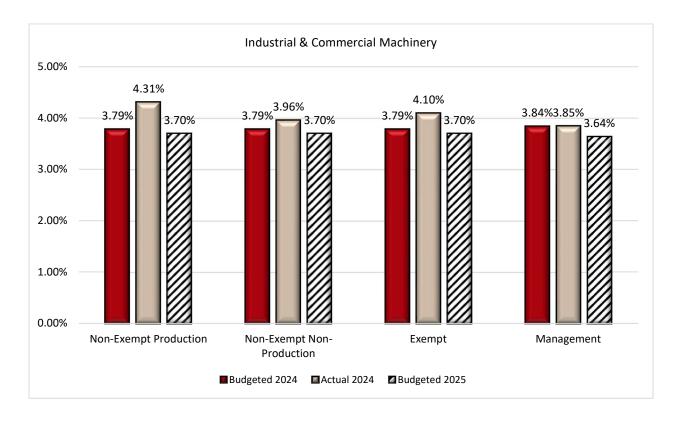


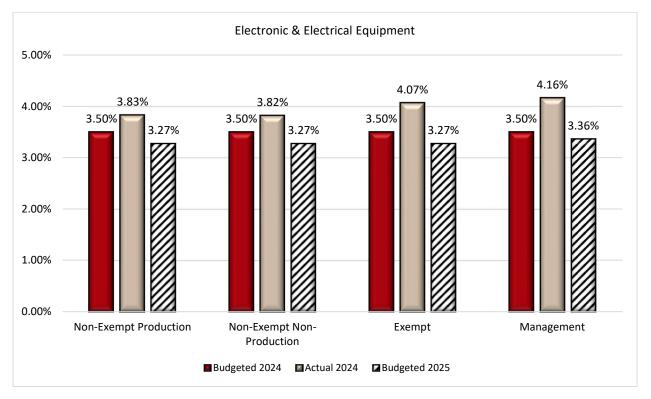


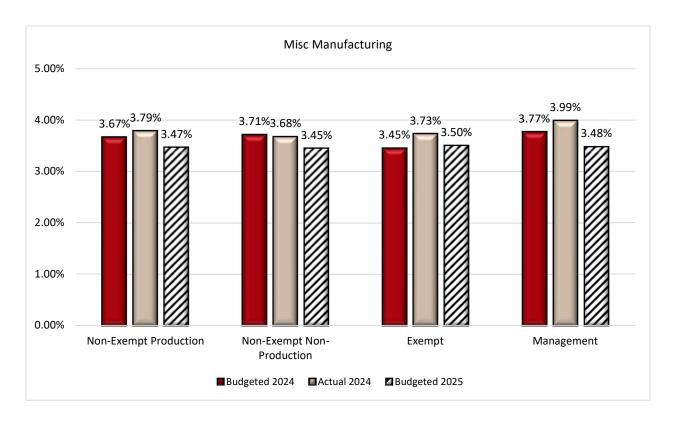












Workforce Trends

Leadership Skills

Participants rank ordered a set of eight leadership skills, plus an Other category, in a manner that reflects their company's leadership development objectives and priorities. The ranking was completed by assigning "1" to the most needed (and "8" or "9" to the least needed) in the set. Additionally, seven of the responding firms used the Other category to add another skill to their ranking set.

The table below displays the results of the ranking, where the lowest "average score" indicates the highest number of "1's" (most needed skill), "2's" and "3's" were awarded.

Leadership Skill	Average Score
Communicates clearly	3.05
Solves problems	3.47
Drives for results	3.66
Takes initiative	4.82
Builds relationships	5.17
Champions change	5.30
Trains others effectively	5.33
Sets goals	5.42

The Other skills noted and ranked by participants are listed in the table that follows. Note that every table row represents the Other description and ranking of one participant.

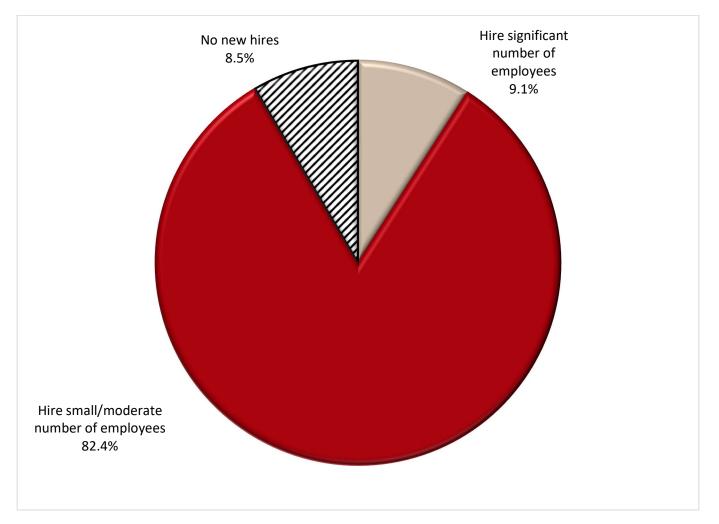
Other Leadership Skill	Ranking
Builds trust up, down, and across	1.00
Collaboration	1.00
Manages with empathy	1.00
Emotional intelligence in the workplace	2.00
Accountability	9.00
Strategic planning	9.00
Treats employees respectfully	9.00

Workforce Practices

Hiring Plans in 2025

Hiring plans in 2025 have shifted just slightly from 2024. The percent of those who are planning no new hires for this year has decreased from 9.9% to 8.5%. Plans to hire a significant number of employees are reported by 9.1% for 2025, down slightly from 9.3% in 2024, while plans to hire a small/moderate number are up from 80.8% in 2024 to 82.4% in 2025.

The chart below summarizes the 2025 hiring plans.

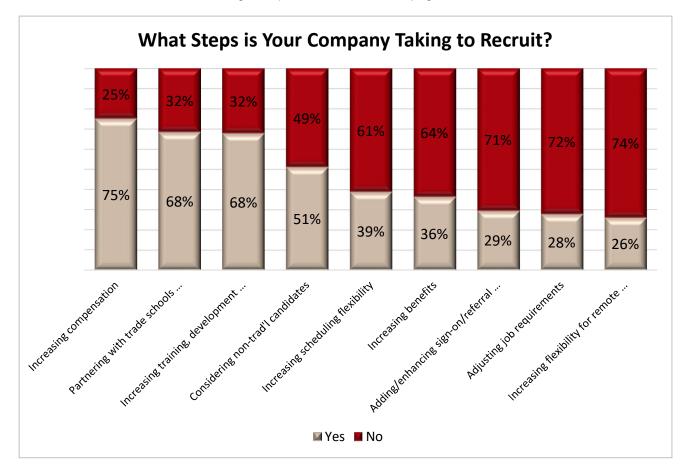


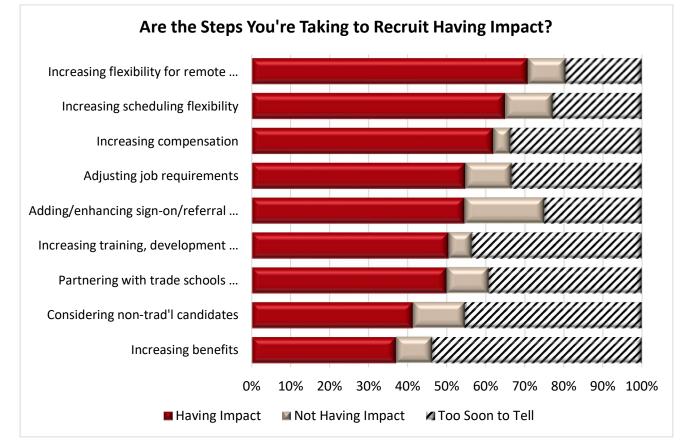
Steps Being Taken to RECRUIT Employees

Participants this year responded to a list of potential steps (noted below) being taken to <u>recruit</u> employees in the current labor market, indicating which ones they are taking, sharing any "other" steps they are pursuing and reporting whether their steps are having an impact on recruitment.

- Increasing compensation
- Increasing benefits
- Increasing scheduling flexibility
- Increasing flexibility for remote work
- Increasing training, development and/or mentoring opportunities
- Adding or enhancing sign-on or referral bonuses
- Adjusting job requirements
- Considering non-traditional candidates
- Partnering with trade schools, colleges or other entities

The chart immediately below summarizes the prevalence of the different steps among participating companies and the chart that follows it highlights their responses about whether each step taken is having an impact on recruiting success. Observations about the findings are presented on the next page.





Other Recruiting Steps Reported:

- Condensed work schedules: 4/10 & 9/81 1 participant (having impact).
- More passive sourcing of candidates 1 participant (impact not reported).
- Relocation programs 1 participant (having impact).
- Using high caliber temp agency for machinists 1 participant (having impact).
- Utilizing temp to hire 1 participant (impact not reported).

The top five steps taken to recruit employees in 2025 are the same ones that we saw in 2024, but we see some shifts. *Increasing compensation* increased the most in frequency of reporting, from 71% to 75%. The steps with greatest impact are also the same as those reported in 2024 with a few switches in their order. We do observe that the percent of companies reporting these steps as having an impact on recruiting has dropped for the majority of them (with *scheduling flexibility* dropping the most from 82% to 65%). Only *adjusting job requirements* showed an increase in reported impact, from 49% to 55%.

We see the industry continuing to work at identifying and embracing opportunities for flexibility, but perhaps as flexible and remote work arrangements become more common their impact on recruiting success is less than what it was a year or two ago. Compensation continues to be the most popular step, albeit with its reported impact slightly reduced.

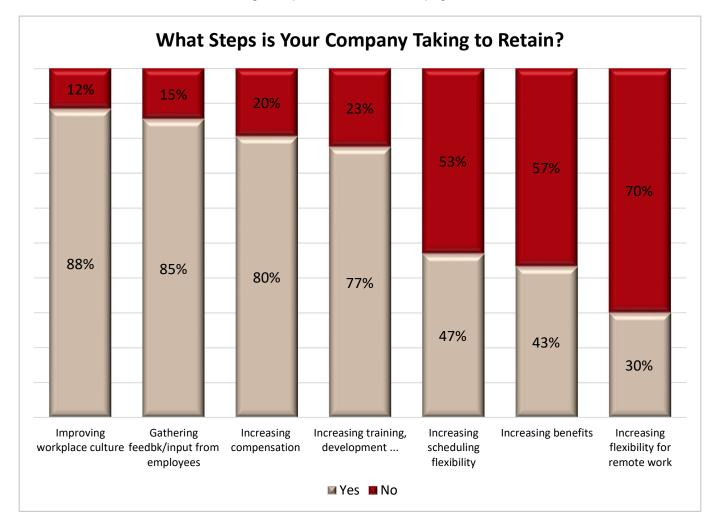
Most Popular Steps	% Firms Reporting	Steps with Greatest Impact	% Firms Reporting
Increasing compensation	75%	Increasing flexibility for remote	71%
Partnering with trade schools	68%	Increasing scheduling flexibility	65%
Increasing training, development	68%	Increasing compensation	62%
Considering non-trad'l candidates	51%	Adjusting job requirements	55%
Increasing scheduling flexibility	39%	Adding/enhancing sign-on/referral	55%

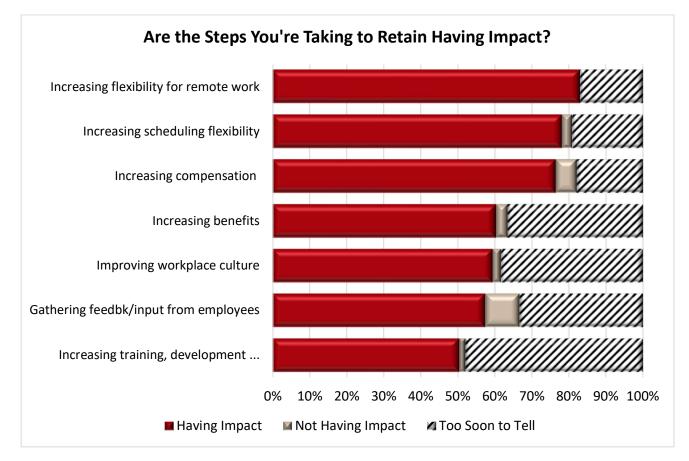
Steps Being Taken to RETAIN Employees

Participants this year responded to a list of potential steps (noted below) being taken to <u>retain</u> employees in the current labor market, indicating which ones they are taking, sharing any "other" steps they are pursuing and reporting whether their steps are having an impact on retention.

- Increasing compensation
- Increasing benefits
- Increasing scheduling flexibility
- Increasing flexibility for remote work
- Increasing training, development and/or mentoring opportunities
- Gathering feedback and input from employees
- Improving workplace culture

The chart immediately below summarizes the prevalence of the different steps among participating companies and the chart that follows it highlights their responses about whether each step taken is having an impact on retention success. Observations about the findings are presented on the next page.





Other Retention Steps Reported:

- Improved leadership training 1 participant (having impact).
- Increasing communication 1 participant (too soon to tell).

In comparing the steps being taken to retain employees in 2025 to those from 2024, we see the top 5 choices remaining the same, with some shuffling in their order. We find *increasing compensation* moving from 4th place to 3rd and *increasing training, development and/or mentoring opportunities* from 3rd place to 4th. In examining the steps having the highest impact on retention, we see *increasing flexibility for remote work* gains 3% and moves from 2nd into 1st place. *Gathering feedback/input from employees*, while holding its place as the 2nd most popular step being taken, drops out of the top five steps with greatest impact and has been replaced there by *increasing benefits*.

It is interesting to see, as we did in 2024, that the most popular steps being taken to retain employees – improving workplace culture and gathering employee input – are not the steps reported as delivering the greatest impact on retention. We find it hard to argue against efforts to gather employee input and improve the culture; it may be that these initiatives present their own challenges or that their impact is simply more difficult to measure. Rewards – in this case compensation and benefits – seem to continually hold a key place in the retention equation, though they're rarely at the top of either list (popularity or impact).

Most Popular Steps	% Firms Reporting	Steps with Greatest Impact	% Firms Reporting
Improving workplace culture	88%	Increasing flexibility for remote work	83%
Gathering feedbk/input from employees	85%	Increasing scheduling flexibility	78%
Increasing compensation	80%	Increasing compensation	76%
Increasing training, development	77%	Increasing benefits	60%
Increasing scheduling flexibility	47%	Improving workplace culture	59%

Positions Affected by Compensation Increases

Those participants who reported increasing compensation as a step being taken to recruit or retain employees in today's labor market were also asked which positions are being affected by the increase. 64.4% of responding organizations reported that the increase of compensation affects all positions company-wide. 35.6% reported that the increase affects certain positions and skills. The second group was asked to note which positions and skills are impacted by the increases; these are reported below either in the table (which features the positions and skills reported by 2 or more participants) or the list of other mentions that follows.

Production positions were the most frequently reported by a substantial margin.

Top Reported Positions and Skills	# Firms Reporting
Hourly/Direct Labor Production	15
Machinists/Machine Operators	5
Maintenance	3
Technical	3
Engineers	2
Forklift Operators	2
Warehouse	2
Welders	2

Other Positions and Skills (mentioned by 1 participant each):

Aircraft MechanicAssemblers

IT Positions

Customer Service

- Press Assistant/Operator
- Product Managers
- Route Delivery
- Shipping/Receiving
- Skilled Shop Positions

Operations Positions Painters

.

Types of Training Being Offered

Those participants who reported increasing training and development opportunities as a step being taken to improve recruitment and/or retention in today's labor market were also asked about the type(s) of training being offered by their companies. A summary of the training offerings reported is presented in the table below.

Type of Training Being Offered	% Firms Reporting
Management/leadership	83%
Technical skills	82%
Compliance/quality	63%
Soft skills	61%
Problem solving	52%
Other	7%

Other Training Being Offered:

- Mentorship and coaching 1 participant.
- Safety training 1 participant.

Ideal Number of Direct Reports for Manufacturing Leadership Roles

Participants were asked to report what their company considers to be an ideal number of direct reports for three manufacturing leadership positions. Their responses are presented in the table below. Note that responses of "0" direct reports are not included in the table.

	# Firms Reporting	25 th Percentile	Average	Median	75 th Percentile
Manager (e.g. Manufacturing Manager, Operations Manager, Production Manager, etc.)	127	5	10	7	10
Supervisor (e.g. Production Supervisor, Shift Supervisor, etc.)	126	8	14	10	20
Lead (e.g., Assembly Lead, Welding Lead, Machine Operations Lead, etc.)	101	5	8	8	10

Survey Participants

Alphabetical Participant List

7-SIGMA Incorporated Aagard Action Plastics. Inc. Advanced Molding Technologies, LLC Aggressive Hydraulics, Inc. Air Quality Engineering Ajax Metal Forming Solutions, LLC American Flexible Products American Time and Signal Company Analog Technologies Corporation Andersen Corporation Anderson Dahlen Andrew Tool & Machining Company apg Cash Drawer Arc Precision Astro Metal Craft Atlas Manufacturing Atrix International, Inc. Aurora Pharmaceutical Aveda Corporation AVEKA Group, Inc. **Banner Engineering** Bauer Welding & Metal Fabricators. Inc. Beacon EmbeddedWorks Bermo, Inc. **Birchwood Laboratories Bondhus Corporation** Branches LLC BTD Manufacturing Inc. C4 Welding, Inc. Cannon Equipment Carley Foundry Inc. Chandler Exhibits, Inc. **Chandler Industries LLC** Clarus Medical **Clow Stamping Company** Conagra Brands Conagra Brands - Mankato Conductive Containers Inc. Continental Machines dba DoALL Sawing Products Cretex Companies Inc. Croix Gear **CWMF** Corporation Daikin Applied Americas, Inc. Data Metalcraft, Inc. DCI, Inc. **Diamond Graphics** Distinctive Floral Company dba Len Busch Roses **Dynamic Group** EDCO Products Electronics Systems Inc. Elemet Group

EMERGE Enterprises Emerson **Engage Technologies Corporation Engineered Products Company EPG** Companies FasTest Inc. Featherlite Trailer Manufacturing Federal Package Network, Inc. Garfield Truss Company Gemini, Inc. GF Building Flow Solutions dba Uponor, Inc. **Global Finishing Solutions** GLS Companies Inc. dba ENPOINTE Gopher Resource Graco Inc. H.B. Fuller Company **HBI** Amerilab Technologies Health Systems Cooperative Laundries Horton Inc. ICA Corporation IDC Group, Inc. ILLUME Industrial Netting Inc. In'Tech Industries Inc. Integreon Global, Inc. Intek Plastics LLC International Precision Machining, Inc. IPS Cranes, Inc. J&B Group, Inc. Japs-Olson Company, LLC Jet Edge Waterjet Systems John Henry Foster MN Inc. Johnson Screens, Inc. Jonaco Machine Kasco Marine, Inc. Kendall Howard Kurt Manufacturing Company La Machine Shop, Inc. Lake Air Products LasX Industries, Inc. Lexington Manufacturing LimPro Metal Fabrication Lincoln Industries of MN LISI MEDICAL Remmele Loram Maintenance of Way Lowell Inc. Mactech. Inc. Marshall Manufacturing Company Mate Precision Technologies Mathias Die Company Mercury Micro-Matics Inc.

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Ellicott Dredge Technologies Mikros Engineering, Inc. Miller Manufacturing Minnesota Grinding Modern Molding Inc. Modernistic, Inc. MRG Tool and Die National Checking Company Nortech Systems Inc. nVent Nvstrom Olsen Tool & Plastics, Inc. Olympus Corporation of the Americas **Opportunity Partners** Pallet Service Corporation Park Industries Phillips & Temro Industries, Inc. PHS West LLC **Pinnacle Climate Technologies** Placon Plymouth Industries, Inc. PNE Inc. dba IRD Glass dba IRD Ceramics Polaris Inc. Precision Associates, Inc. Precision Coatings, Inc. Precision Gasket Company dba PGC Premium Waters, Inc. Pride Solutions LLC Process Displays LLC Product Development Solutions, Inc. **Production Engineering Corporation** Rapid Packaging, Inc. **RC Smith Company Rice Lake Weighing Systems** Rotation Engineering & Manufacturing

Midwest Rubber Service and Supply Company Satellite Industries Inc. Schreiber Foods Senneca Holdings Showdown Displays Sightline Commercial Solutions SkyWater Technology Sportech, LLC SPS Works St Croix Forge Inc. - Mustad USA Stylmark. Inc. T.O. Plastics TCLAD, Inc. **Tennant Company Tescom Corporation** The Imagine Group The Pinske Edge The Specialty Manufacturing Company Tjernlund Products, Inc. **TT Electronics** Twin City Die Castings Company Twin City Plating United States Distilled Products Company Unity Precision Manufacturing Velosity Viking Engineering Wagner SprayTech Whirltronics, Inc. Wilson Tool International. Inc. Wilson Wolf Manufacturing, LLC Windings, Inc. Wipaire Zero Zone Refrigeration LLC Zero-Max Zirc Dental Products

Total Participant Count: 174

Participants by Industry Type

Food & Kindred Products (5 participants) Conagra Brands - Mankato J&B Group, Inc. Premium Waters, Inc.	Schreiber Foods United States Distilled Products Company
Lumber & Wood except Furniture (3 participants) Garfield Truss Company Lexington Manufacturing	Pallet Service Corporation
Furniture & Fixtures (2 participants) Chandler Exhibits, Inc.	RC Smith Company
Printing, Publishing & Allied (9 participants) Conagra Brands Diamond Graphics GLS Companies Inc. dba ENPOINTE Japs-Olson Company, LLC Modernistic, Inc.	National Checking Company Process Displays LLC SPS Works The Imagine Group
Chemicals & Allied Products (5 participants) Aurora Pharmaceutical Aveda Corporation AVEKA Group, Inc.	H.B. Fuller Company HBI Amerilab Technologies
Rubber & Plastic Products (23 participants) 7-SIGMA Incorporated Action Plastics, Inc. Advanced Molding Technologies, LLC American Flexible Products Conductive Containers Inc. Dynamic Group GF Building Flow Solutions dba Uponor, Inc. Industrial Netting Inc. In'Tech Industries Inc. Intek Plastics LLC Midwest Rubber Service and Supply Company Mikros Engineering, Inc.	Modern Molding Inc. Olsen Tool & Plastics, Inc. Placon Precision Associates, Inc. Precision Gasket Company dba PGC Pride Solutions LLC Satellite Industries Inc. Sportech, LLC T.O. Plastics Velosity Zirc Dental Products
Clow Stamping Company	IDC Group, Inc. Johnson Screens, Inc. Twin City Plating

Fabricated Metal Products (53 participants)

Air Quality Engineering Ajax Metal Forming Solutions, LLC Anderson Dahlen Arc Precision Astro Metal Craft Atlas Manufacturing Bauer Welding & Metal Fabricators, Inc. Bermo, Inc. **Bondhus Corporation** BTD Manufacturing Inc. C4 Welding, Inc. Cannon Equipment Chandler Industries LLC Croix Gear Data Metalcraft, Inc. DCI. Inc. EDCO Products Elemet Group **EMERGE** Enterprises FasTest Inc. Gemini. Inc. **Global Finishing Solutions ICA** Corporation International Precision Machining, Inc. Jonaco Machine Kendall Howard La Machine Shop, Inc.

Lake Air Products LimPro Metal Fabrication Lincoln Industries of MN Mate Precision Technologies Mathias Die Company Mercury Micro-Matics Inc. Minnesota Grinding MRG Tool and Die nVent Nystrom Precision Coatings, Inc. Product Development Solutions, Inc. Production Engineering Corporation **Rotation Engineering & Manufacturing** Senneca Holdings Sightline Commercial Solutions St Croix Forge Inc. - Mustad USA Stylmark, Inc. **Tescom Corporation** The Specialty Manufacturing Company Tjernlund Products, Inc. Twin City Die Castings Company Unity Precision Manufacturing Whirltronics, Inc. Wipaire

Industrial Machinery & Computer Equipment (16 participants)

Aagard Atrix International, Inc. Continental Machines dba DoALL Sawing Products CWMF Corporation Daikin Applied Americas, Inc. Ellicott Dredge Technologies Engage Technologies Corporation IPS Cranes, Inc. Jet Edge Waterjet Systems Park Industries PHS West LLC Rice Lake Weighing Systems Tennant Company Viking Engineering Wilson Tool International, Inc. Zero Zone Refrigeration LLC

Electronic & Other Electrical (12 participants)

American Time and Signal Company Analog Technologies Corporation Banner Engineering Beacon EmbeddedWorks Electronics Systems Inc. Engineered Products Company

Transportation Equipment (3 participants)

Featherlite Trailer Manufacturing Loram Maintenance of Way EPG Companies LasX Industries, Inc. Nortech Systems Inc. SkyWater Technology TCLAD, Inc. Windings, Inc.

Polaris Inc.

Measuring, Analyzing & Controlling Instruments (4 participants)

Clarus Medical Emerson Olympus Corporation of the Americas TT Electronics

Misc Manufacturing Industries (32 participants)

Aggressive Hydraulics, Inc. Andersen Corporation Andrew Tool & Machining Company apg Cash Drawer **Birchwood Laboratories** Branches LLC Distinctive Floral Company dba Len Busch Roses Federal Package Network, Inc. Graco Inc. Health Systems Cooperative Laundries Horton Inc. ILLUME Integreon Global, Inc. John Henry Foster MN Inc. Kasco Marine, Inc. Kurt Manufacturing Company

LISI MEDICAL Remmele Lowell Inc. Mactech, Inc. Marshall Manufacturing Company Miller Manufacturing **Opportunity Partners** Phillips & Temro Industries, Inc. **Pinnacle Climate Technologies** Plymouth Industries, Inc. PNE Inc. dba IRD Glass dba IRD Ceramics Rapid Packaging, Inc. Showdown Displays The Pinske Edge Wagner SprayTech Wilson Wolf Manufacturing, LLC Zero-Max

Participants by Number of Company Employees

Note: Participants were classified into an employee size group according to the total number of employees reported. Size groups were structured to establish five groups of approximately equal numbers of participants and by significant breaks in size. Each group represents roughly twenty percent of all survey participants.

Group 1: Less than 50 Total Employees (32 participants)

7-SIGMA Incorporated Action Plastics, Inc. Air Quality Engineering American Flexible Products Andrew Tool & Machining Company Arc Precision Atrix International. Inc. **Branches LLC EMERGE** Enterprises **EPG** Companies Garfield Truss Company Industrial Netting Inc. International Precision Machining, Inc. IPS Cranes, Inc. Jet Edge Waterjet Systems La Machine Shop, Inc.

Group 2: 50 to 99 Total Employees (43 participants)

Ajax Metal Forming Solutions, LLC American Time and Signal Company Analog Technologies Corporation apg Cash Drawer Astro Metal Craft AVEKA Group, Inc. Bauer Welding & Metal Fabricators, Inc. Beacon EmbeddedWorks **Birchwood Laboratories** C4 Welding, Inc. **Cannon Equipment** Clarus Medical Conductive Containers Inc. Continental Machines dba DoALL Sawing Products Croix Gear **CWMF** Corporation Data Metalcraft. Inc. Ellicott Dredge Technologies FasTest Inc. Federal Package Network, Inc. In'Tech Industries Inc. Kasco Marine, Inc.

LimPro Metal Fabrication Marshall Manufacturing Company Mercury Micro-Matics Inc. Minnesota Grinding Olsen Tool & Plastics, Inc. PHS West LLC Precision Coatings, Inc. Pride Solutions LLC **RC Smith Company** Rotation Engineering & Manufacturing SPS Works The Pinske Edge Twin City Plating Unity Precision Manufacturing Wilson Wolf Manufacturing, LLC

Kendall Howard LasX Industries, Inc. Lincoln Industries of MN Lowell Inc. Mactech. Inc. Mathias Die Company Midwest Rubber Service and Supply Company Modernistic, Inc. MRG Tool and Die **Pinnacle Climate Technologies** Plymouth Industries, Inc. PNE Inc. dba IRD Glass dba IRD Ceramics Precision Gasket Company dba PGC Product Development Solutions, Inc. **Production Engineering Corporation** Rapid Packaging, Inc. St Croix Forge Inc. - Mustad USA Tjernlund Products, Inc. Viking Engineering Zero-Max Zirc Dental Products

Group 3: 100 to 199 Total Employees (37 participants)

Advanced Molding Technologies, LLC Aggressive Hydraulics, Inc. Atlas Manufacturing Aurora Pharmaceutical Bermo, Inc. **Bondhus Corporation** Chandler Exhibits, Inc. **Conagra Brands** DCI, Inc. **Dynamic Group EDCO Products** Electronics Systems Inc. Elemet Group Engage Technologies Corporation **Engineered Products Company** GLS Companies Inc. dba ENPOINTE **HBI** Amerilab Technologies Horton Inc. **ICA** Corporation

IDC Group, Inc. ILLUME Integreon Global, Inc. John Henry Foster MN Inc. Jonaco Machine Mikros Engineering, Inc. Modern Molding Inc. National Checking Company Pallet Service Corporation Senneca Holdings Sightline Commercial Solutions Stylmark, Inc. T.O. Plastics TCLAD, Inc. **Tescom Corporation** Twin City Die Castings Company Whirltronics, Inc. Windings, Inc.

Group 4: 200 to 499 Total Employees (34 participants)

- Aagard Anderson Dahlen Aveda Corporation Carley Foundry Inc. **Chandler Industries LLC Clow Stamping Company** Conagra Brands - Mankato **Diamond Graphics** Distinctive Floral Company dba Len Busch Roses Featherlite Trailer Manufacturing **Global Finishing Solutions** Health Systems Cooperative Laundries Intek Plastics LLC Johnson Screens, Inc. Kurt Manufacturing Company Lake Air Products Lexington Manufacturing
- LISI MEDICAL Remmele Mate Precision Technologies Miller Manufacturing Nortech Systems Inc. Nystrom **Opportunity Partners** Park Industries Phillips & Temro Industries, Inc. Precision Associates, Inc. Process Displays LLC Sportech, LLC The Specialty Manufacturing Company United States Distilled Products Company Wagner SprayTech Wilson Tool International, Inc. Wipaire Zero Zone Refrigeration LLC

Group 5: Over 500 Total Employees (28 participants)

Andersen Corporation Banner Engineering BTD Manufacturing Inc. Cretex Companies Inc. Daikin Applied Americas, Inc. Emerson Gemini, Inc. GF Building Flow Solutions dba Uponor, Inc. Gopher Resource Graco Inc. H.B. Fuller Company J&B Group, Inc. Japs-Olson Company, LLC Loram Maintenance of Way

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Olympus Corporation of the Americas Placon Polaris Inc. Premium Waters, Inc. Rice Lake Weighing Systems Satellite Industries Inc. Schreiber Foods Showdown Displays SkyWater Technology Tennant Company The Imagine Group TT Electronics Velosity

Participants by Distance From Minneapolis

Group 1: Within 20 Miles of Minneapolis (92 Participants)

7-SIGMA Incorporated Advanced Molding Technologies, LLC Air Quality Engineering apg Cash Drawer Atlas Manufacturing Atrix International, Inc. AVEKA Group, Inc. Banner Engineering Bauer Welding & Metal Fabricators, Inc. Beacon EmbeddedWorks Bermo, Inc. **Birchwood Laboratories** Chandler Industries LLC Clarus Medical **Conagra Brands** Conductive Containers Inc. Continental Machines dba DoALL Sawing Products Distinctive Floral Company dba Len Busch Roses Dynamic Group **EMERGE** Enterprises Emerson Engage Technologies Corporation **Engineered Products Company EPG** Companies FasTest Inc. Federal Package Network, Inc. GLS Companies Inc. dba ENPOINTE **Gopher Resource** Graco Inc. H.B. Fuller Company **HBI** Amerilab Technologies Horton Inc. **ICA** Corporation IDC Group, Inc. ILLUME Industrial Netting Inc. In'Tech Industries Inc. Integreon Global, Inc. Jet Edge Waterjet Systems Johnson Screens, Inc. Jonaco Machine Kasco Marine, Inc. Kurt Manufacturing Company Lake Air Products LasX Industries, Inc. Lexington Manufacturing

LimPro Metal Fabrication Lowell Inc. Marshall Manufacturing Company Mathias Die Company Midwest Rubber Service and Supply Company Mikros Engineering, Inc. Minnesota Grinding Modern Molding Inc. National Checking Company Nystrom Olsen Tool & Plastics, Inc. Olympus Corporation of the Americas Pallet Service Corporation Phillips & Temro Industries, Inc. Placon Plymouth Industries, Inc. Precision Associates, Inc. Precision Coatings. Inc. Precision Gasket Company dba PGC Premium Waters, Inc. Process Displays LLC Product Development Solutions, Inc. Production Engineering Corporation Rapid Packaging, Inc. **RC Smith Company** Rotation Engineering & Manufacturing Satellite Industries Inc. Sightline Commercial Solutions SkyWater Technology SPS Works Stylmark, Inc. Tennant Company The Imagine Group The Specialty Manufacturing Company Tjernlund Products, Inc. TT Electronics Twin City Die Castings Company Twin City Plating Velosity Viking Engineering Wagner SprayTech Whirltronics. Inc. Wilson Tool International, Inc. Wilson Wolf Manufacturing, LLC Zero Zone Refrigeration LLC Zero-Max

Group 2: 20 to 45 Miles from Minneapolis (43 Participants)

Action Plastics, Inc. Aggressive Hydraulics, Inc. Ajax Metal Forming Solutions, LLC American Flexible Products Analog Technologies Corporation Andersen Corporation Anderson Dahlen Andrew Tool & Machining Company Arc Precision Astro Metal Craft Aurora Pharmaceutical Aveda Corporation **Bondhus Corporation** Cannon Equipment Carley Foundry Inc. Chandler Exhibits, Inc. Cretex Companies Inc. Croix Gear **Diamond Graphics** EDCO Products Ellicott Dredge Technologies Health Systems Cooperative Laundries Intek Plastics LLC J&B Group, Inc. Japs-Olson Company, LLC John Henry Foster MN Inc. LISI MEDICAL Remmele Loram Maintenance of Way Mate Precision Technologies Micro-Matics Inc. Modernistic. Inc. MRG Tool and Die nVent **Opportunity Partners** PHS West LLC Polaris Inc. Sportech, LLC St Croix Forge Inc. - Mustad USA TCLAD, Inc. **Tescom Corporation** Unity Precision Manufacturing Wipaire Zirc Dental Products

Group 3: 45 to 70 Miles from Minneapolis (26 Participants)

- American Time and Signal Company Branches LLC C4 Welding, Inc. Conagra Brands - Mankato CWMF Corporation Daikin Applied Americas, Inc. Data Metalcraft, Inc. DCI, Inc. Elemet Group Gemini, Inc. GF Building Flow Solutions dba Uponor, Inc. Kendall Howard La Machine Shop, Inc.
- Lincoln Industries of MN Mactech, Inc. Mercury Miller Manufacturing Pinnacle Climate Technologies PNE Inc. dba IRD Glass dba IRD Ceramics Polaris Inc. - Osceola Pride Solutions LLC Showdown Displays T.O. Plastics The Pinske Edge United States Distilled Products Company Windings, Inc.

Group 4: More than 70 Miles from Minneapolis (15 Participants)

Aagard BTD Manufacturing Inc. Clow Stamping Company Electronics Systems Inc. Featherlite Trailer Manufacturing Garfield Truss Company Global Finishing Solutions International Precision Machining, Inc. IPS Cranes, Inc. Nortech Systems Inc. Park Industries Polaris Inc. - Roseau Rice Lake Weighing Systems Schreiber Foods Senneca Holdings