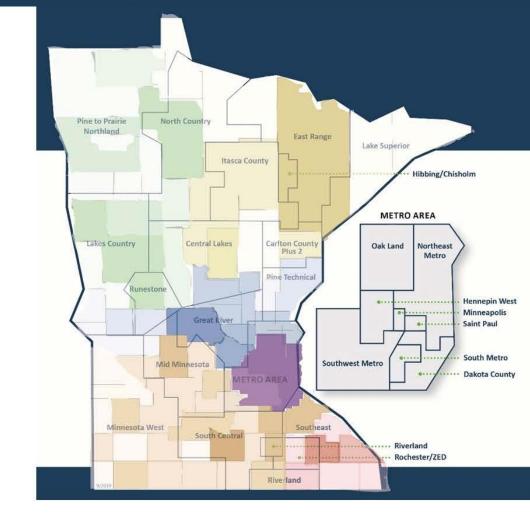
# 2024 Regional Career Trends

For Career and Technical Education

Erin Olson, Senior Director of Strategic Research Catherine Jett, Research Strategist Melinda Fierro, Research Strategist





The contents of this series were made possible through the Strengthening Career and Technical Education for the 21st Century Act (Perkins V) Federal grant from the United States Department of Education administered through Minnesota State Colleges and Universities.



# **ABOUT US**



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# REALTIME TALENT'S APPROACH

https://www.menti.com/alyj495wj9fd

To create more informed and efficient market-oriented decisions throughout the Minnesota workforce and education ecosystem by engaging a broad set of stakeholders

#### Core Capabilities:

- Current labor market research, insights, forecasts
- Data Tool Support Services
- Talent Pipeline Management

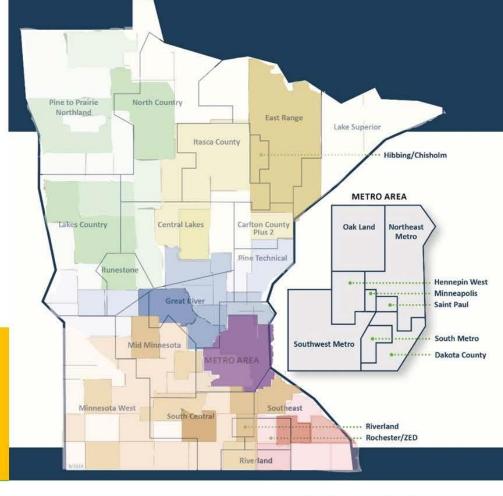




# 2024 Regional Career Trends

For Career and Technical Education

Northwest Northeast



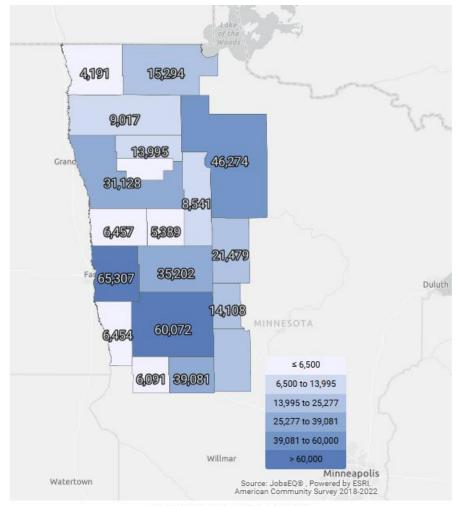


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# Population

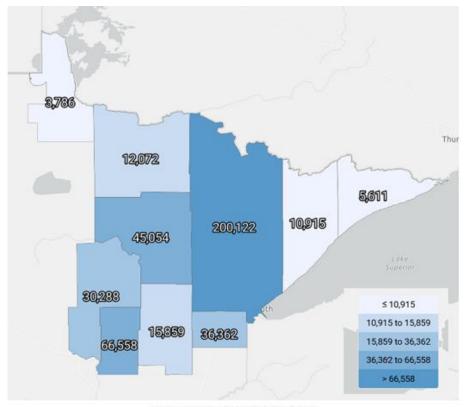
#### **Resident Population of Northwest Minnesota**



#### American Community Survey 2018-2022.

# Northeast Northwest

#### **Resident Population of Northeast Minnesota**



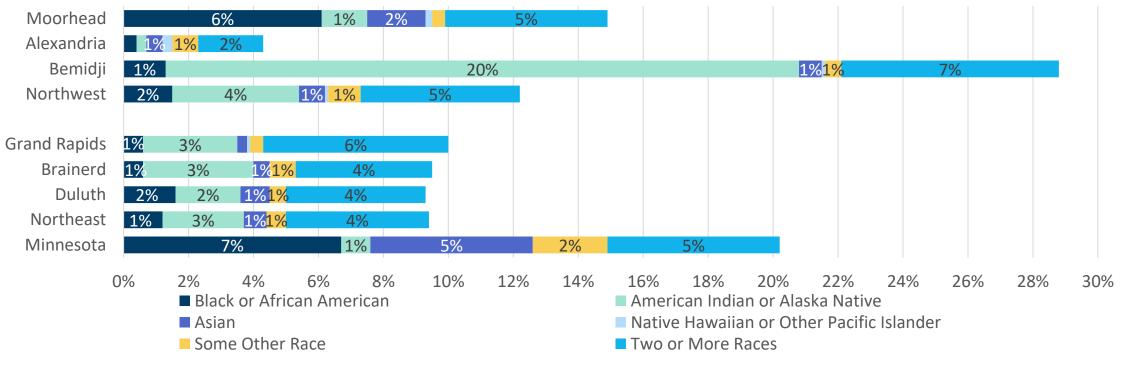
American Community Survey 2018-2022.



# Population Demographics

# Northeast Northwest

#### Population Race of BIPOC Residents by Race, All Ages



#### **Race and Ethnicity Summary Info**

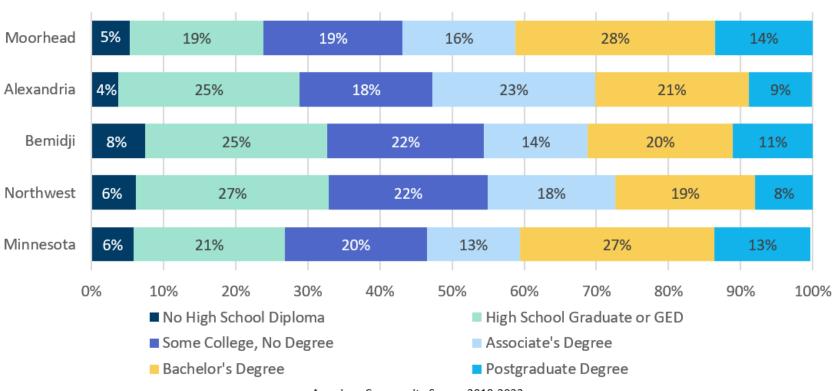
	% BIPOC by	% white by	% Hispanic/ Latine
Geography	Race	Race	Ethnicity
Northeast	9.3%	90.7%	1.8%
Northwest	12.2%	87.8%	3.8%



# Educational Attainment

## Northwest

#### **Educational Attainment, Age 25-64**



11 Postsecondary Institutions

6,116
postsecondary
awards conferred
(SY2022-23)

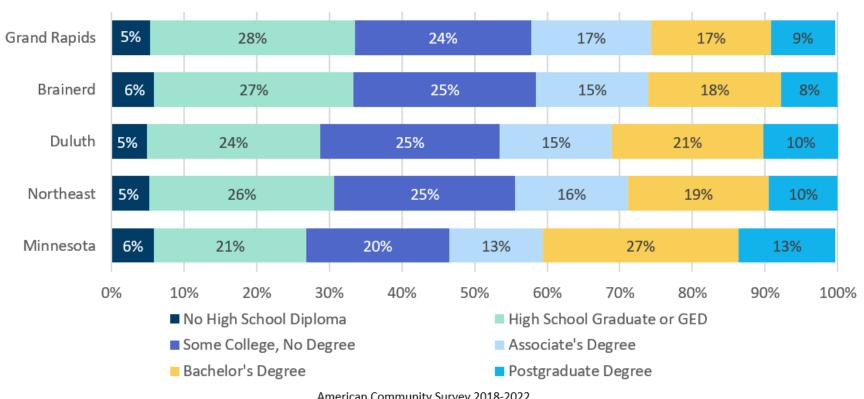
American Community Survey 2018-2022.



# Educational Attainment

## Northeast

#### **Educational Attainment, Age 25-64**



7 Postsecondary Institutions

6,618 postsecondary awards conferred (SY2022-23)

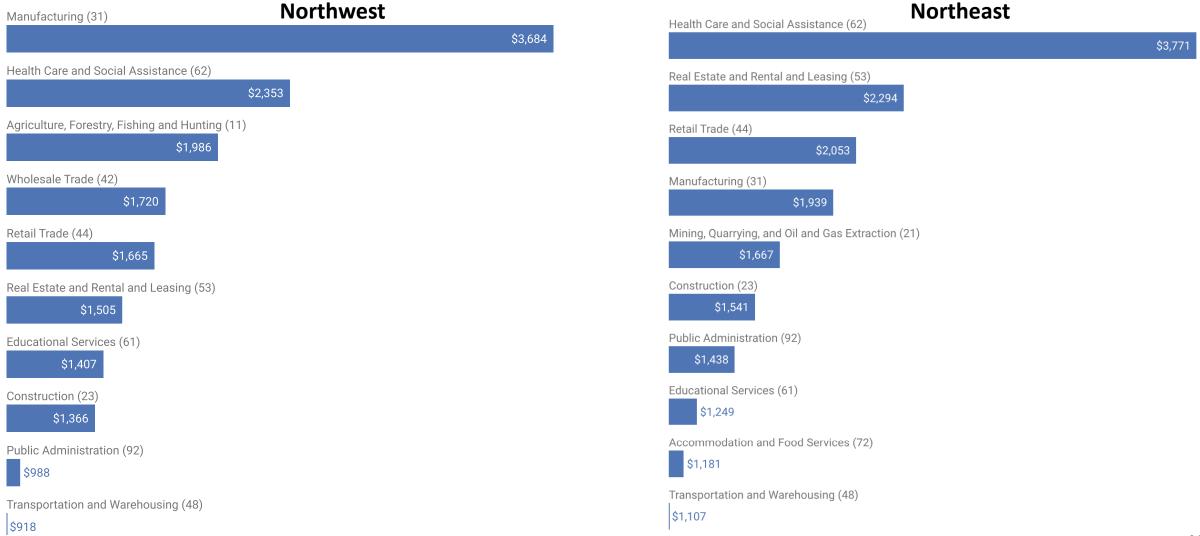
American Community Survey 2018-2022.



# **Economic Growth**

# Northwest

#### Industry Contributions to GDP (in \$ Millions), 2023



# Labor Force Participation and Unemployment

# Northeast Northwest

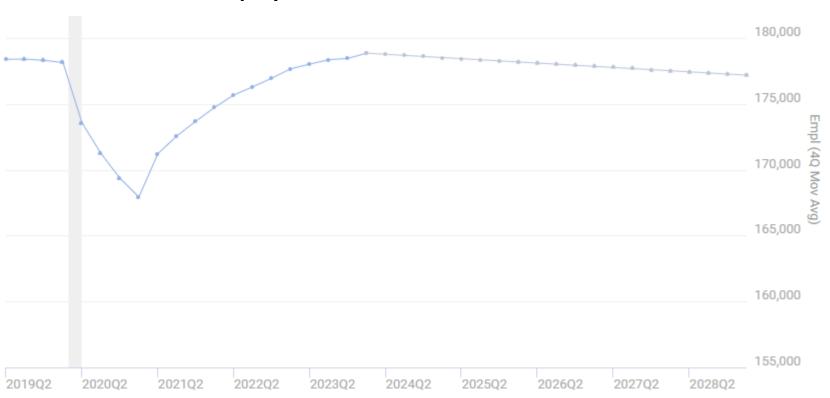
	Northwest	Northeast	Minnesota		
Civilian Labor Force	210,417	208,279	3,112,649		
Labor Force Participation Rate	63.9%	59.0%	68.7%		
Prime Working-Age Participation Rate (ages 25-54)	86.8%	84.8%	88.4%		
Unemployment, June 2024 (compared to June 2023)	4.0% (3.3% in 2023)	4.4% (3.9% in 2023)	3.8% (2.9% in 2023)		



# Labor Market Forecast: Workforce

## Northwest

#### 5-Year Employment Forecast in Northwest Minnesota



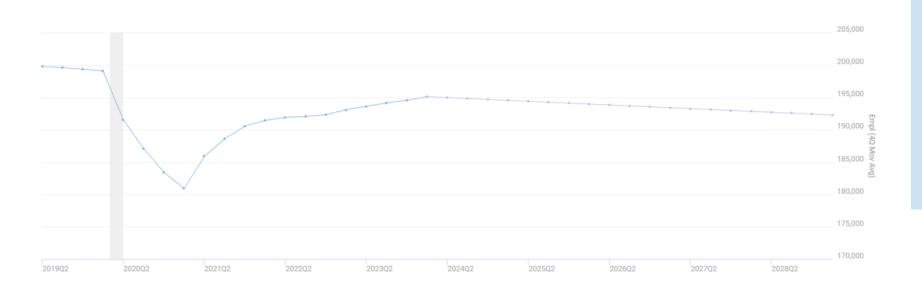
Average annual forecast of **-0.2%** change in employment cross all positions



# Labor Market Forecast: Workforce

## Northeast

#### 5-Year Employment Forecast in Northeast Minnesota



Average annual forecast of **-0.3%** change in employment cross all positions



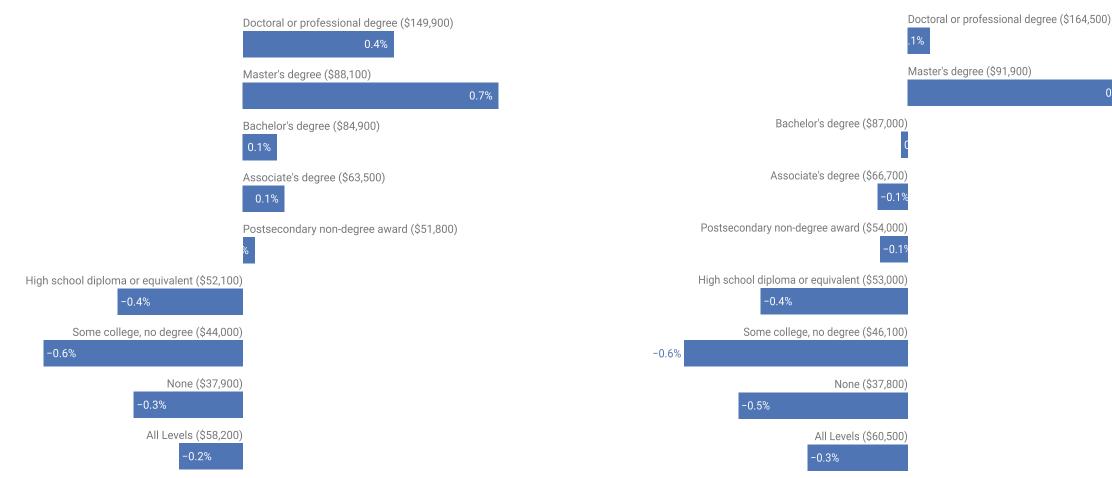
# Quantifying Talent Shortages Forecast: The Role of Education

# Northeast Northwest

Annual Average Projected Job Growth by Education Required

Northwest

Northeast

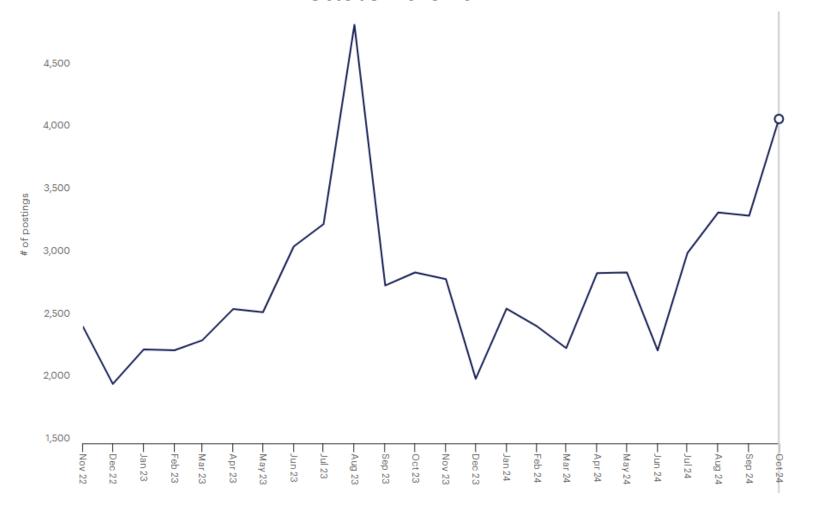


0.7%

# Job Posting Trends in Northeast MN

# Northeast





Peak posting Month:

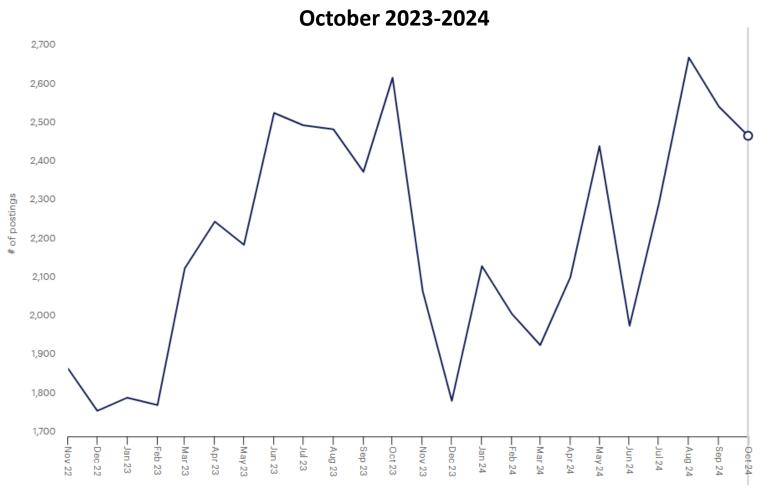
August 2023



# Job Posting Trends in Northwest MN

# Northwest





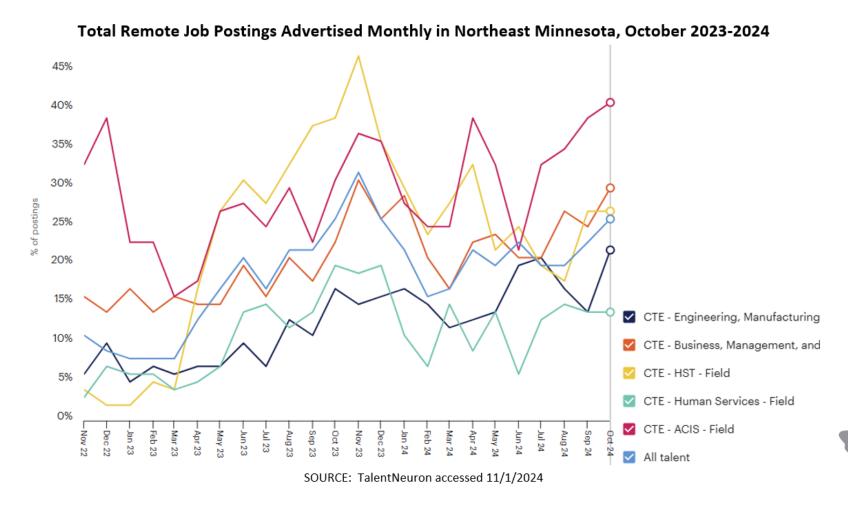
Peak posting Month:

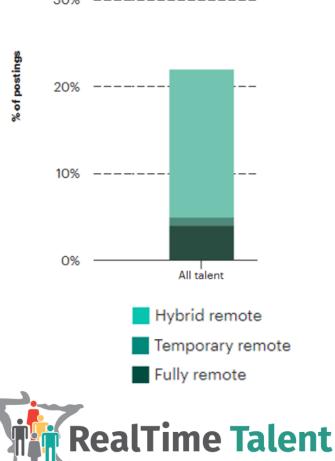
August 2024



# Job Posting Trends in Minnesota

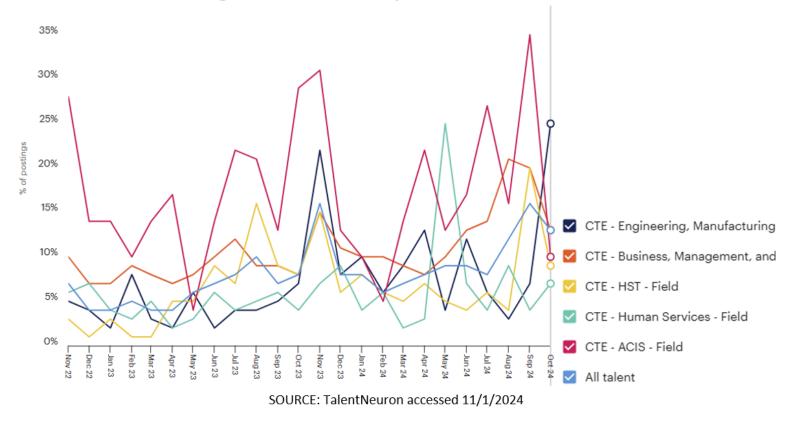
# Northeast



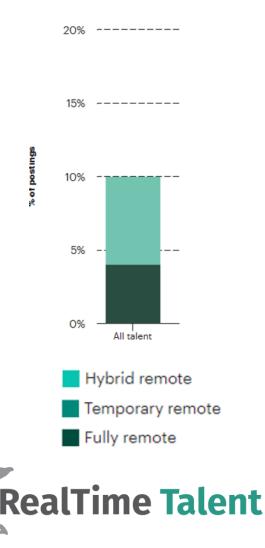


# Job Posting Trends in Minnesota

#### Total Remote Job Postings Advertised Monthly in Northwest Minnesota, October 2023-2024



# Northwest



# Talent Shortage Occupation Gaps

# Annual Average Talent Shortage Forecast Northwest Northeast

Supply Deficit

Heavy and Tractor-Trailer Truck Drivers (\$57,400)

-14

General and Operations Managers (\$93,800)

Registered Nurses (\$88,300)

-12

Cooks, Restaurant (\$35,600)

-10

Software Developers (\$109,000)

-9

Medical and Health Services Managers (\$112,300)

-9

Carpenters (\$57,100)

-8

Maintenance and Repair Workers, General (\$50,600)

-8

Licensed Practical and Licensed Vocational Nurses (\$56,100)

-6

Nurse Practitioners (\$138,000)

-6

Supply Deficit

Cooks, Restaurant (\$36,200)

-15

General and Operations Managers (\$94,600)

-15

Medical and Health Services Managers (\$109,400)

-13

Registered Nurses (\$84,800)

-13

Maintenance and Repair Workers, General (\$53,500)

-12

Software Developers (\$119,800)

-10

Heavy and Tractor-Trailer Truck Drivers (\$61,900)

-10

Nurse Practitioners (\$151,600)

-9

Licensed Practical and Licensed Vocational Nurses (\$55,900)

-7

Carpenters (\$61,300)

-7

# Northeast Northwest

### **Highlights**

- Reductions in shortages in Northwest for most occupations
- Similar volumes of shortages in Northeast



# Zero Unemployment

## Northwest

# Occupations with No Unemployed Workforce and Employing over 75 Workers Northeast Northwest

- 1. Architectural and Engineering Managers
  - Excavating and Loading Machine and Dragline Operators, Surface Mining
- 3. Power Plant Operators
- 4. Occupational Health and Safety Specialists
- 5. Massage Therapists
- 6. Railroad Conductors and Yardmasters
- 7. Construction and Building Inspectors
- 8. Veterinarians
- 9. Electrical and Electronic Engineering Technologists and Technicians
- 10. Dietitians and Nutritionists
- 11. Psychologists, All Other
- 12. Legislators
- 13. Interior Designers
- 14. School Psychologists

- 1. Architectural and Engineering Managers
- 2. Occupational Health and Safety Specialists
- 3. School Psychologists
- 4. Massage Therapists
- 5. Construction and Building Inspectors
- 6. Family Medicine Physicians
- 7. Electrical and Electronic Engineering Technologists and Technicians
- 8. Locomotive Engineers
- 9. Veterinarians
- 10. General Internal Medicine Physicians
- 11. Dietitians and Nutritionists
- 12. Excavating and Loading Machine and Dragline Operators, Surface Mining



# Career Field Summary

## Minnesota

#### **Health Science Technology**

- Highest employment concentration
- Second highest median wages

#### **Human Services**

- Highest growth in the past five years
- Lowest median wages

#### **Business, Management, and Administration**

- Largest total volume of employment
- Highest unemployment rate

#### **Arts, Communications, and Information Systems**

- Smallest employment volume
- Second-highest unemployment rate

#### **Engineering, Manufacturing and Technology**

- Second highest employment volume
- Highest unemployment rate

#### **Agriculture, Food, and Natural Resources**

- Second smallest share of employment
- Second lowest entry-level wages



# Career Fields: Historical Trends

## Northwest

#### CTE Field Employment and Wages in Northwest Minnesota, 2024Q1

	Current 2024Q1 Estimates					5-Year History			
CTE Field		Avg Entry- Level	Median			Unempl	Online	Empl	
(occupation overlap exists, will not sum)	Empl	Wages	Wages	LQ	Unempl	Rate	Job Ads <sup>3</sup>	Change	Ann %
Health Science Technology	17,002	\$39,400	\$65,200	1.03	365	1.8%	4,660	-496	-0.6%
Human Services	30,072	\$42,700	\$55,400	1.07	810	2.4%	2,040	421	0.3%
Arts, Communications, and Information Systems	4,830	\$50,800	\$69,300	0.59	141	2.3%	260	-27	-0.1%
Business, Management, and Administration	70,220	\$37,300	\$50,300	0.89	3,116	3.5%	4,432	70	0.0%
Engineering, Manufacturing, and Technology	48,009	\$42,600	\$54,200	1.10	2,327	3.7%	2,383	1,158	0.5%
Agriculture, Food, and Natural Resources*	15,538	\$36,600	\$54,300	1.67	528	2.9%	549	-104	-0.1%
Total - All Occupations	178,838			1.00	7,002	3.2%	13,952	469	0.1%

Data as of 2024Q1 unless noted otherwise

Note: Figures may not sum due to rounding and overlap in occupations between career fields. All clusters are distinct occupations except for Agriculture, Food, and Natural Resources, which overlaps with other clusters. Employment by place of work.

- 1. Data based on a four-quarter moving average unless noted otherwise.
- 2. Wage data represent the average for all Covered Employment
- 3. Data represent found online ads active 10/1/2024-11/1/2024 in the selected region. Due to alternative county-assignment algorithms, ad counts in this analytic may not match that shown in RTI (nor in the popup window ad list). Ad counts for ZCTA-based regions are estimates.

# Career Fields: Historical Trends

## Northeast

#### CTE Field Employment and Wages in Northeast Minnesota, 2024Q1

	Current 2024Q1 Estimates					5-Year History			
CTE Field		Avg Entry- Level	Median			Unempl	Online	Empl	,
(occupation overlap exists, will not sum)	Empl	Wages	Wages	LQ	Unempl	Rate	Job Ads <sup>3</sup>	Change	Ann %
Health Science Technology	22,971	\$40,300	\$67,900	1.27	429	1.9%	5,333	-1,409	-1.2%
Human Services	34,643	\$42,300	\$55,100	1.13	950	2.7%	2,165	-314	-0.2%
Arts, Communications, and Information Systems	5,419	\$54,300	\$76,200	0.61	159	2.6%	385	-384	-1.4%
Business, Management, and Administration	84,011	\$36,600	\$48,700	0.97	3,683	4.1%	5,665	-2,067	-0.5%
Engineering, Manufacturing, and Technology	45,047	\$46,300	\$62,000	0.95	2,067	4.2%	2,362	-268	-0.1%
Agriculture, Food, and Natural Resources*	9,435	\$43,400	\$59,600	0.93	341	3.4%	578	10	0.0%
Total - All Occupations	195,125			1.00	7,377	3.6%	16,074	-4,658	-0.5%

Data as of 2024Q1 unless noted otherwise

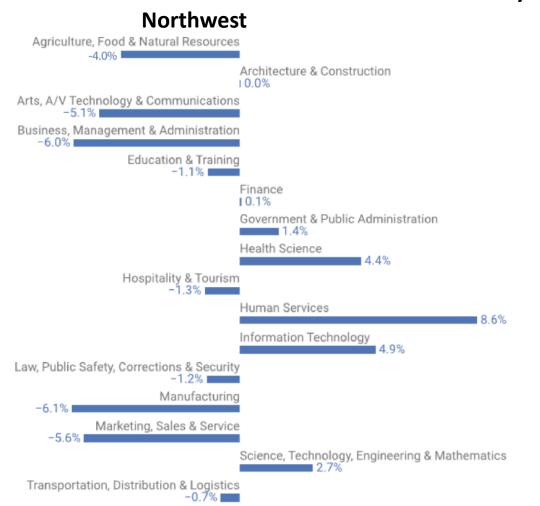
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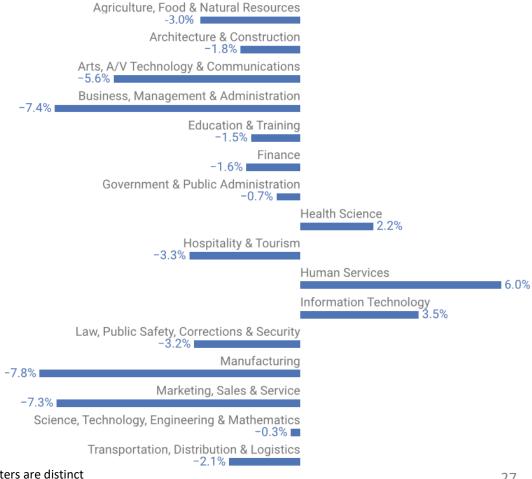
# Career Cluster Detail

# Northeast Northwest

#### Baseline 10-Year Forecasts by Career Cluster, 2024Q1

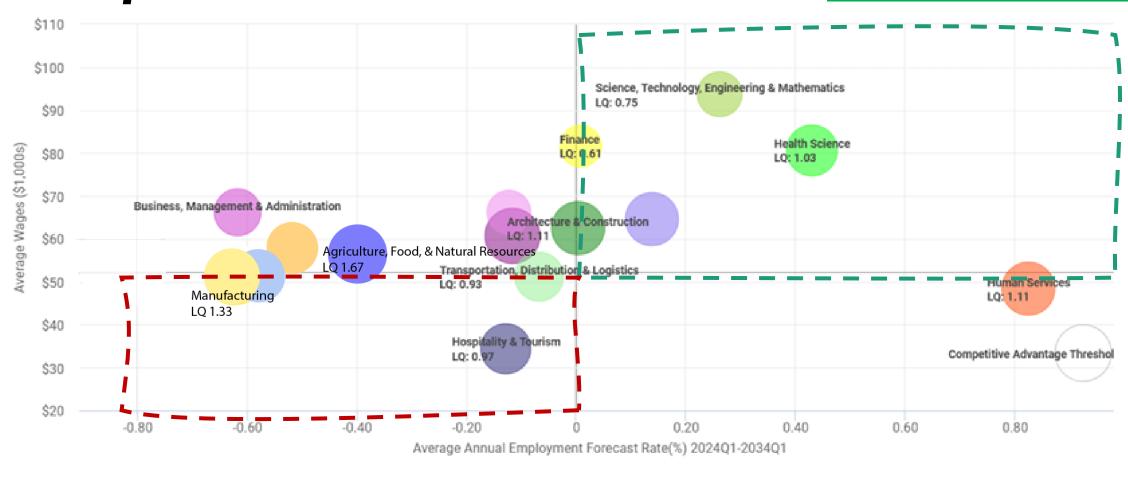


#### **Northeast**



# Career Clusters Workforce Forecast

## Northwest



Human Services
 Manufacturing
 Transportation, Distribution & Logistics
 Chmura JobsEQ, 2024Q1 Dataset.

Agriculture, Food & Natural Resources

Government & Public Administration

Business, Management & Administration

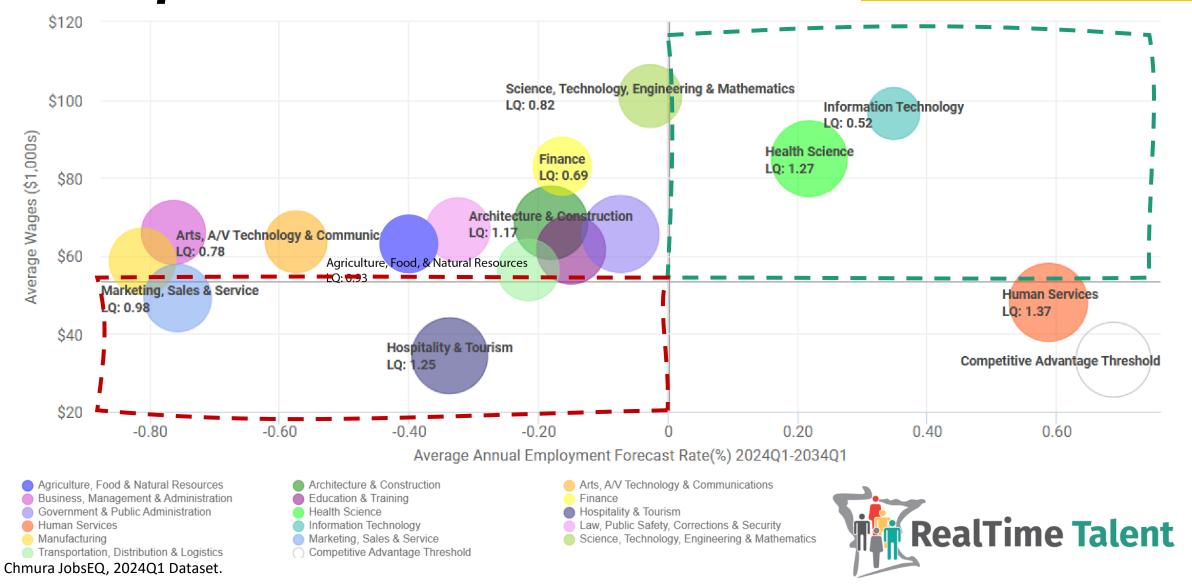
- Architecture & Construction
- Education & Training
- Health Science
- Information Technology
- Marketing, Sales & Service
- Competitive Advantage Threshold

- Arts, A/V Technology & Communications
- Finance
- Hospitality & Tourism
- Law, Public Safety, Corrections & Security
- Science, Technology, Engineering & Mathematics



# Career Clusters Workforce Forecast

## Northeast



# Career Field Analysis

#### **Target Occupations**

High wage (above regional median)

High skill (require some credential)

High demand (2/4 indicators: under 3% unempl, higher than average 5-year growth, total 5-year demand >50% of current empl, high job posting volume)

\*often also high occupation gap and award gap

#### **Gateway Occupations**

Mid wage (\$45,000 – regional median)

Low-middle skills (HS diploma, some OJT)

Sufficient demand (3-5% unemployment and/or high volumes of current opportunities)

#### **Origin Occupations**

Low wage (<\$45,000/year)
Low skill (no credential)

Varied demand (may have over 5% unemployment, low growth, low replacement demand, and/or low job postings)



# Health Science Technology Summary Statistics

# Northeast Northwest

### **Northeast**

- 2024Q1 Employment: 22,971 (12% of NE employment)
- **Median Wage:** \$67,900
- Location Quotient: 1.27
- **2024Q1 Unemployment:** 429 (1.9% rate)
- **30-Day Job Ads:** 5,333\*
- 5-Year Ann Avg Employment Change: -1.2%
- Forecast 5-Year Ann Employment Change: 0.2%
- Total 5-Year Demand: 9,252

## **Northwest**

- 2024Q1 Employment: 17,002 (10% of NW employment)
- **Median Wage:** \$65,200
- Location Quotient: 1.03
- **2024Q1 Unemployment:** 365 (1.8% rate)
- **30-Day Job Ads:** 4,660\*
- 5-Year Ann Avg Employment Change: -0.6%
- Forecast 5-Year Ann Employment Change: 0.4%
- **Total 5-Year Demand**: 7,375



# Health Science Technology Top Occupation & Award Gaps

Northeast Northwest

### **Northeast**

## Northwest

## **Top Occupation Gaps**

- Medical & Health Services Managers
- Registered Nurses
- Nurse Practitioners
- Nursing Assistants
- Licensed Practical & Licensed Vocational Nurses

### **Top Award Gaps**

- Medical Assistants
- Medical Secretaries & Administrative Assistants
- Pharmacists
- Healthcare Support Workers, All Other
- Licensed Practical & Licensed Vocational Nurses

### **Top Occupation Gaps**

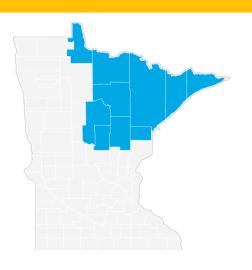
- Registered Nurses
- Medical & Health Services Managers
- Licensed Practical & Licensed Vocational Nurses
- Nurse Practitioners
- Nursing Assistants

## **Top Award Gaps**

- Medical Assistants
- Nursing Assistants
- Nurse Practitioners
- Pharmacists
- Occupational Therapists

# Health Science Technology

## Northeast



### **Target Occupations (All HW, HD, HS, OG)**

**Registered Nurses** 

Licensed Practical & Licensed Vocational Nurses (AG)

Medical & Health Services Managers

Pharmacists (AG)

**Dental Assistants** 

#### **Gateway Occupations**

Medical Secretaries (HD, OG, AG)

Medical Assistants (HS, HD, OG, AG)

Psychiatric Technicians (HS, HD, OG, AG)

Medical Equipment Preparers (HD, AG)

Medical Transcriptionists (HS)

## **Origin Occupations**

Nursing Assistants (HS, HD, OG)

Home Health Aides (HD)

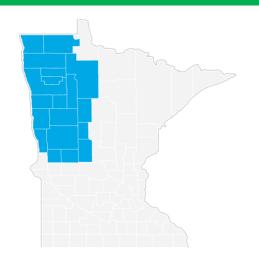
Pharmacy Technicians (OG, AG)

Healthcare Support Workers (HD, AG)

Veterinary Technologists & Technicians (HS, HD, OG, AG)

# Health Science Technology

## Northwest



## Target Occupations (All HW, HD, HS, OG)

Registered Nurses

Licensed Practical & Licensed Vocational Nurses

Medical & Health Services Managers

**Dental Assistants** 

**Dental Hygienists** 

#### **Gateway Occupations**

Pharmacy Technicians (HD, OG)

Medical Assistants (HS, HD, OG, AG)

Ophthalmic Medical Technicians (HS, HD, OG)

Psychiatric Aides (HD)

Medical Transcriptionists (HS)

## **Origin Occupations**

Nursing Assistants (HS, HD, OG, AG)

Home Health Aides (HD)

Medical Secretaries & Administrative Assistants (HD, OG, AG)

Healthcare Support Workers (HD)

Veterinary Technologists & Technicians (HS, HD, OG, AG)

# Health Science Technology

# Northeast Northwest



Nurses (HW, HS, HD, OG, AG)

Target

**Registered Nurses** (HW, HS, HD, OG)



# Summary Statistics

### **Northeast**

- 2024Q1 Employment: 34,643 (18% of NE employment)
- **Median Wage:** \$55,100
- Location Quotient: 1.13
- **2024Q1 Unemployment:** 950 (2.7% rate)
- 30-Day Job Ads: 2,165\*
- 5-Year Ann Avg Employment Change: -0.2%
- Forecast 5-Year Ann Employment Change: 0.1%
- **Total 5-Year Demand**: 17,973

# Northeast

# Northwest

## **Northwest**

- 2024Q1 Employment: 30,072 (17% of NW employment)
- **Median Wage:** \$55,400
- Location Quotient: 1.07
- **2024Q1 Unemployment:** 810 (2.4% rate)
- **30-Day Job Ads:** 2,040\*
- 5-Year Ann Avg Employment Change: 0.3%
- Forecast 5-Year Ann Employment Change: 0.2%
- **Total 5-Year Demand**: 15,423



# Top Occupation & Award Gaps

## Northeast

## Northwest

## **Northeast**

## **Top Occupation Gaps**

- Substance, Behavioral, Mental Health Counselors
- Social & Community Service Managers
- Police & Sheriff's Patrol Officers
- Firefighters
- Court, Municipal, & License Clerks

## **Top Award Gaps**

- Teaching Assistants
- Hairdressers, Hairstylists, & Cosmetologists
- Childcare Workers
- Coaches & Scouts
- Social & Human Service Assistants

## **Northwest**

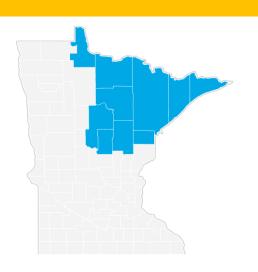
## **Top Occupation Gaps**

- Substance, Behavioral, Mental Health Counselors
- Police & Sheriff's Patrol Officers
- Lawyers
- Child, Family, & School Social Workers
- Social & Community Service Managers

## **Top Award Gaps**

- Childcare Workers
- Hairdressers, Hairstylists, & Cosmetologists
- Clergy
- Lawyers
- Social & Human Services Assistants

## Northeast



### Target Occupations (All HW, HS, HD)

**Elementary School Teachers** 

Secondary School Teachers (OG)

Substance Abuse, Behavioral Disorder, & Mental Health Counselors (OG)

Child, Family, & School Social Workers (OG)

Middle School Teachers

#### **Gateway Occupations**

Residential Advisors (HD, AG)

Supervisors of Entertainment & Recreation Workers (HD, OG)

Community Health Workers (HD)

Skincare Specialists (HS, HD, AG)

**Transportation Security Screeners** 

### **Origin Occupations**

Personal Care Aides (HD, AG)

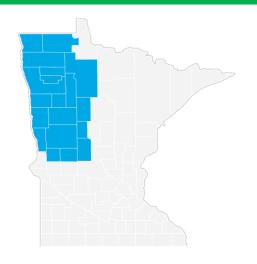
Teaching Assistants (HS, HD, AG)

Childcare Workers (AG)

Social & Human Service Assistants (HD, AG)

Preschool Teachers (HS, HD)

## Northwest



#### **Target Occupations (All HW, HS, HD)**

Child, Family, & School Social Workers (OG)

Substance Abuse, Behavioral Disorder, & Mental Health

Counselors (OG)

Lawyers (OG, AG)

Social & Community Service Manager (OG)

Educational, Guidance, & Career Counselors and

**Advisors** 

#### **Gateway Occupations**

Social and Human Services Assistants (HD, AG)

Substitute Teachers, Short-Term (HS, HD, AG)

Self-Enrichment Teachers (HD, AG)

Residential Advisors (HD, AG)

Rehabilitation Counselors (HS)

### **Origin Occupations (All AG)**

Personal Care Aides (HD)

Teaching Assistants, Except Postsecondary (HS)

**Childcare Workers** 

Preschool Teachers, Except Special Education (HS, HD)

Firefighters (HS, HS, OG, AG)

# Northeast Northwest



Origin Target

Teaching Assistants (HS, HD, AG)

Substitute Teachers, Short-Term (HS, HD, AG)

Self-Enrichment Teachers (HD, AG)

Elementary School Teachers (HW, HS, HD)

Secondary School Teachers (HW, HS, HD, OG)

Origin

Northwest Region Featured Pathway Gateway

Target

Teaching Assistants (HS, AG)

Social & Human Services Assistants (HD,AG) Substance Abuse, Behavioral Disorder, & Mental Health Counselors (HW, HS, HD, OG) Child, Family, & School Social Workers (HW, HS, HD, OG)

### **Summary Statistics**

#### **Northeast**

- **2024Q1 Employment:** 5,419 (3% of NE employment)
- **Median Wage:** \$76,200
- Location Quotient: 0.61
- **2024Q1 Unemployment:** 159 (2.6% rate)
- **30-Day Job Ads:** 385\*
- 5-Year Ann Avg Employment Change: -1.4%
- Forecast 5-Year Ann Employment Change: -0.1%
- Total 5-Year Demand: 2,010

### Northeast Northwest

#### **Northwest**

- 2024Q1 Employment: 4,830 (3% of NW employment)
- **Median Wage:** \$69,300
- Location Quotient: 0.59
- **2024Q1 Unemployment:** 141 (2.3% rate)
- **30-Day Job Ads:** 260\*
- 5-Year Ann Avg Employment Change: -0.1%
- Forecast 5-Year Ann Employment Change: 0.0%
- Total 5-Year Demand: 1,867



**Northeast** 

## Top Occupation & Award Gaps

#### **Northwest**

Northeast

Northwest

#### **Top Occupation Gaps**

- Software Developers
- Computer Systems Analysts
- Art Directors
- Telecommunications Line Installers & Repairers
- Telecommunications Equipment Installers

#### **Top Award Gaps**

- Photographers
- Art Directors
- Musicians & Singers
- Computer User Support Specialists
- Dancers

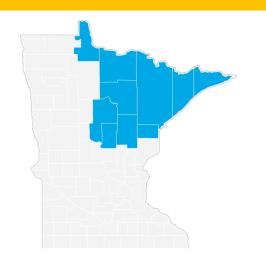
#### **Top Occupation Gaps**

- Software Developers
- Musicians & Singers
- Computer User Support Specialists
- Photographers
- Computer Network Support Specialists

#### **Top Award Gaps**

- Computer User Support Specialists
- Musicians & Singers
- Telecommunications Equipment Installers
- Prepress Technicians & Workers
- Dancers

#### Northeast



#### **Target Occupations (All HW, HS, HD, OG)**

Software Developers

**Computer Systems Analysts** 

**Computer Network Support Specialists** 

Computer Occupations, All Other

Telecommunications Equipment Installers

#### **Gateway Occupations**

**Printing Press Operators** 

Producers & Directors (HS)

News Analysts, Reporters, & Journalists (HS)

Print Binding & Finishing Workers

Camera Operators, Television, Video, & Film (HS)

#### **Origin Occupations**

Photographers (HD, AG)

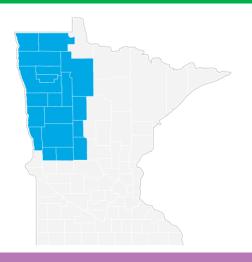
Audio & Video Technicians (HS, AG)

Floral Designers

Broadcast Announcers & Radio Disc Jockeys (HS)

Prepress Technicians & Workers (HS)

#### Northwest



#### **Target Occupations (All HW, HS, HD)**

Software Developers (OG)

Computer Systems Analysts (OG)

Telecommunications Equipment Installers & Repairers (OG, AG)

Computer Occupations, All Other (OG)

Web & Digital Interface Designers

#### **Gateway Occupations (All HS)**

**Editors** 

**Broadcast Technicians** 

**Proofreaders & Copy Markers** 

#### **Origin Occupations**

Printing Press Operators (AG)

Photographers (HD, OG)

Floral Designers

Prepress Technicians & Workers (HS, AG)

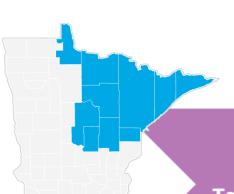
Print Binding & Finishing Workers

Origin

### Northeast Northwest

**Northeast Region Featured Pathway** 

Target



**Audio & Visual** Technicans (HS, AG) **Telecommunications Equipment Installers** (HW, HS, HD, OG)

**Northwest Region Featured Pathway** 

Computer Network **Support Specialists** (HW, HS, HD, OG)



Gateway

Other Aligned Occupation

Target

**Broadcast Technicians** (HS)

**Telecommunications** Line Installers & Repairers (HW, HD, OG)

Telecommunications **Equipment Installers** & Repairers (HW, HS, HD, OG, AG)

# Business, Management, & Administration Summary Statistics

#### **Northeast**

- 2024Q1 Employment: 84,011 (43% of NE employment)
- **Median Wage:** \$48,700
- Location Quotient: 0.97
- **2024Q1 Unemployment:** 3,683 (4.1% rate)
- **30-Day Job Ads:** 5,665\*
- 5-Year Ann Avg Employment Change: -0.5%
- Forecast 5-Year Ann Employment Change: -0.6%
- **Total 5-Year Demand**: 52,278

### Northeast Northwest

#### **Northwest**

- 2024Q1 Employment: 70,220 (39% of NW employment)
- **Median Wage:** \$50,300
- Location Quotient: 0.89
- **2024Q1 Unemployment:** 3,116 (3.5% rate)
- **30-Day Job Ads:** 4,432\*
- 5-Year Ann Avg Employment Change: 0.0%
- Forecast 5-Year Ann Employment Change: -0.4%
- Total 5-Year Demand: 43,484



# Business, Management, & Administration Top Occupation & Award Gaps

Northeast Northwest

#### **Northeast**

#### **Top Occupation Gaps**

- Restaurant Cooks
- General & Operations Managers
- Financial Managers
- Market Research Analysts & Specialists
- Managers, All Other

#### **Top Award Gaps**

- General & Operations Managers
- Business Operations Specialists
- Management Analysts
- Project Management Specialists
- Human Resources Specialists

#### **Northwest**

#### **Top Occupation Gaps**

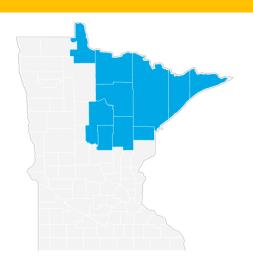
- General & Operations Managers
- Restaurant Cooks
- Financial Managers
- Managers, All Other
- Market Research Analysts & Specialists

#### **Top Award Gaps**

- Supervisors of Food Prep & Serving Workers
- Market Research Analysts & Specialists
- Restaurant Cooks
- Food Service Managers
- Recreation Workers

## Business, Management, & Administration

#### Northeast



#### **Target Occupations (All HW, HS, HD, OG)**

General & Operations Managers (AG)

**Accountants & Auditors** 

Managers, All Other

**Business Operations Specialists (AG)** 

Management Analysts (AG)

#### **Gateway Occupations**

Secretaries & Administrative Assistants (AG)

Supervisors of Retail Workers (HD)

Bookkeeping, Accounting, & Auditing Clerks (HS, AG)

Billing & Posting Clerks

Supervisors of Housekeeping & Janitorial Workers (HD, OG)

#### **Origin Occupations**

Retail Salespersons (HD)

Cashiers

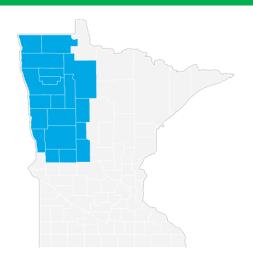
Fast Food & Counter Workers (HD)

Waiters & Waitresses

Office Clerks, General

## Business, Management, & Administration

#### Northwest



#### **Target Occupations (All HW, HS, HD)**

Financial Managers (OG)

Management Analysts (OG)

Securities, Commodities, & Financial Services Sales

Agents (OG, AG)

**Public Relations Specialists** 

Computer & Information Systems Managers (OG)

#### **Gateway Occupations**

**Secretaries & Administrative Assistants** 

First-Line Supervisors of Retail Sales Workers (HD)

Bookkeeping, Accounting, & Auditing Clerks (HS)

Shipping, Receiving, & Inventory Clerks (AG)

Office & Administrative Support Workers, All Other

#### **Origin Occupations**

**Cashiers** 

Retail Salespersons (HD)

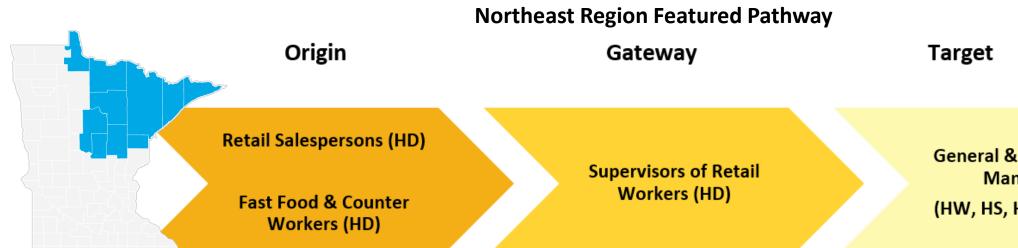
Fast Food & Counter Workers (HD)

Office Clerks, General (HD, AG)

Stockers & Order Fillers (HD)

## Business, Management, & Administration

### Northeast Northwest



General & Operations Managers (HW, HS, HD, OG, AG)

Origin Gateway Target

**Northwest Region Featured Pathway** 

Office Clerks, General (HD, AG)

Bookkeeping,
Accounting, & Auditing
Clerks (HS)

Financial Managers (HW, HS, HD, OG)

## Engineering, Manufacturing, & Technology

## Summary Statistics Northeast

### Northeast Northwest

#### **Northwest**

- **2024Q1 Employment:** 45,047 (23% of NE employment)
- Median Wage: \$62,000
- Location Quotient: 0.95
- **2024Q1 Unemployment:** 2,067 (4.2% rate)
- **30-Day Job Ads:** 2,362\*
- 5-Year Ann Avg Employment Change: -0.1%
- Forecast 5-Year Ann Employment Change: -0.4%
- Total 5-Year Demand: 20,418

- **2024Q1 Employment:** 48,009 (27% of NW employment)
- **Median Wage:** \$54,200
- Location Quotient: 1.10
- **2024Q1 Unemployment:** 2,327 (3.7% rate)
- **30-Day Job Ads:** 2,383\*
- 5-Year Ann Avg Employment Change: 0.5%
- Forecast 5-Year Ann Employment Change: -0.3%
- **Total 5-Year Demand**: 23,090



### Engineering, Manufacturing, & Technology Тор Occupation & Award Gaps

Northeast Northwest

#### **Northeast**

#### Northwest

#### **Top Occupation Gaps**

- Maintenance & Repair Workers
- Heavy & Tractor Trailer Truck Drivers
- Supervisors of Construction Trades Workers
- Carpenters
- Construction Managers

#### **Top Award Gaps**

- Automotive Service Technicians & Mechanics
- Industrial Engineers
- Heavy & Tractor Trailer Truck Drivers
- Construction Managers
- Architectural & Civil Drafters

#### **Top Occupation Gaps**

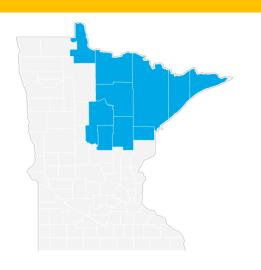
- Heavy & Tractor Trailer Truck Drivers
- Carpenters
- Maintenance & Repair Workers
- Industrial Machinery Mechanics
- Supervisors of Construction Trades Workers

#### **Top Award Gaps**

- Welders, Cutters, Solderers, & Brazers
- Industrial Engineers
- Mechanical Engineers
- Civil Engineers
- Electrical Engineers

## Engineering, Manufacturing, & Tech

#### Northeast



#### **Target Occupations (All HW, HS, HD, OG)**

Heavy & Tractor-Trailer Truck Drivers (AG)

Construction Managers (AG)

Industrial Engineers (AG)

**HVAC Mechanics (AG)** 

Civil Engineers

#### **Gateway Occupations**

Light Truck Drivers (HD, AG)

School Bus Drivers (HD, AG)

**Industrial Truck & Tractor Operators** 

**Computer Numerically Controlled Tool Operators** 

Automotive Body & Related Repairers (OG)

#### **Origin Occupations**

Laborers & Freight, Stock Movers

Landscaping & Groundskeeping Workers (HD)

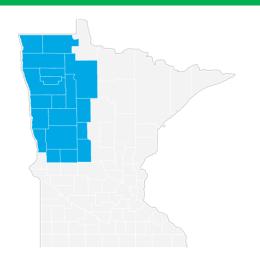
Team Assemblers

Packers & Packagers, Hand

Shuttle Drivers & Chauffeurs (HD, AG)

## Engineering, Manufacturing, & Tech

#### Northwest



#### Target Occupations (All HW, HS, HD, OG)

Heavy & Tractor-Trailer Truck Drivers

Industrial Engineers (AG)

**Construction Managers** 

**HVAC Mechanics & Installers** 

Mechanical Engineers (AG)

#### **Gateway Occupations**

Light Truck Drivers (HD)

Automotive Service Technicians & Mechanics (HS, OG)

School Bus Drivers (HD)

**Industrial Truck & Tractor Operators** 

Painters, Construction & Maintenance (OG)

#### **Origin Occupations**

Laborers & Freight, Stock, & Material Movers, Hand

Team Assemblers

Landscaping & Groundskeeping Workers (HD, AG)

Food Batchmakers (HD, OG, AG)

Packaging & Filling Machine Operators & Tenders (HD, OG)

### Engineering, Manufacturing, & Technology

Northeast Northwest

Origin

**Northeast Region Featured Pathway** Gateway

Target

Laborers & Freight, **Stock Movers Team Assemblers** Packers & Packagers

**Construction Laborers** 

**Construction Managers** (HW, HS, HD, OG, AG)

#### **Northwest Region Featured Pathway**

Origin Gateway Target Light Truck Drivers (HD) **Laborers & Freight, Stock Movers** School Bus Drivers (HD) **Team Assemblers** Industrial Truck & Tractor Operators

Heavy & Tractor-Trailer Truck Drivers (HW, HS, HD, OG)

#### Summary Statistics Northeast

- **2024Q1 Employment:** 9,435 (5% of NE employment)
- **Median Wage:** \$59,600
- Location Quotient: 0.93
- **2024Q1 Unemployment:** 341 (3.4% rate)
- **30-Day Job Ads:** 578\*
- 5-Year Ann Avg Employment Change: 0.0%
- Forecast 5-Year Ann Employment Change: -0.3%
- Total 5-Year Demand: 4,911

### Northeast Northwest

#### **Northwest**

- **2024Q1 Employment:** 15,538 (9% of NW employment)
- **Median Wage:** \$54,300
- Location Quotient: 1.67
- **2024Q1 Unemployment:** 528 (2.9% rate)
- **30-Day Job Ads:** 549\*
- 5-Year Ann Avg Employment Change: -0.1%
- Forecast 5-Year Ann Employment Change: -0.4%
- Total 5-Year Demand: 8,461



### Northeast Northwest

### Top Occupation & Award Gaps

#### **Northeast**

#### Northwest

#### **Top Occupation Gaps**

- Plumbers, Pipefitters, & Steamfitters
- HVAC Mechanics
- Veterinary Technologists & Technicians
- Telecommunications Equipment Installers
- Chefs & Head Cooks

#### **Top Award Gaps**

- Mining & Geological Engineers
- Veterinarians
- HVAC Mechanics
- Urban and Regional Planners
- Environmental Engineers

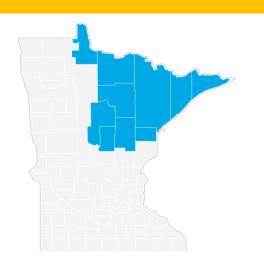
#### **Top Occupation Gaps**

- Plumbers, Pipefitters, & Steamfitters
- Veterinary Technologists & Technicians
- Farm Equipment Mechanics & Service Techs
- HVAC Mechanics
- Food Batchmakers

#### **Top Award Gaps**

- Farmers, Ranchers, & Agricultural Managers
- Urban & Regional Planners
- Veterinarians
- Veterinary Technologists & Technicians
- Telecommunications Equipment Installers

#### Northeast



#### **Target Occupations (All HW, HS, HD)**

HVAC Mechanics (OG, AG)

Telecommunications Equipment Installers (OG)

**Environmental Scientists & Specialists** 

Chemical Technicians (AG)

Surveyors (AG)

#### **Gateway Occupations**

**Logging Equipment Operators** 

**Butchers & Meat Cutters** 

Biological Technicians (HS, HD)

Outdoor Power Equipment Mechanics (HD)

Pesticide Handlers, Sprayers, & Applicators, Vegetation (HD)

#### **Origin Occupations**

Landscaping & Groundskeeping Workers (HD)

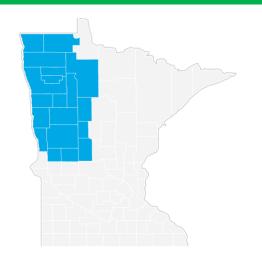
Animal Caretakers (HD)

Veterinary Technologists & Technicians (HS, HD, OG, AG)

Bakers (HD)

Farmworkers & Laborers, Crop, Nursery, & Greenhouse

#### Northwest



#### **Target Occupations (All HW, HS, HD)**

**HVAC Mechanics & Installers (OG)** 

Telecommunications Equipment Installers & Repairers (OG, AG)

**Environmental Scientists & Specialists** 

**Urban & Regional Planners (AG)** 

Biological Science Teachers, Postsecondary

#### **Gateway Occupations**

Agricultural Equipment Operators (HD, AG)

Food Cooking Machine Operators & Tenders (HD)

**Logging Equipment Operators** 

Pesticide Handlers, Sprayers, & Applicators, Vegetation

Outdoor Power Equipment & Other Small Engine Mechanics

#### **Origin Occupations**

Landscaping & Groundskeeping Workers (HD, AG)

Farmworkers & Laborers, Crop, Nursery, & Greenhouse

Food Batchmakers (HD, OG, AG)

Meat, Poultry, & Fish Cutters & Trimmers (HD)

Farmworkers, Farm, Ranch, & Aquacultural Animals

### Northeast Northwest

Origin

Northeast Region Featured Pathway

Lower-Wage Target Occupation

**Target** 

Forest & Conservation Workers

Forest &
Conservation
Technicians
(HS, HD, OG)

Environmental Scientists & Specialists (HW, HS, HD)

Origin

Northwest Region Featured Pathway

Gateway Occupation

Other Aligned Occupation

Farmworkers and Laborers, Crop, Nursery, & Greenhouse

Farmworkers Farm, Ranch, & Aquacultural Animals

Agricultural Equipment
Operators
(HD, AG)

Farm Equipment
Mechanics & Service
Technicians
(HW, HD, OG)

## Summary and Discussion

### Thank you!

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### **Appendix**



#### The National Career Clusters® Framework

The Career Clusters Framework serves as the foundation for designing consistent, high-quality Career Technical Education (CTE) and career pathway programs.

- Released in October 2024
- 5 Cluster Groupings
  - 14 Clusters (11 aligned to groupings, 3 cross-cutting)
    - 72 Sub-Clusters

