

# Central Minnesota Labor Market Trends

Pathways 2 Postsecondary Summit  
December 5<sup>th</sup>, 2014

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Labor Market Information Office

<http://mn.gov/deed/data/>

*Minnesota*

Department of Employment and Economic Development

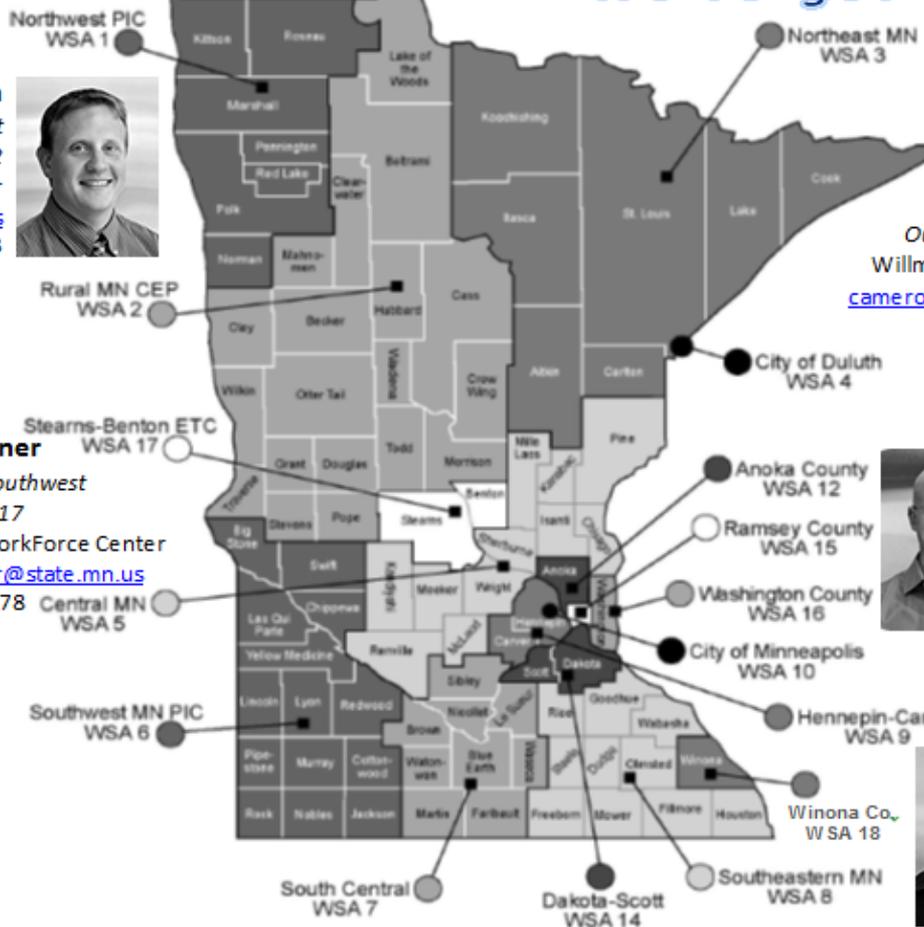


# Labor Market Information Office

- DEED's LMI Office supports state workforce and economic development systems by producing and disseminating data, key indicators, analysis, and trends on the economy, workforce, job market, and business community
- LMI Office's high quality information advises policy makers on current and future economic trends, helps employers make informed business decisions, and assists individuals in making strong career choices
  - DEED's Regional Analysts are the state's **experts** on the latest labor market intelligence, economic conditions, and workforce trends
  - Minnesota WorkForce Centers are a **great resource to provide** schools with more detailed insight on the local economy, and to assist with plans to better help students **map out career objectives**
  - ***We've got you covered!***

# DEED's Regional Analysts

*We've got you covered...*



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# Labor Market Information Office

<http://mn.gov/deed/data/>

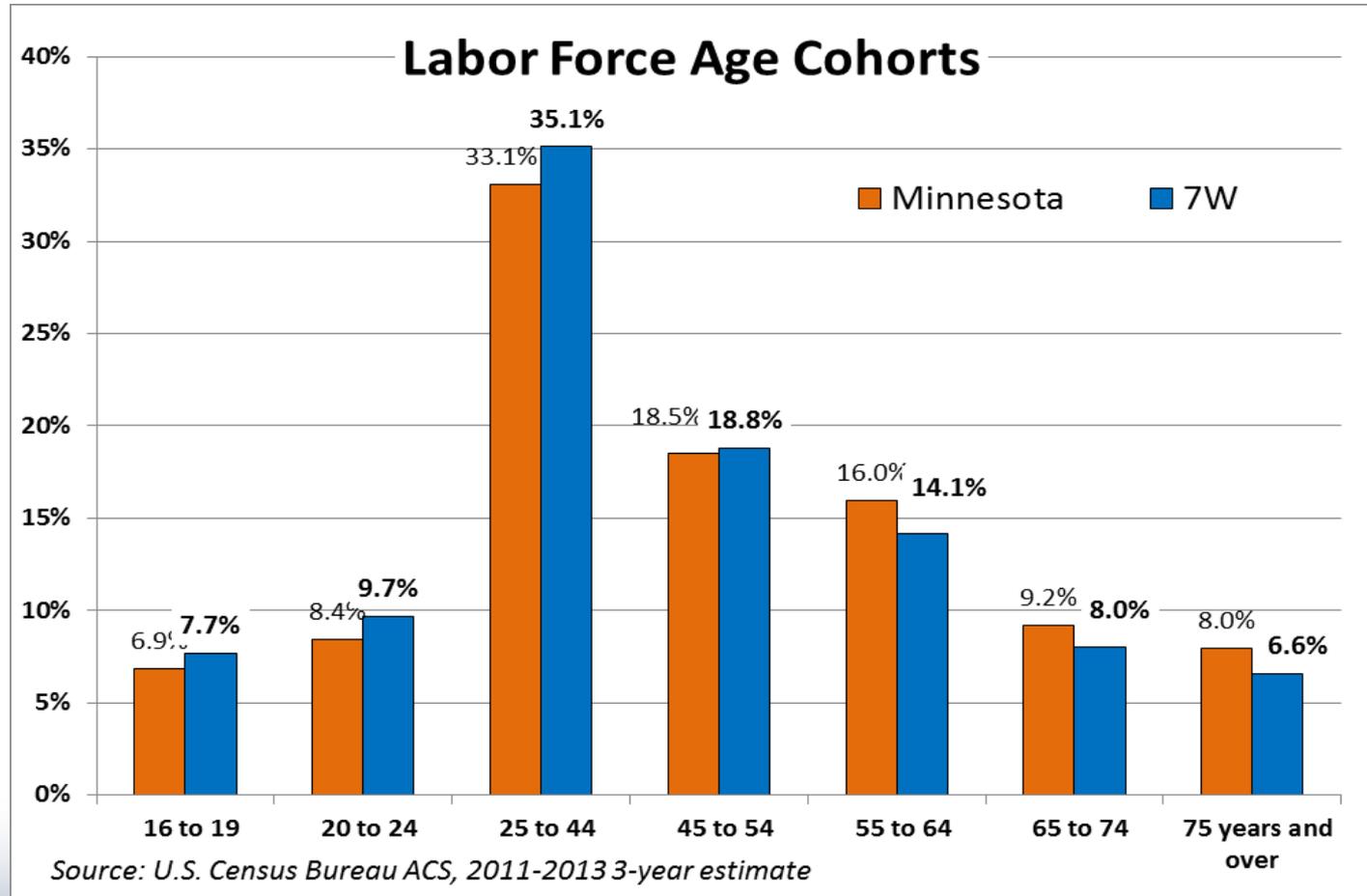
- Industry Employment Statistics & Trends
- Regional Wage & Salary Information
- Unemployment Rates
- Unemployment Insurance Claims
- Hiring Difficulties in Minnesota
- Skills Gap Surveys
- Quarterly Workforce Indicators (QWI)
- DEED's Regional Data Tool
- Match Jobs to Experience (JobSTAT)
- Economic Trends & Employment Review
- Occupations in Demand (OID)
- Employment Outlook Projections
- Graduate Employment Outcomes
- Cost Of Living Calculator
- Career Exploration Information
- Job Vacancy Survey data
- Affirmative Action Statistics
- Bureau of Labor Statistics (BLS) data
- U.S. Census data

# Employment Update

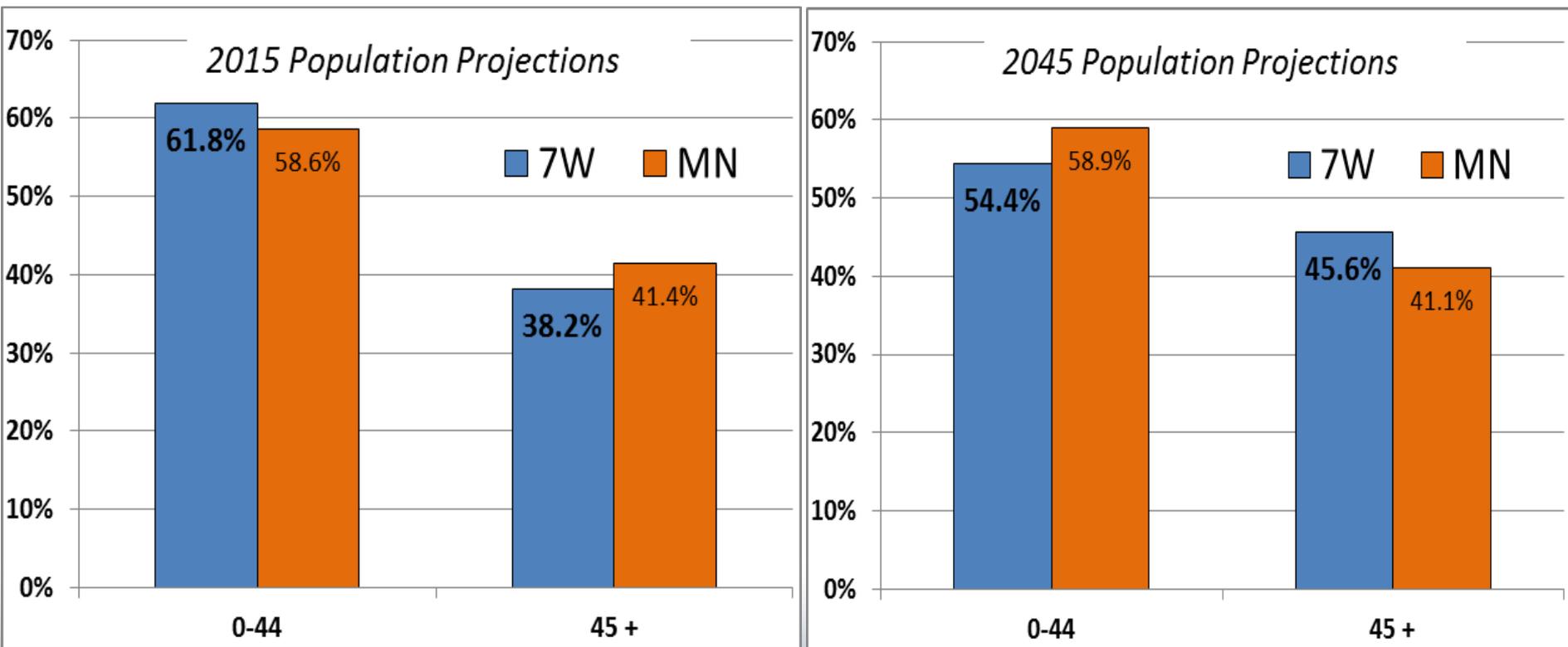
- **Employment is growing**
  - Minnesota gained another 9,500 jobs in October
  - Minnesota has 49,679 more jobs compared to last Oct. (+1.8%)
  - Minnesota has regained the 159,000 jobs lost during the Great Recession, plus 66,100 above our all-time peak!
  - St. Cloud MSA added 1,300 jobs in Oct., up 1.7% from previous Oct.
- **Other (mainly) positive signs:**
  - Hiring activity has surpassed pre-recession levels
  - Initial UI claims are lowest since Sept. 2000
  - Average work-weeks are near record highs (34.4 hours)
  - Labor force participation rates are recovering
  - Educational attainment rates are rising

# Region 7W Demographics

- Region 7W is younger than the state both in general population 16 and over, and in labor force.
- 21.9% of 7W population is 55+, 26.1% for MN

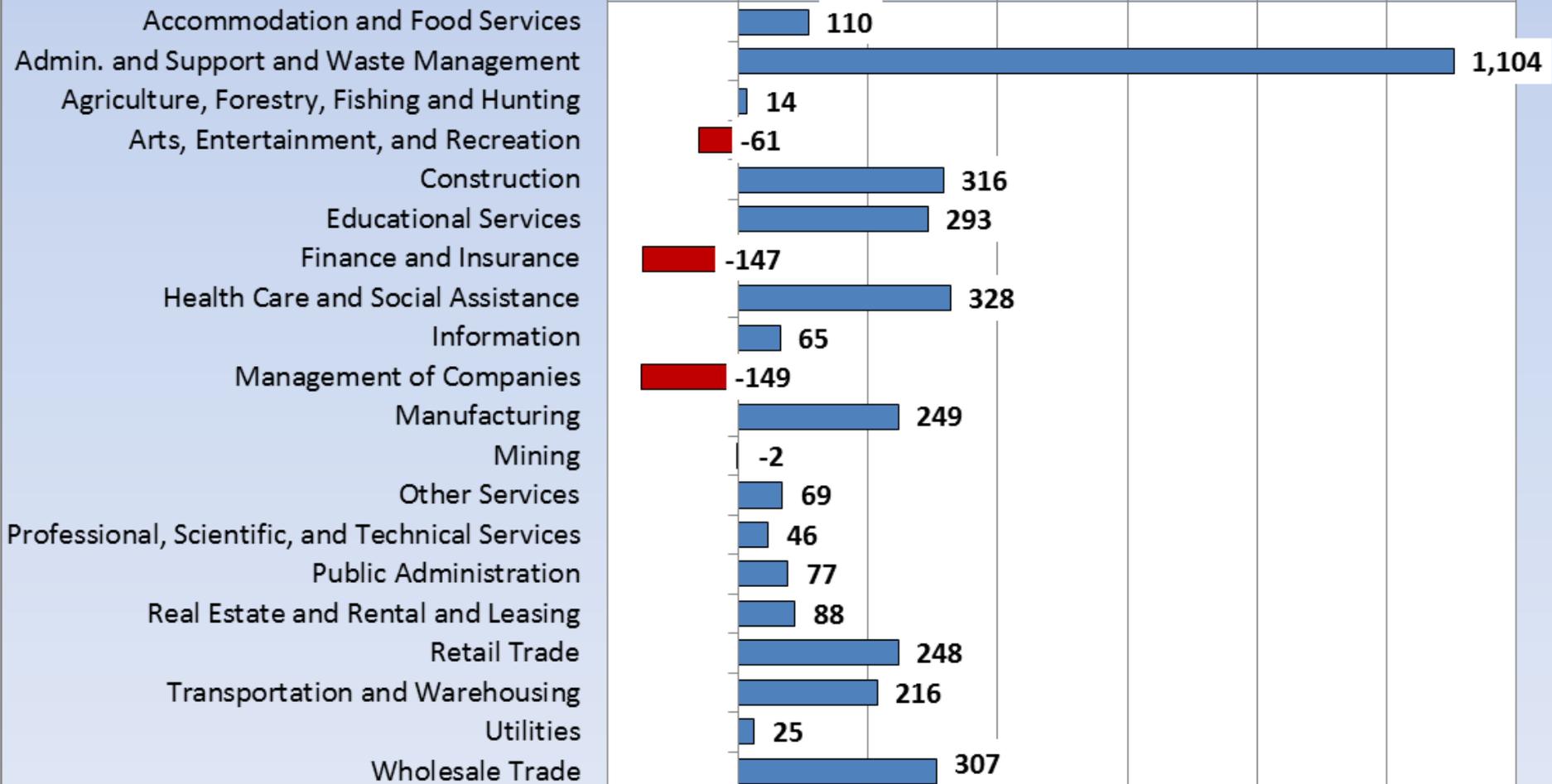


# Change in Central MN population



Source: MN State Demographers office

## 2012 - 2013 Industry Employment Change, EDR 7W

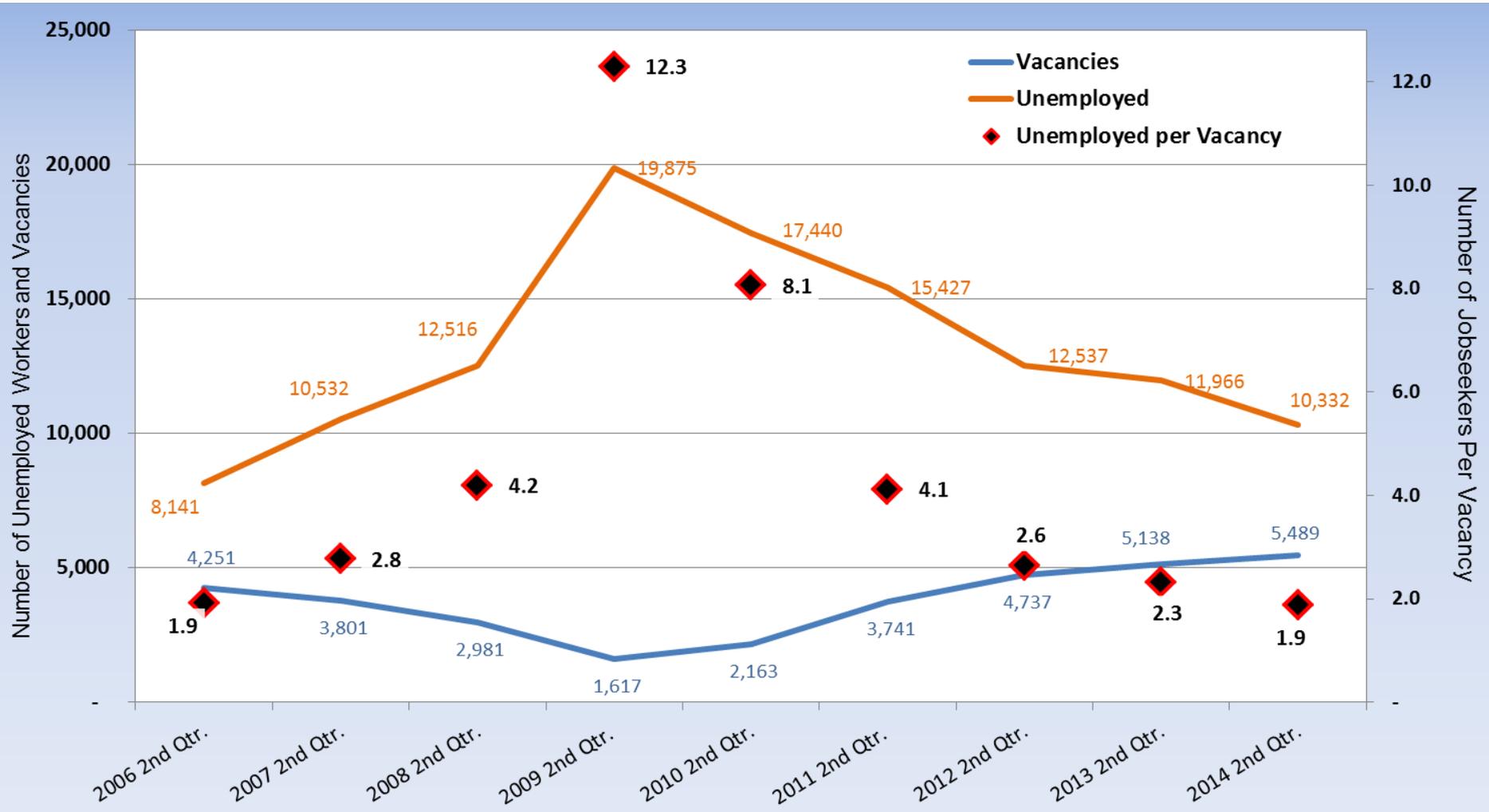


Source: DEED, QCEW program

-200 0 200 400 600 800 1,000 1,200

# Region 7W Unemployed Per Vacancy

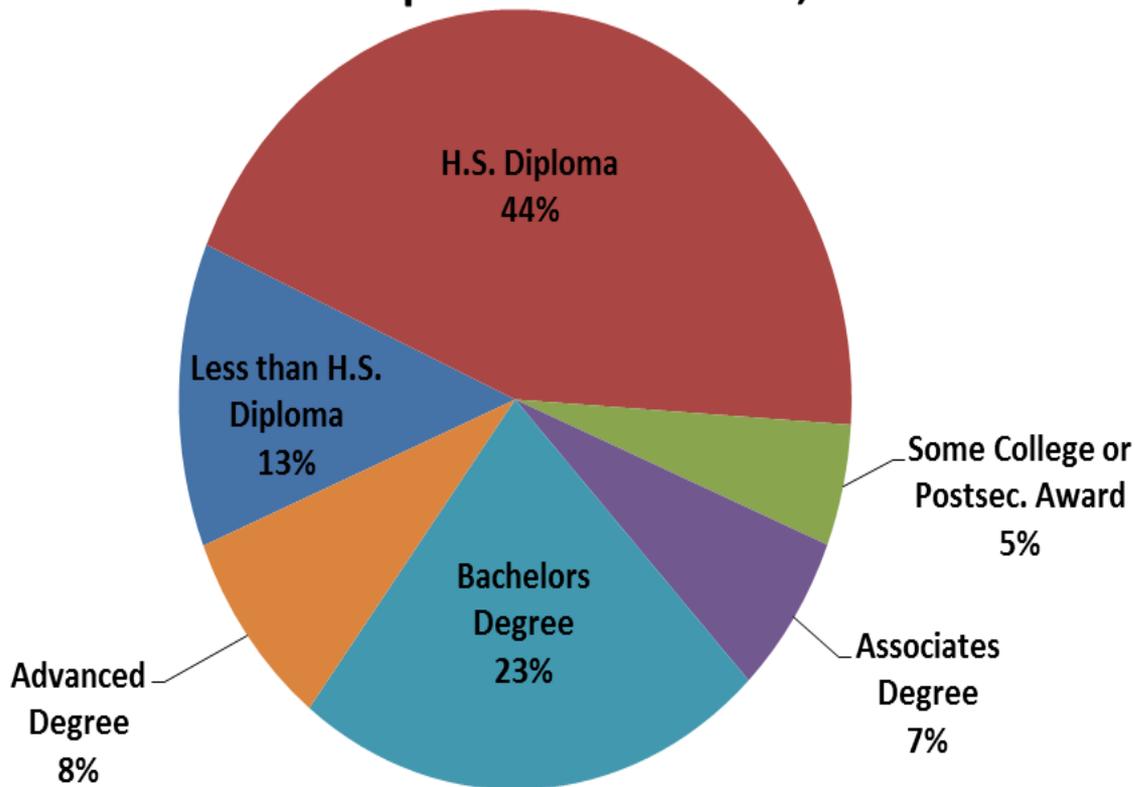
- 7W unemployment rate was 3.1% in October



# Central Region Occupations In Demand

## EDR 7W

Occupations In Demand, 7W



358 occupations in relatively high demand

- 45 require less than H.S. Diploma
- 159 require H.S. Diploma
- 18 require Postsecondary award (non-degree)
- 24 require Associates Degree
- 81 require Bachelors Degree
- 30 require Advanced Degree

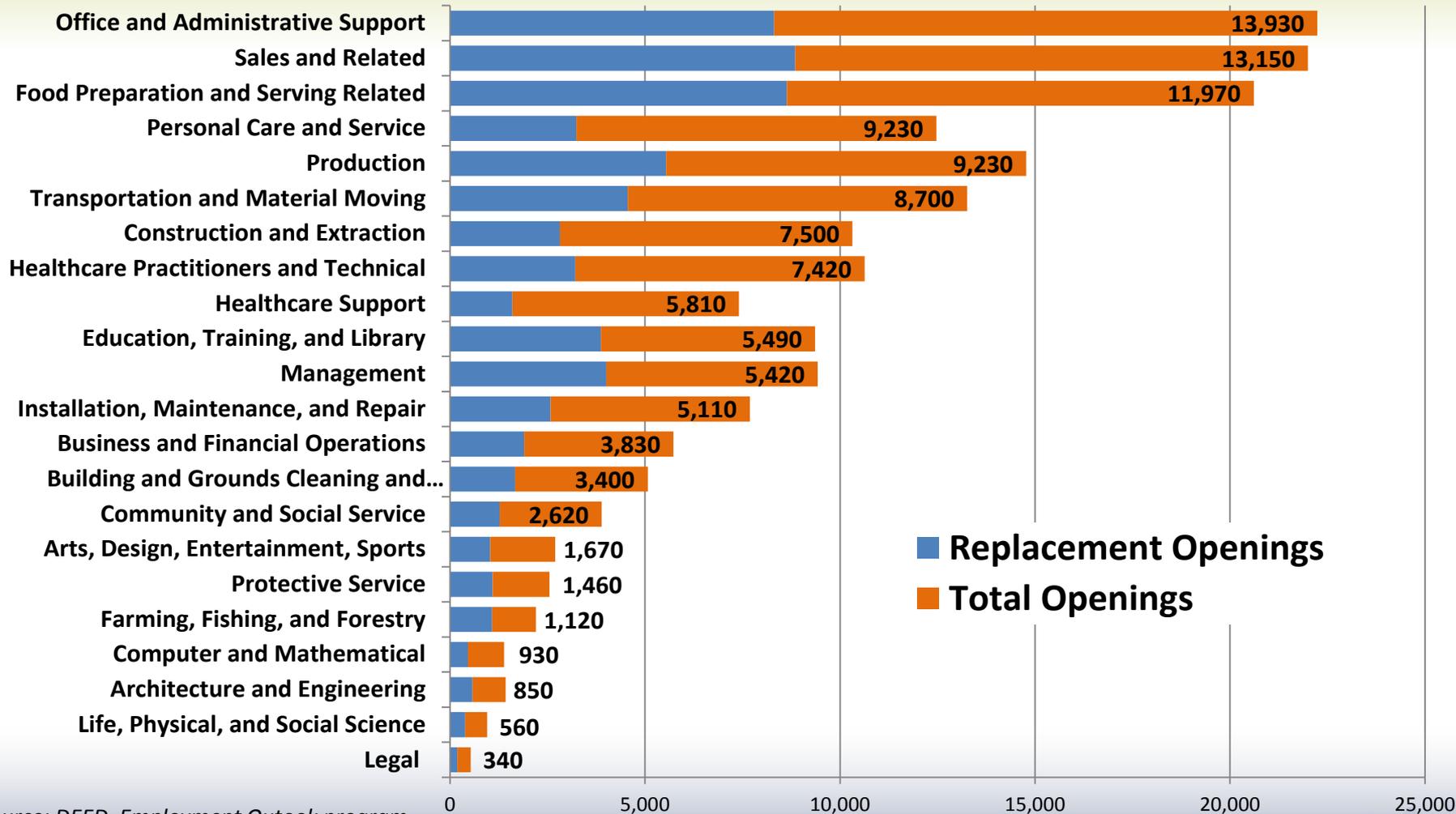
# Occupations In Demand for 7W

High School Diploma or Less	Postsecondary Award & Associate's Degree	Bachelor's Degree or Higher
Food Serving and Prep workers \$18,140	Registered Nurses \$79,709	Operations Research Analyst \$70,266
Stock Clerk and Order Filler \$21,152	Licensed Practical Nurse \$39,411	Industrial Engineer \$75,182
Bill and Account Collectors \$27,288	Construction Managers \$87,349	Sales Reps, Wholesale and Manufacturing \$79,238
Personal Care Aides \$22,335	Preschool Teachers \$29,170	Accountants and Auditors \$59,777
Laborers, Freight and Stock Movers \$24,310	Medical and Lab Tech. \$43,239	Cost Estimators \$54,853
Heavy Tractor-Trailer Drivers \$40,863	Radiologic Tech. \$63,212	Software Developers \$69,371
General Office Clerks \$29,101	Mechanical Engineering Tech. \$47,040	HR Specialists \$47,189
Tellers \$25,388	Civil Engineering Tech. \$56,656	Computer Programmer \$55,028
Counselors, Substance and Behavioral \$50,516	Ag. And Food Science Tech. \$40,352	Marketing Manager \$90,585
Loan Interviewers and Clerks \$32,130	Environmental Science Tech. \$41,746	Financial Manager \$85,680

*Source: DEED Occupations In Demand (OID) program*

- 358 occupations are in relatively high demand in EDR 7W

# 2010-2020 Central MN Projections



Source: DEED, Employment Outlook program

# Graduate Employment Outcomes Tool

## 3 Key Aspects of Employment

1. EMPLOYABILITY  
(in-state employment rate)

2. FULLTIME AND YEAR-ROUND STATUS  
(job quality and job stability)

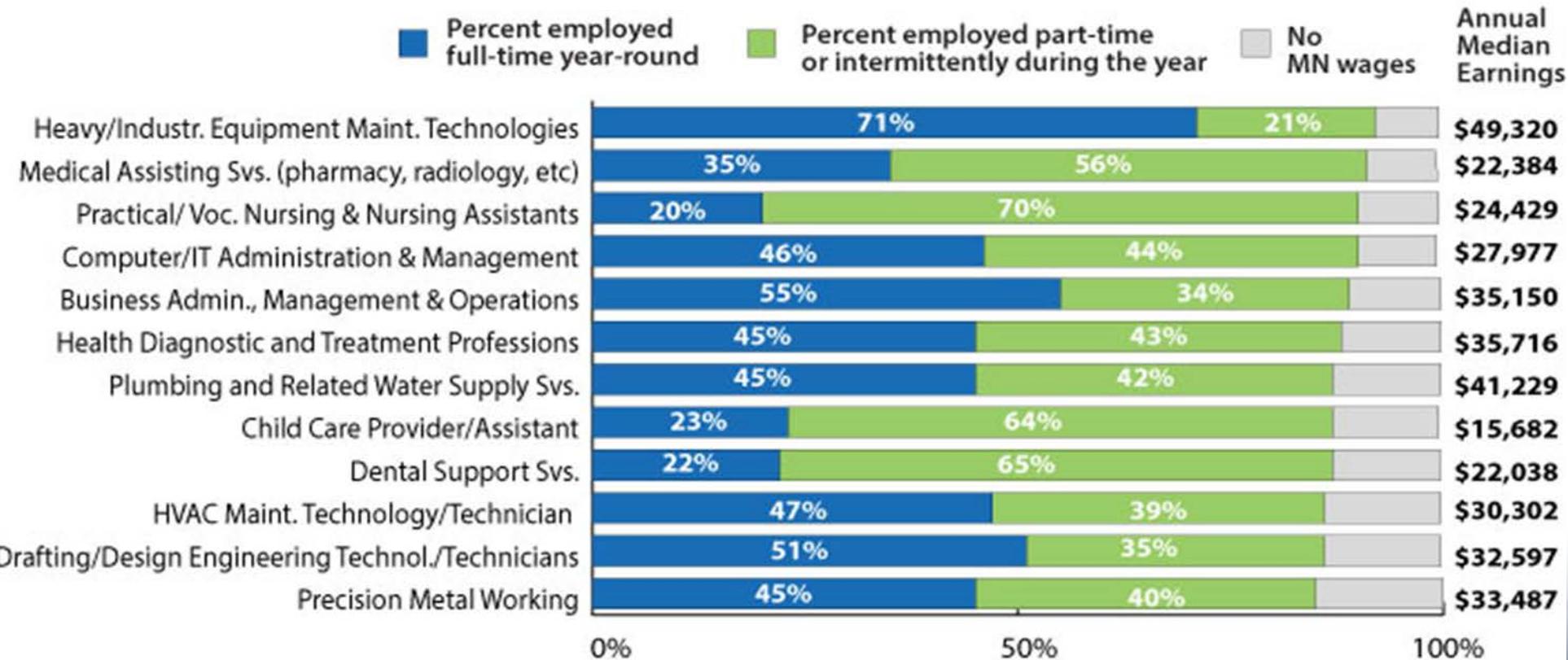
3. EARNINGS



# Certificate Programs Outcomes

- What is the median wage 2 years after graduating with a certificate?
- \$34,770, 35% work FT and year-round

**Figure 1: Top 12 majors with highest employment rates:  
Sub-baccalaureate Certificates\*, class of 2011**

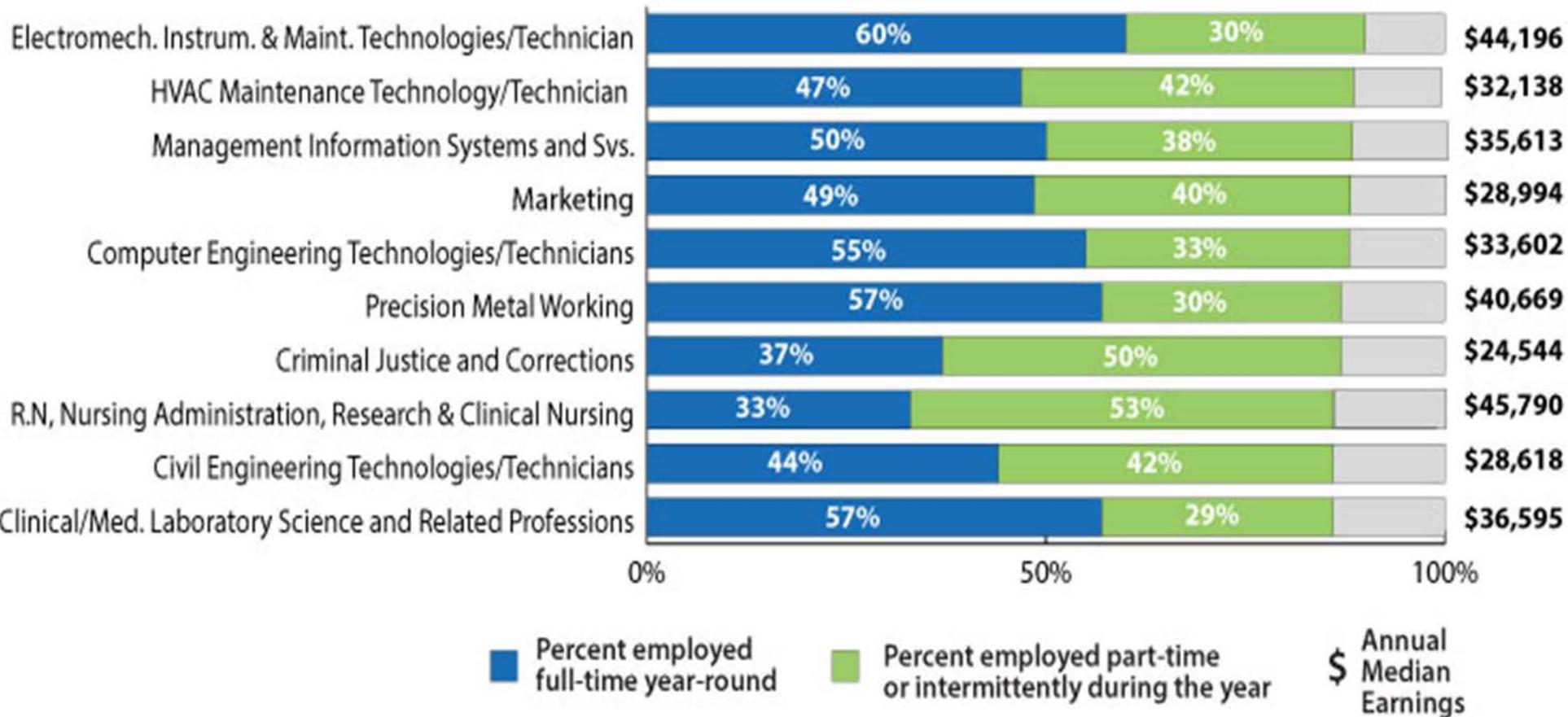


\*Programs with less than 50 graduates were excluded

# Associate Degree Outcomes

- What is the median annual wage 2 years after graduating with an associate degree?
- \$37,111, 36% work FT and year-round

Figure 2 **Top 10 Associate Degree programs with the highest employability in Minnesota, class of 2011**



# Bachelor degree outcomes

- What is the median annual wage 2 years after graduating with a bachelor degree?
- \$40,383, 44% are working FT and year-round

Top median wages for bachelor degree programs 2 years after graduating (2010-2011 graduates)

Rank	Educational Program	Graduates	% working full time and year round	Median Wages
1	Industrial Engineering	14	91%	\$64,818
2	Registered Nursing, Nursing Administration, Nursing Research and Clinical Nursing	1,504	40%	\$63,469
3	Chemical Engineering	124	76%	\$61,313
4	Business/Commerce, General	103	74%	\$61,283
5	Electrical, Electronics and Communications Engineering	208	71%	\$60,690
6	Computer Engineering	45	68%	\$60,071
7	Computer Science	338	77%	\$58,497
8	Biological and Biomedical Sciences, Other	51	28%	\$58,006
9	Mechanical Engineering	342	75%	\$57,830
10	Clinical/Medical Laboratory Science/Research and Allied Professions	22	85%	\$57,106
11	Materials Engineering	42	73%	\$55,354
12	Computer and Information Sciences, General	119	73%	\$54,610
13	Management Information Systems and Services	149	74%	\$53,790
14	Industrial Production Technologies/Technicians	68	58%	\$52,302
15	Computer Systems Networking and Telecommunications	43	87%	\$51,430

Source: DEED Graduate Employment Outcomes tool

# Major Matters

**Figure 4: Majors with the highest median wages during the second year after graduation by degree level, class of 2011**

## UNDERGRADUATE CERTIFICATES

Heavy/Industrial Equipment Maintenance Technologies	\$49,320
Plumbing and Related Water Supply Services	\$41,229
Electromech. Instr. & Maint. Technologies/Technicians	\$36,697
Building Maintenance and Inspection	\$36,218
Surgical Technologist/ EMT paramedic	\$35,716

## ASSOCIATE DEGREE

RN, Nursing Administration, and Clinical Nursing	\$45,790
Electromech. Instr. & Maint. Technologies/Technicians	\$44,196
Precision Metal Working	\$40,669
Industrial Production Technologies/Technicians	\$40,347
Electrical Engineering Technologies/Technicians	\$38,636

## BACHELOR'S DEGREE

Electrical, Electronics and Communications Engineering	\$57,722
Business/Commerce, General	\$57,227
RN, Nursing Administration, and Clinical Nursing	\$56,952
Chemical Engineering	\$56,900
Mechanical Engineering	\$55,384

## POST-BACCALAUREATE DEGREES AND CERTIFICATES

Pharmacy, Pharmaceutical Sciences, and Administration	\$101,741
Engineering-Related Fields	\$82,057
RN, Nursing Administration, Research, and Clinical Nursing	\$79,254
Computer Science	\$77,565
Applied Mathematics	\$76,607

# Graduate Employment Outcomes

- Findings show that two-thirds of graduates were employed in Minnesota a year after graduation
- Overall, wages increased with education level
  - Hourly wages for bachelor's and graduate degree completers rose at a faster rate than others between 12 and 24 months after graduation, suggesting stronger earning power in the long run
- Both full-time and year-round employment status affect wage results. Individuals who worked full-time for the whole year earned considerably more than the total population employed
- Overall, only 42% of 2011 completers who were employed managed to find a full-time job and keep it for the whole year
  - These results stand as evidence of under-employment, or under-utilization of skills in the economy
- Healthcare & Social Assistance was the dominant employer, employing one fourth (24%) of new graduates with jobs

# Graduate Employment Outcomes

- Prospective students, to set realistic expectations for employment and wages following graduation
- Parents and career counselors, to help prospective students plan their education
- Education program planners interested in aligning program offerings to market demand
- Policy makers interested in evaluating the state's returns on investments in higher education
- **Choice of major (with a focus on career paths and labor market trends) is the main driver of economic success after graduation**
  - There are more opportunities in MN for people with degrees that are technical (focused on analytical/quantitative skills) or geared towards growing sectors (Healthcare & Social Assistance, Education)
  - *This is true at every award level!*

# See for yourself...



Minnesota

DEPARTMENT OF EMPLOYMENT AND ECONOMIC DEVELOPMENT

## GRADUATE EMPLOYMENT OUTCOMES IN MINNESOTA

Graduation Year:

School Location:

Award Type:
  Certificates (less than Bachelor's Degrees)
  Associate Degree
  Bachelor's Degree
  Graduate (Certificates and Degrees)
  All Awards

Institution Type:

Instructional Program:  
 (Multiple selections: Ctrl+Click)
 

- English language and literature/letters
- Family and consumer sciences/human sciences
- Foreign languages, literatures, and linguistics
- Health professions and related programs
- History
- Homeland security, law enforcement, firefighting and related protective services

OR Program Keyword Search:

You Selected: Academic Year 2010-2011, Minnesota Statewide, All Institution Types, Award - Bachelor's Degree

View Detail	CIP	Instructional Program	Graduates	Second Year After Graduation				
				Percent Graduates With Reported Wages In MN During The Year	Annual Median Wage	Percent Employed Year-round	Percent Employed Full Time Year-round	Full-time Year-round Median Wage
<input type="checkbox"/>	01	Agriculture, agriculture operations, and related sciences	230	56%	\$22,589	40%	25%	\$37,137
<input type="checkbox"/>	05	Area, ethnic, cultural, gender, and group studies	172	57%	\$20,707	35%	17%	\$34,692
<input type="checkbox"/>	26	Biological and biomedical sciences	1,854	61%	\$18,954	40%	19%	\$23,194

## Graduate Employment Outcomes

Graduate Employment Outcomes shows how many Minnesota graduates are finding Minnesota jobs, and at what wages.

### Snapshot

For full results, see [Graduate Employment Outcomes](#).

### Full-Time Employment and Earnings 2nd, 3rd, and 4th Year from Graduation Class of 2007, 2008, 2009

Instructional Program
 

- Family and consumer sciences/human sciences
- Foreign languages, literatures, and linguistics
- Health professions and related programs
- History
- Homeland security, law enforcement, firefighting and related protective services
- Legal professions and studies
- Liberal arts and sciences, general studies and humanities
- Mathematics and statistics

Education Level
 

- Certificate
- Associate
- Bachelor's
- Graduate Degree

Certificate	Associate	Bachelor's	Graduate Degr.
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<http://mn.gov/deed/data/data-tools/graduate-employment-outcomes.jsp>

# Work your way around DEED's Website

## GENERATING FRESH INSIGHTS INTO CLEAN ENERGY INDUSTRIES.

This sweeping new study analyzes the growth and economic potential of energy-efficient and renewable energy technology in Minnesota, focusing on five key industries.

Learn more about [Minnesota's Clean Energy Economy](#).

1 2 3 11

## DATA CENTER



### Up Close on Unemployment

Minnesota's unemployment rate fell two-tenths of a percentage point in September to 4.1 percent on a seasonally adjusted basis, a rate last seen in September 2006. The number of unemployed Minnesotans stood at 122,097 in September. This is less than half the number of unemployed Minnesotans during May 2009 when the unemployment rate reached its recessionary high of 8.3 percent.

The national unemployment rate fell in September to 5.9 percent, its lowest rate since July 2008.

1 2 3 4 11

## We've Got Your Number

Nothing tells a story like numbers. And here is where we help you do the talking. You'll find data and data tools that give you a comprehensive nuts-and-bolts look at Minnesota's economy and workforce.

### Current Economic Highlights

The freshest available snapshot of Minnesota's economic performance on several job and employment fronts.

### Economic Trends

This quarterly magazine provides expert analysis of the state's labor market, industries and economy.

### Talk to Our Experts

Our analysts are available to explain how to use and interpret the data we provide. Get answers over the phone or by email.

### Data Tools

Dig deep into data on employment, unemployment, wages and occupations, regional and state comparisons and more.

### Employment Review

This monthly publication provides labor market conditions and key economic indicators statewide.

### Data Release Schedule

Get new data the moment it's available. View scheduled dates for release of employment and unemployment data.

### Export and Trade Statistics

Quarterly and annual reports and analysis of the state's top export markets and industries. Includes current and past years.

### Research and Analysis

Analysis of key industries and sectors, current and emerging business issues, and workforce and economic trends.

## NEWS CENTER

[Foreign Students on the Rise. Contribute \\$354 Million to Economy](#)

November 17, 2014

[DEED Awards 12 Job Skills Partnership Grants to Train Minnesota Workers](#)

November 14, 2014

[Export Assistance Grants Available from Minnesota Trade Office](#)

November 14, 2014

## UPCOMING EVENTS

[OWATONNA REGIONAL JOB FAIR](#)

Dec. 11

Join us for the upcoming Owatonna Regional Job Fair.

[ARAB HEALTH 2015](#)

Jan. 26 - 29

Arab Health offers Minnesota companies an opportunity to meet the medical and scientific community of the Middle East.

[More Events](#)

## DEED BLOGS

[RURAL RENEWAL IN NORTHWEST MN IS GOOD FOR MANUFACTURERS](#)

The return of 30- and 40-somethings is a plus for the region's workforce.

[SPOTLIGHT ON PRECISION MANUFACTURING CAREERS](#)

Opportunities for rewarding careers are continuing to grow in this exciting field.

[MORE BLOG POSTS](#)

<http://mn.gov/deed/>

DATA
Current Economic Highlights
<b>Data Tools</b>
Affirmative Action Statistics
Employers Search
Compare Minnesota
Compare Twin Cities
Cost of Living
Current Employment Statistics
Employment Outlook
Graduate Employment Outcomes
Match Jobs to Experience
Job Vacancy Survey
Local Area Unemployment Statistics
Made in Minnesota
Occupational Employment Statistics
Occupational Staffing Patterns
Occupations in Demand
Quarterly Census of Employment and Wages
Quarterly Workforce Indicators
Regional Data Tool
Unemployment Insurance Statistics
<b>Export and Trade Statistics</b>
<b>Research and Analysis</b>
<b>Talk to Our Experts</b>
<b>Data Release Schedule</b>

## Data Tools

View: [Data Release Schedule](#) | [Talk](#)

### Employment & Wage

#### Occupational Employment Statistics

See wages by occupation and region th

#### Current Employment Statistics

Monthly survey offers data on nonfarm

#### Quarterly Census of Employment

Track wages and employment by indu: Minnesota establishments.

#### Affirmative Action Statistics

Statistical reports, available by region,

#### Occupational Staffing Patterns

Get estimates of occupational employ

#### Quarterly Workforce Indicators

Get quarterly workforce information fr

### Employment Project

#### Occupations in Demand

High-demand jobs for each region of t

# Tool Locations

- All of DEED's LMI tools can be accessed in the grey colored pane on the left.
- Methodology and current findings are available when the tool is selected

# Questions?





# Let us know how we can help

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