



# Real-time quarterly workforce indicators

## Q1 2013

### Detroit report

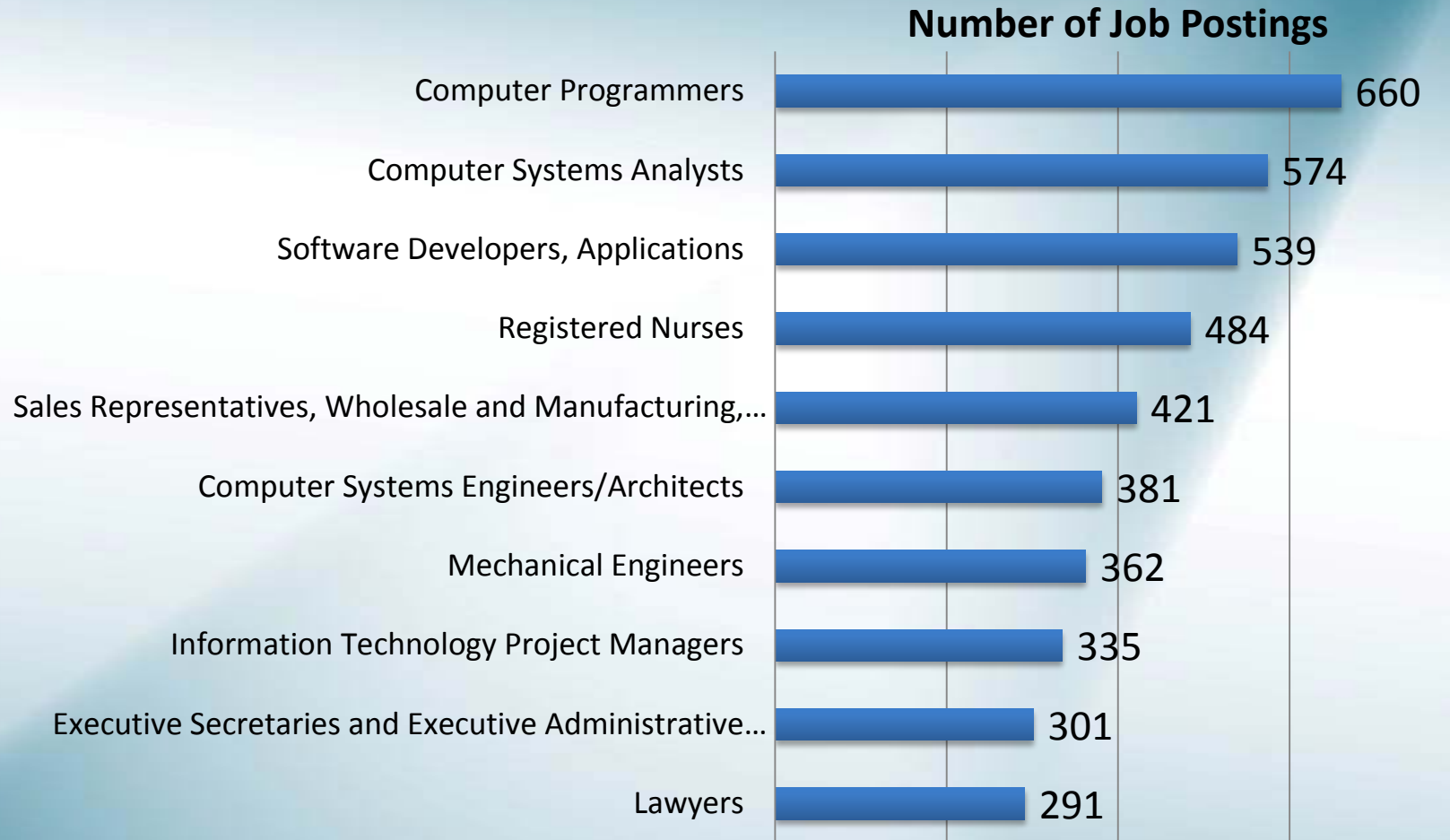


## Section one

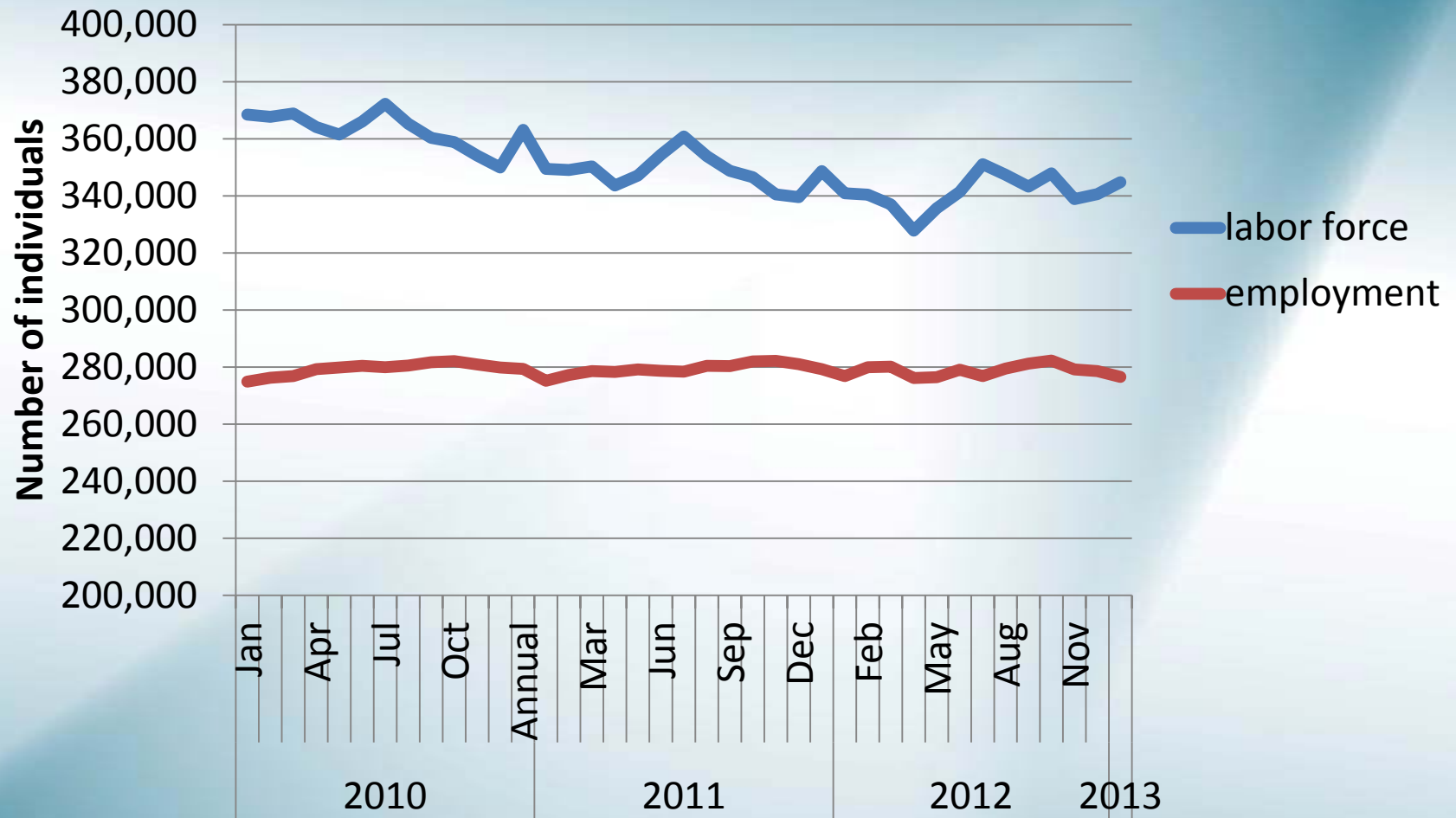
# DEMAND OVERVIEW

| Time Period                                  | Job Postings |
|--|--------------|
| Total Postings Jan-Mar 2013                  | 16,760       |
| Total Postings Previous Quarter Oct-Dec 2012 | 12,822       |
| Total Postings previous year Jan-Mar 2012    | 14,193       |

# Top jobs in demand (January-March 2013)



# Employment and the labor force



# Employment overview

|                          | Current        | Prior quarter |         | one year prior |         |
|--------------------------|----------------|---------------|---------|----------------|---------|
|                          | period         |               |         |                |         |
|                          | Jan-13         | Dec-12        | Nov-12  | Oct-12         | Jan-12  |
| <b>Labor force</b>       | <b>344,865</b> | 340,660       | 338,934 | 347,928        | 340,909 |
| <b>Employment</b>        | <b>276,507</b> | 278,550       | 279,221 | 282,324        | 276,803 |
| <b>Unemployment</b>      | <b>68,358</b>  | 62,110        | 59,713  | 62,110         | 64,106  |
| <b>Unemployment rate</b> | <b>19.8%</b>   | 18.2%         | 17.6%   | 18.9%          | 18.8%   |

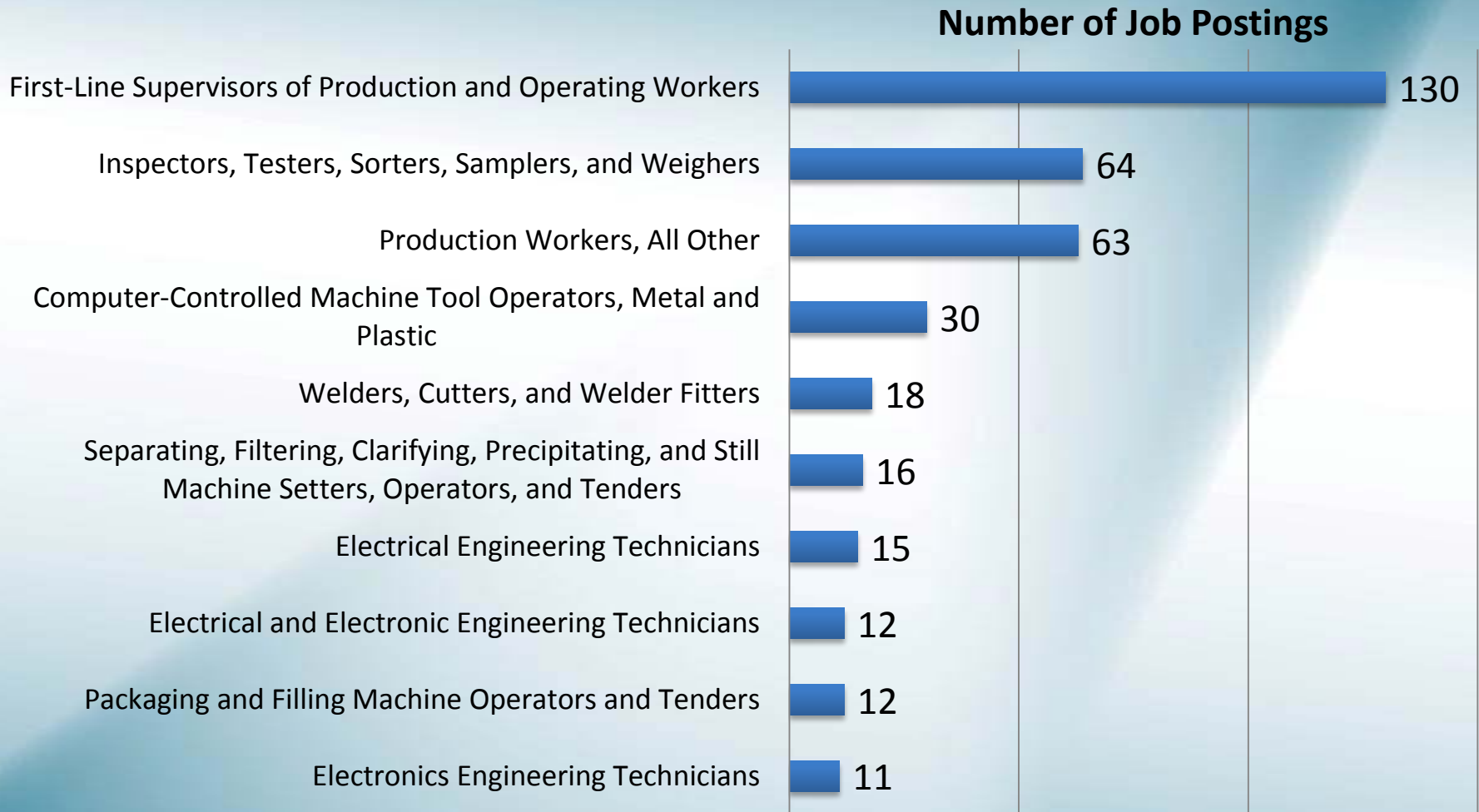
Section two

# OCCUPATIONAL CLUSTERS

# Demand Over Time

| Time Period                               | Job Postings |
|---|--------------|
| Skilled trades Jan-Mar 2013               | 517          |
| Skilled trades Oct-Dec 2012               | 377          |
| Skilled trades previous year Jan-Mar 2012 | 471          |

# Top 10 jobs in demand (January-March 2013)





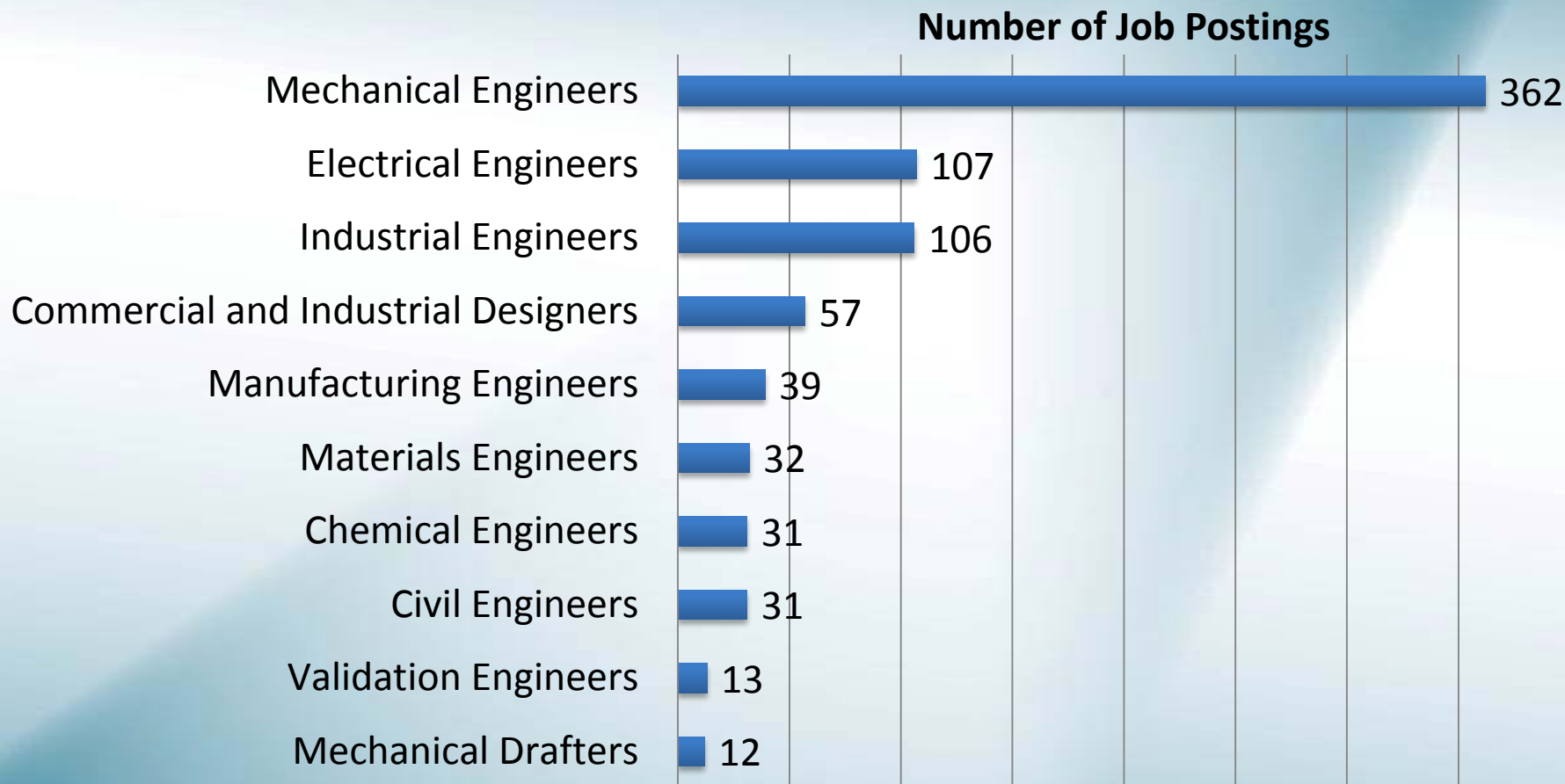
# Top 10 jobs wages and education requirements

| ONET-8     | Occupation title  | 10th percentile wage | Median hourly wage | 90th percentile wage | % 2011 national employment requiring some college or associate's degree | % 2011 national employment requiring a bachelor's or higher |
|------------|---|----------------------|--------------------|----------------------|---|---|
| 51-1011    | First-Line Supervisors/Managers of Production and Operating Workers                                 | \$18.58              | \$29.97            | \$44.61              | 34%   | 15%   |
| 51-9061    | Inspectors, Testers, Sorters, Samplers, and Weighers  | \$11.44              | \$19.68            | \$29.80              | 35%   | 15%   |
| 51-9199    | Production Workers, All Other   | \$9.78               | \$16.73            | \$31.10              | 26%   | 4%  |
| 51-4011    | Computer-Controlled Machine Tool Operators, Metal and Plastic                                       | \$11.90              | \$19.31            | \$27.39              | 43%   | 7%  |
| 51-4121    | Welders, Cutters, Solderers, and Brazers  | \$12.39              | \$18.14            | \$28.06              | 26%   | 2%  |
| 51-9012    | Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders | \$12.43              | \$15.19            | \$19.12              | 35%   | 21%   |
| 17-3023.03 | Electrical Engineering Technicians  | \$16.88              | \$26.07            | \$34.54              | 56%   | 17%   |
| 17-3023    | Electrical and Electronic Engineering Technicians   | \$16.88              | \$26.07            | \$34.54              | 56%   | 17%   |
| 51-9111.00 | Packaging and Filling Machine Operators and Tenders   | \$8.39               | \$14.39            | \$20.65              | 19%   | 4%  |
| 17-3023.01 | Electronics Engineering Technicians   | \$16.88              | \$26.07            | \$34.54              | 56%   | 17%   |

# Demand Over Time

| Time Period  | Job Postings |
|--|--------------|
| Engineers and Designers Jan-Mar 2013               | 855          |
| Engineers and Designers Oct-Dec 2012               | 853          |
| Engineers and Designers previous year Jan-Mar 2012 | 780          |

# Top 10 jobs in demand (January-March 2013)





# Top 10 jobs wages and education requirements

| ONET-8     | Occupation title                    | 10th Percentile | Median Wage | 90th Percentile | % 2011 National Employment Requiring Some College or Associate's Degree | % 2011 National Employment Requiring a Bachelor's or Higher |
|------------|-------------------------------------|-----------------|-------------|-----------------|---|---|
| 17-2141.00 | Mechanical Engineers                | \$30.91         | \$43.12     | \$58.37         | 24%   | 71%   |
| 17-2071.00 | Electrical Engineers                | \$28.48         | \$39.81     | \$58.28         | 19%   | 77%   |
| 17-2112.00 | Industrial Engineers                | \$27.24         | \$40.86     | \$55.12         | 22%   | 73%   |
| 27-1021.00 | Commercial and Industrial Designers | \$22.45         | \$37.34     | \$49.24         | 34%   | 51%   |
| 17-2199.04 | Manufacturing Engineers             | \$22.90         | \$41.46     | \$59.36         | NA  | NA  |
| 17-2131.00 | Materials Engineers                 | \$27.66         | \$36.96     | \$54.85         | 21%   | 71%   |
| 17-2041.00 | Chemical Engineers                  | \$26.52         | \$41.11     | \$55.15         | 10%   | 88%   |
| 17-2051.00 | Civil Engineers                     | \$21.51         | \$33.46     | \$48.13         | 13%   | 83%   |
| 17-2199.02 | Validation Engineers                | \$22.90         | \$41.46     | \$59.36         | NA  | NA  |
| 17-3013.00 | Mechanical Drafters                 | \$16.21         | \$24.69     | \$34.79         | 56%   | 27%   |



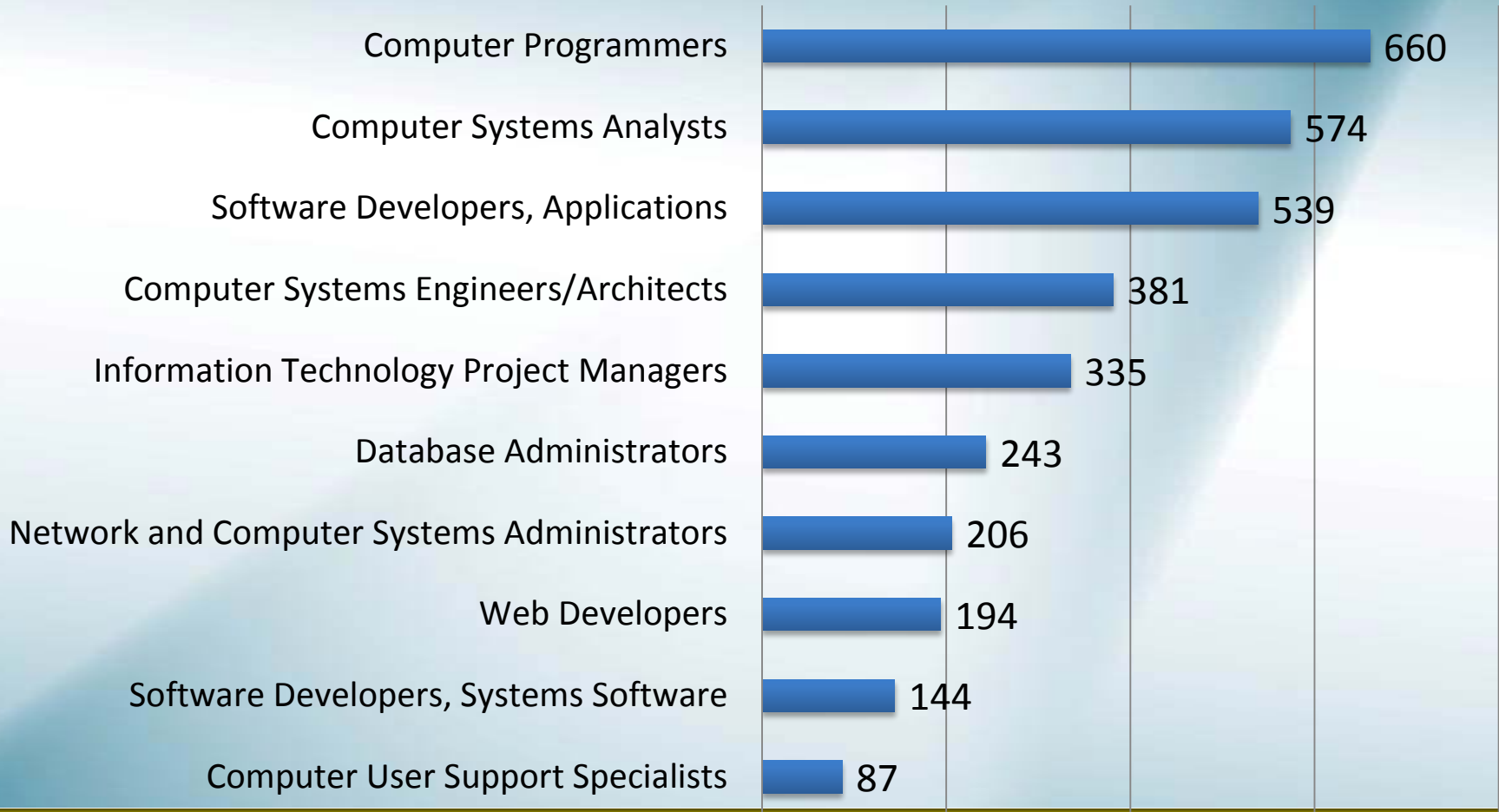
Advanced manufacturing – engineers and designers

# Demand Over Time

| Time Period                   | Job Postings |
|-------------------------------|--------------|
| IT Jan-Mar 2013               | 3,735        |
| IT Oct-Dec 2012               | 2,827        |
| IT previous year Jan-Mar 2012 | 1,827        |

# Top 10 jobs in demand

## Number of Job Postings



# Top 10 jobs wages and education requirements

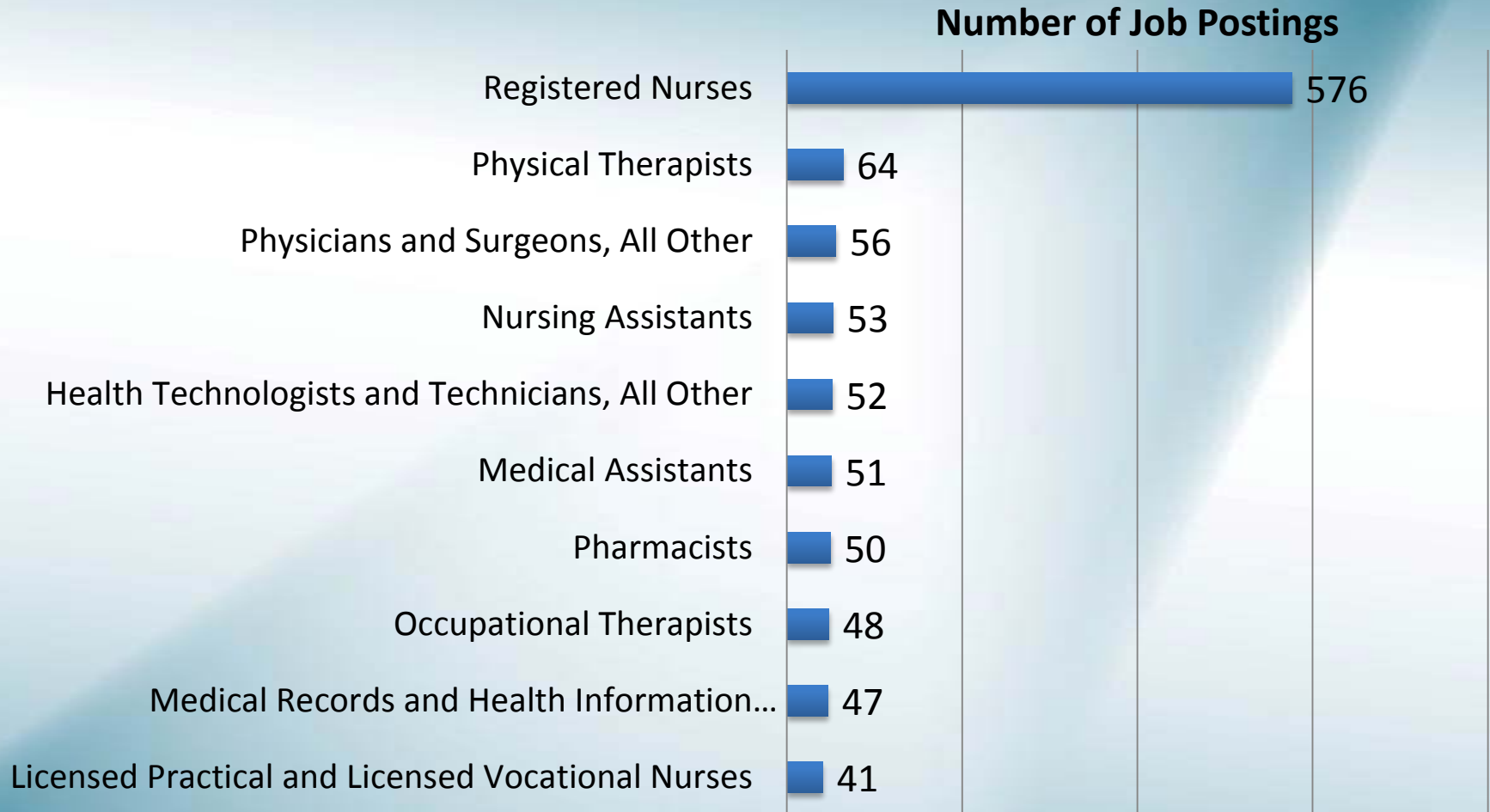
| ONET-8     | Occupation title                            | 10th percentile wage | Median Hourly Wage | 90th percentile wage | % 2011 national employment requiring some college or associate's degree | % 2011 national employment requiring a bachelor's or higher |
|------------|---|----------------------|--------------------|----------------------|---|---|
| 15-1131    | Computer Programmers                        | \$20.89              | \$31.93            | \$45.01              | 25%   | 69%   |
| 15-1121    | Computer Systems Analysts                   | \$25.26              | \$35.96            | \$51.32              | 24%   | 70%   |
| 15-1132    | Software Developers, Applications           | \$25.06              | \$37.07            | \$53.99              | 15%   | 82%   |
| 15-1199.02 | Computer Systems Engineers/Architects       | \$17.36              | \$32.58            | \$48.73              | 42%   | 45%   |
| 15-1199.09 | Information Technology Project Managers     | \$17.36              | \$32.58            | \$48.73              | 42%   | 45%   |
| 15-1141    | Database Administrators                     | \$22.04              | \$34.96            | \$48.56              | 27%   | 66%   |
| 15-1142    | Network and Computer Systems Administrators | \$21.98              | \$33.04            | \$48.02              | 46%   | 46%   |
| 15-1134    | Web Developers*                             | \$17.53              | \$27.76            | \$39.70              | 32%   | 61%   |
| 15-1133    | Software Developers, Systems Software       | \$25.05              | \$39.13            | \$55.36              | 15%   | 82%   |
| 15-1151    | Computer User Support Specialists*          | \$13.77              | \$21.62            | \$34.88              | 48%   | 39%   |

# Demand Over Time

| Time Period                            | Job Postings |
|--|--------------|
| Health care Jan-Mar 2013               | 1,601        |
| Health care Oct-Dec 2012               | 1,308        |
| Health care previous year Jan-Mar 2012 | 1,643        |



# Top 10 jobs in demand (January-March 2013)



# Top 10 jobs wages and education requirements

| ONET-8     | Occupation title                                   | 10th percentile wage | Median hourly wage | 90th percentile wage | % 2011 national employment requiring some college or associate's degree | % 2011 national employment requiring a bachelor's or higher |
|------------|--|----------------------|--------------------|----------------------|---|---|
| 29-1141.00 | Registered Nurses                                  | \$24.50              | \$32.12            | \$41.65              | 44%   | 55%   |
| 29-1123.00 | Physical Therapists                                | \$17.60              | \$36.88            | \$50.08              | 8%  | 90%   |
| 29-1069.00 | Physicians and Surgeons, All Other                 | \$32.30              | \$71.83            | \$122.58             | 1%  | 99%   |
| 31-1014.00 | Nursing Assistants                                 | \$8.95               | \$12.10            | \$15.58              | 42%   | 8%  |
| 29-2099.00 | Health Technologists and Technicians, All Other    | \$16.08              | \$20.82            | \$32.33              | 50%   | 27%   |
| 31-9092.00 | Medical Assistants                                 | \$10.04              | \$13.32            | \$17.91              | 64%   | 9%  |
| 29-1051.00 | Pharmacists  | \$40.40              | \$53.63            | \$81.41              | 5%  | 95%   |
| 29-1122.00 | Occupational Therapists                            | \$22.12              | \$32.26            | \$46.50              | 10%   | 89%   |
| 29-2071.00 | Medical Records and Health Information Technicians | \$11.96              | \$17.02            | \$26.55              | 51%   | 16%   |
| 29-2061.00 | Licensed Practical and Licensed Vocational Nurses  | \$16.58              | \$21.91            | \$28.04              | 74%   | 5%  |

Section three

# DATA NOTES AND SOURCES

# Understanding clusters

- Rather than focusing on talent demand within industries (types of firms), WIN generally emphasizes exploring talent demand based on occupations, including the skills, educational credentials, and experience needed to work in them.
- WIN research examines industry data, as the health of companies can be useful for economic development purposes. However, shifting focus from industry to occupation is important as different types of occupations with extremely different skillsets may work within and across industries. For example, accountants, computer specialists, and engineers all may work in the manufacturing industry.
- By clustering occupations, the talent system can identify employer demand for particular skillsets across multiple industry types and develop a response through training and pipeline development to meet that demand.

# Understanding demand vs. employment

- Employment refers to actual employment numbers—the number of *people in jobs*—in targeted industries or occupations.
- Demand refers to statistics derived from employer *job postings*, which indicate the potential for employment but may or may not materialize into actual jobs.

# Data sources

Labor market demand data for this report was compiled using Burning Glass Technologies' Labor Insight Tool, and analyzed by the Workforce Intelligence Network. Labor force, employment, and unemployment data comes from the U.S. Bureau for Labor Statistics. Check out our website <http://www.win-semich.org> for more data and detailed information about our sources.



For more information about research and data,  
visit our website:

<http://win-semich.org/data-research/>