



3 RIVERS WIB
THREE RIVERS WORKFORCE INVESTMENT BOARD

Management Occupations in Allegheny County 2015-2025



Management Occupations

Regions

| Code | Description |
|-------|----------------------|
| 42003 | Allegheny County, PA |

Timeframe

2015 - 2025

Datarun

2016.1 – QCEW Employees



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Occupation Summary for Management Occupations

| | | |
|--|--|---|
| 29,195 Jobs (2015) 16% below National average | 6.7% % Change (2015-2025) Nation: 11.5% | \$51.86/hr Median Hourly Earnings Nation: \$48.62/hr |
|--|--|---|

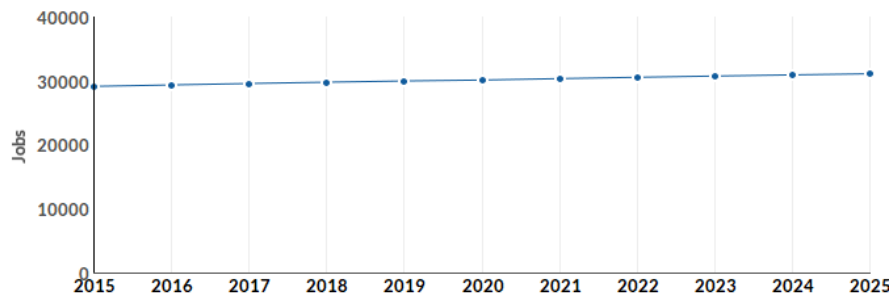


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Growth

| | | | |
|----------------------------|----------------------------|------------------------------------|-------------------------------------|
| 29,195 2015 Jobs | 31,159 2025 Jobs | 1,964 Change (2015-2025) | 6.7% % Change (2015-2025) |
|----------------------------|----------------------------|------------------------------------|-------------------------------------|



| Occupation | 2015 Jobs | 2025 Jobs | Change | % Change |
|---|-----------|-----------|--------|----------|
| Chief Executives (11-1011) | 1,423 | 1,449 | 26 | 2% |
| General and Operations Managers (11-1021) | 8,539 | 9,027 | 488 | 6% |
| Legislators (11-1031) | 234 | 223 | -11 | -5% |
| Advertising and Promotions Managers (11-2011) | 85 | 89 | 4 | 5% |
| Marketing Managers (11-2021) | 736 | 849 | 113 | 15% |
| Sales Managers (11-2022) | 1,282 | 1,353 | 71 | 6% |
| Public Relations and Fundraising Managers (11-2031) | 335 | 355 | 20 | 6% |
| Administrative Services Managers (11-3011) | 1,012 | 1,093 | 81 | 8% |
| Computer and Information Systems Managers (11-3021) | 1,916 | 2,107 | 191 | 10% |
| Financial Managers (11-3031) | 2,316 | 2,485 | 169 | 7% |
| Industrial Production Managers (11-3051) | 626 | 614 | -12 | -2% |
| Purchasing Managers (11-3061) | 291 | 316 | 25 | 9% |



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| Occupation | 2015 Jobs | 2025 Jobs | Change | % Change |
|--|-----------|-----------|--------|----------|
| Transportation, Storage, and Distribution Managers (11-3071) | 292 | 306 | 14 | 5% |
| Compensation and Benefits Managers (11-3111) | 114 | 117 | 3 | 3% |
| Human Resources Managers (11-3121) | 445 | 526 | 81 | 18% |
| Training and Development Managers (11-3131) | 132 | 144 | 12 | 9% |
| Farmers, Ranchers, and Other Agricultural Managers (11-9013) | 25 | 22 | -3 | -12% |
| Construction Managers (11-9021) | 812 | 912 | 100 | 12% |
| Education Administrators, Preschool and Childcare Center/Program (11-9031) | 190 | 202 | 12 | 6% |
| Education Administrators, Elementary and Secondary School (11-9032) | 739 | 690 | -49 | -7% |
| Education Administrators, Postsecondary (11-9033) | 692 | 739 | 47 | 7% |
| Education Administrators, All Other (11-9039) | 133 | 135 | 2 | 2% |
| Architectural and Engineering Managers (11-9041) | 894 | 1,012 | 118 | 13% |
| Food Service Managers (11-9051) | 729 | 757 | 28 | 4% |
| Funeral Service Managers (11-9061) | 92 | 90 | -2 | -2% |
| Gaming Managers (11-9071) | 27 | 36 | 9 | 33% |
| Lodging Managers (11-9081) | 85 | 86 | 1 | 1% |
| Medical and Health Services Managers (11-9111) | 1,964 | 2,212 | 248 | 13% |
| Natural Sciences Managers (11-9121) | 563 | 610 | 47 | 8% |



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| Occupation | 2015 Jobs | 2025 Jobs | Change | % Change |
|---|-----------|-----------|--------|----------|
| Postmasters and Mail Superintendents (11-9131) | 112 | 85 | -27 | -24% |
| Property, Real Estate, and Community Association Managers (11-9141) | 627 | 643 | 16 | 3% |
| Social and Community Service Managers (11-9151) | 677 | 716 | 39 | 6% |
| Emergency Management Directors (11-9161) | 34 | 35 | 1 | 3% |
| Managers, All Other (11-9199) | 1,019 | 1,124 | 105 | 10% |

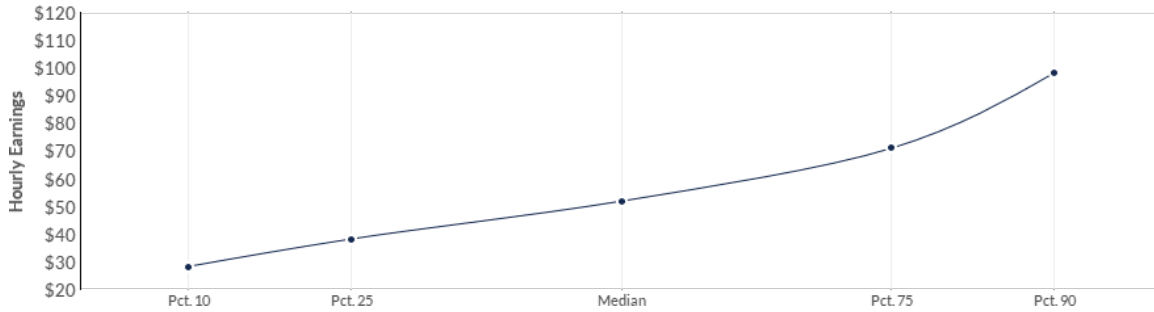


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Percentile Earnings

| | | |
|---|--------------------------------------|---|
| \$38.19/hr 25th Percentile Earnings | \$51.86/hr Median Earnings | \$70.97/hr 75th Percentile Earnings |
|---|--------------------------------------|---|



| Occupation | 25th Percentile Earnings | Median Earnings | 75th Percentile Earnings |
|--|--------------------------|-----------------|--------------------------|
| Chief Executives (11-1011) | \$60.01 | \$92.15 | \$118.05 |
| General and Operations Managers (11-1021) | \$33.20 | \$49.26 | \$75.44 |
| Legislators (11-1031) | \$9.39 | \$14.53 | \$35.32 |
| Advertising and Promotions Managers (11-2011) | \$43.77 | \$57.89 | \$84.43 |
| Marketing Managers (11-2021) | \$53.19 | \$69.17 | \$88.38 |
| Sales Managers (11-2022) | \$40.41 | \$59.68 | \$82.00 |
| Public Relations and Fundraising Managers (11-2031) | \$33.46 | \$45.94 | \$66.34 |
| Administrative Services Managers (11-3011) | \$30.54 | \$42.44 | \$60.34 |
| Computer and Information Systems Managers (11-3021) | \$46.85 | \$57.02 | \$71.32 |
| Financial Managers (11-3031) | \$50.28 | \$65.17 | \$83.62 |
| Industrial Production Managers (11-3051) | \$38.07 | \$47.08 | \$61.30 |
| Purchasing Managers (11-3061) | \$42.57 | \$53.99 | \$66.55 |
| Transportation, Storage, and Distribution Managers (11-3071) | \$40.29 | \$47.32 | \$59.41 |
| Compensation and Benefits Managers (11-3111) | \$42.71 | \$52.93 | \$70.44 |
| Human Resources Managers (11- | \$42.89 | \$52.78 | \$68.24 |



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| Occupation | 25th Percentile Earnings | Median Earnings | 75th Percentile Earnings |
|--|--------------------------|-----------------|--------------------------|
| 3121) | | | |
| Training and Development Managers (11-3131) | \$44.32 | \$55.12 | \$69.51 |
| Farmers, Ranchers, and Other Agricultural Managers (11-9013) | \$19.07 | \$27.55 | \$35.61 |
| Construction Managers (11-9021) | \$38.08 | \$50.76 | \$66.22 |
| Education Administrators, Preschool and Childcare Center/Program (11-9031) | \$16.22 | \$20.77 | \$29.22 |
| Education Administrators, Elementary and Secondary School (11-9032) | \$41.73 | \$47.82 | \$56.84 |
| Education Administrators, Postsecondary (11-9033) | \$28.10 | \$40.41 | \$58.24 |
| Education Administrators, All Other (11-9039) | \$28.20 | \$38.21 | \$46.63 |
| Architectural and Engineering Managers (11-9041) | \$54.29 | \$66.94 | \$80.31 |
| Food Service Managers (11-9051) | \$20.13 | \$25.72 | \$35.98 |
| Funeral Service Managers (11-9061) | \$34.48 | \$51.78 | \$58.51 |
| Gaming Managers (11-9071) | \$23.37 | \$29.51 | \$37.88 |
| Lodging Managers (11-9081) | \$16.63 | \$19.76 | \$35.89 |
| Medical and Health Services Managers (11-9111) | \$30.40 | \$38.37 | \$50.38 |
| Natural Sciences Managers (11-9121) | \$51.96 | \$70.27 | \$93.23 |
| Postmasters and Mail Superintendents (11-9131) | \$29.16 | \$34.75 | \$39.45 |
| Property, Real Estate, and Community Association Managers (11-9141) | \$22.86 | \$32.06 | \$50.18 |
| Social and Community Service Managers (11-9151) | \$23.63 | \$30.49 | \$41.48 |
| Emergency Management Directors (11-9161) | \$19.21 | \$24.68 | \$37.18 |



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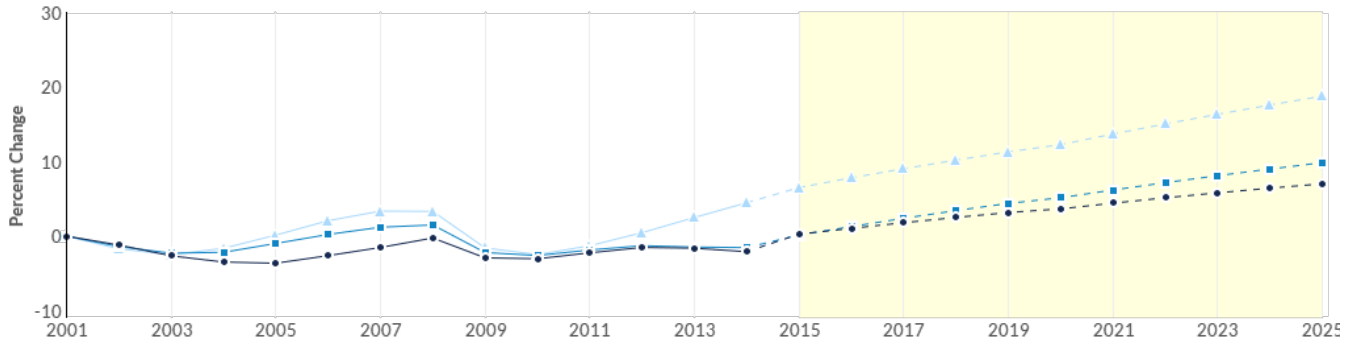
| Occupation | 25th Percentile Earnings | Median Earnings | 75th Percentile Earnings |
|-------------------------------|--------------------------|-----------------|--------------------------|
| Managers, All Other (11-9199) | \$41.70 | \$50.18 | \$63.02 |



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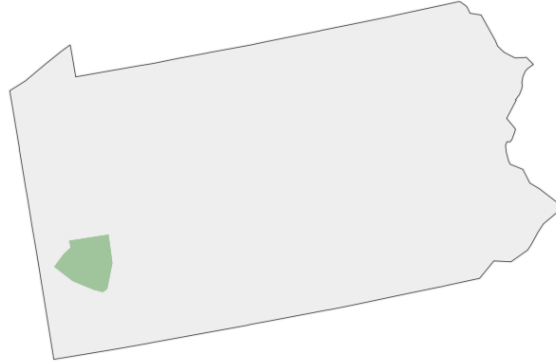
Regional Trends



| | Region | 2015 Jobs | 2025 Jobs | Change | % Change |
|---|--------|-----------|-----------|---------|----------|
| ● | Region | 29,195 | 31,159 | 1,964 | 6.7% |
| ● | State | 224,691 | 246,486 | 21,795 | 9.7% |
| ● | Nation | 7,000,505 | 7,806,942 | 806,437 | 11.5% |



Regional Breakdown



* Highlighted areas show counties that contain the selected zip codes


| ZIP | 2025 Jobs |
|--|------------------|
| Pittsburgh, PA 15222 (in Allegheny county) | 3,855 |
| Pittsburgh, PA 15219 (in Allegheny county) | 2,819 |
| Coraopolis, PA 15108 (in Allegheny county) | 1,703 |
| Pittsburgh, PA 15212 (in Allegheny county) | 1,548 |
| Pittsburgh, PA 15238 (in Allegheny county) | 1,220 |



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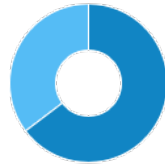
Job Postings Summary

| | |
|---|--|
| <p>4,164 Unique Postings (Mar 2016)</p> <p>20,531 Total Postings</p> | <p>5 : 1 Posting Intensity (Mar 2016)</p> <p>Regional Average: 7 : 1</p>  |
|---|--|

There were **20,531** total job postings for 34 Occupations in March 2016, of which **4,164** were unique. These numbers give us a Posting Intensity of **5-to-1**, meaning that for every 5 postings there is 1 unique job posting. This is lower than the Posting Intensity for all other occupations and companies in the region (7-to-1), indicating that companies may not be trying as hard to hire this position.



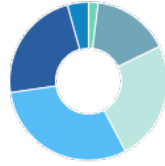
Occupation Gender Breakdown



| | Gender | 2015 Jobs | 2015 Percent | |
|---|---------|-----------|--------------|--|
| • | Males | 18,887 | 64.7% | |
| • | Females | 10,308 | 35.3% | |



Occupation Age Breakdown



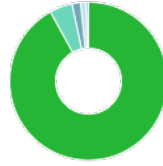
| | Age | 2015 Jobs | 2015 Percent |
|---|-------|-----------|--------------|
| ● | 14-18 | 12 | 0.0% |
| ● | 19-24 | 565 | 1.9% |
| ● | 25-34 | 4,616 | 15.8% █ |
| ● | 35-44 | 7,145 | 24.5% █ |
| ● | 45-54 | 8,877 | 30.4% █ |
| ● | 55-64 | 6,709 | 23.0% █ |
| ● | 65+ | 1,271 | 4.4% █ |










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Occupation Race/Ethnicity Breakdown



| | Race/Ethnicity | 2015 Jobs | 2015 Percent |
|---|---|-----------|--|
| ● | White | 26,846 | 92.0%  |
| ● | Black or African American | 1,359 | 4.7%  |
| ● | Asian | 511 | 1.8%  |
| ● | Hispanic or Latino | 318 | 1.1%  |
| ● | Two or More Races | 132 | 0.5%  |
| ● | American Indian or Alaska Native | 19 | 0.1%  |
| ● | Native Hawaiian or Other Pacific Islander | 9 | 0.0%  |



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Occupational Programs

| 149 Programs (2014) | 9,597 Completions (2014) | 1,294 Openings (2014) |
|-------------------------------|---|---------------------------------|
| CIP Code | Program | Completions (2014) |
| 52.0201 | Business Administration and Management, General | 1,495 |
| 14.1001 | Electrical and Electronics Engineering | 523 |
| 26.0101 | Biology/Biological Sciences, General | 478 |
| 14.1901 | Mechanical Engineering | 457 |
| 52.0801 | Finance, General | 411 |



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Industries Employing Management Occupations

| Industry | Occupation Group Jobs in Industry (2015) | % of Occupation Group in Industry (2015) | % of Total Jobs in Industry (2015) |
|--|--|--|------------------------------------|
| Corporate, Subsidiary, and Regional Managing Offices | 3,956 | 13.6% | 14.8% |
| Commercial Banking | 1,359 | 4.7% | 7.5% |
| Colleges, Universities, and Professional Schools | 1,311 | 4.5% | 5.6% |
| General Medical and Surgical Hospitals | 1,038 | 3.6% | 2.8% |
| Local Government, Excluding Education and Hospitals | 854 | 2.9% | 4.0% |



Appendix A - Occupations

| Code | Description |
|---------|--|
| 11-1011 | Chief Executives |
| 11-1021 | General and Operations Managers |
| 11-1031 | Legislators |
| 11-2011 | Advertising and Promotions Managers |
| 11-2021 | Marketing Managers |
| 11-2022 | Sales Managers |
| 11-2031 | Public Relations and Fundraising Managers |
| 11-3011 | Administrative Services Managers |
| 11-3021 | Computer and Information Systems Managers |
| 11-3031 | Financial Managers |
| 11-3051 | Industrial Production Managers |
| 11-3061 | Purchasing Managers |
| 11-3071 | Transportation, Storage, and Distribution Managers |
| 11-3111 | Compensation and Benefits Managers |
| 11-3121 | Human Resources Managers |
| 11-3131 | Training and Development Managers |
| 11-9013 | Farmers, Ranchers, and Other Agricultural Managers |
| 11-9021 | Construction Managers |
| 11-9031 | Education Administrators, Preschool and Childcare Center/Program |
| 11-9032 | Education Administrators, Elementary and Secondary School |
| 11-9033 | Education Administrators, Postsecondary |
| 11-9039 | Education Administrators, All Other |
| 11-9041 | Architectural and Engineering Managers |
| 11-9051 | Food Service Managers |
| 11-9061 | Funeral Service Managers |
| 11-9071 | Gaming Managers |
| 11-9081 | Lodging Managers |
| 11-9111 | Medical and Health Services Managers |



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| Code | Description |
|-------------|---|
| 11-9121 | Natural Sciences Managers |
| 11-9131 | Postmasters and Mail Superintendents |
| 11-9141 | Property, Real Estate, and Community Association Managers |
| 11-9151 | Social and Community Service Managers |
| 11-9161 | Emergency Management Directors |
| 11-9199 | Managers, All Other |



Appendix B - Data Sources and Calculations

Location Quotient

Location quotient (LQ) is a way of quantifying how concentrated a particular industry, cluster, occupation, or demographic group is in a region as compared to the nation. It can reveal what makes a particular region unique in comparison to the national average.

Occupation Data

EMSI occupation employment data are based on final EMSI industry data and final EMSI staffing patterns. Wage estimates are based on Occupational Employment Statistics (QCEW and Non-QCEW Employees classes of worker) and the American Community Survey (Self-Employed and Extended Proprietors). Occupational wage estimates also affected by county-level EMSI earnings by industry.

Completers Data

The completers data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.

Institution Data

The institution data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.

Industry Data

EMSI industry data have various sources depending on the class of worker. (1) For QCEW Employees, EMSI primarily uses the QCEW (Quarterly Census of Employment and Wages), with supplemental estimates from County Business Patterns and Current Employment Statistics. (2) Non-QCEW employees data are based on a number of sources including QCEW, Current Employment Statistics, County Business Patterns, BEA State and Local Personal Income reports, the National Industry-Occupation Employment Matrix (NIOEM), the American Community Survey, and Railroad Retirement Board statistics. (3) Self-Employed and Extended Proprietor classes of worker data are primarily based on the American Community Survey, Nonemployer Statistics, and BEA State and Local Personal Income Reports. Projections for QCEW and Non-QCEW Employees are informed by NIOEM and long-term industry projections published by individual states.



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Staffing Patterns Data

The staffing pattern data in this report are compiled from several sources using a specialized process. For QCEW and Non-QCEW Employees classes of worker, sources include Occupational Employment Statistics, the National Industry-Occupation Employment Matrix, and the American Community Survey. For the Self-Employed and Extended Proprietors classes of worker, the primary source is the American Community Survey, with a small amount of information from Occupational Employment Statistics.

State Data Sources

This report uses state data from the following agencies: Pennsylvania Department of Labor and Industry, Center for Workforce Information and Analysis