

# Ohio Short-Term Employment Forecast

1st Quarter 2022 to 1st Quarter 2024



## Summary

We project 690,448 annual job openings from the first quarter 2022 to the first quarter of 2024. This includes 278,242 openings due to workers leaving the labor force and 384,106 openings because of workers changing occupations. We expect an additional 28,100 jobs to be created over the period, a statewide employment increase of 1.0%.

## Data Limitations

While we try to ensure the accuracy of the projections, data and forecasts are subject to error. The information in this report is best used as an indicator of employment trends at the time they were produced. Employment forecasts cannot predict unforeseen events or actions. The projections should be used in combination with other data and information. This report provides estimates of the number of jobs, not the number of employees. It makes no distinctions for full-time, part-time, or secondary jobs.

## Occupational Openings

The method of estimating occupational openings considers three sources of change: occupational transfers, labor force exits, and industry growth. Occupational transfers occur when a worker moves from one occupation to another. This leaves an opening in the first occupation. Occupational transfers do not include workers who change jobs but stay in the same occupation because there is no impact on the overall employment within the occupation. Openings from labor force exits occur when workers leave the labor force entirely for retirement or other reasons and the worker will be replaced. The last source of job openings is industry growth. As demand for products and services changes for an industry, the number of workers in that industry can increase or decrease. Occupational job growth is the difference between the base employment and projected employment values for a period. The number of openings created by growth is often lower than openings due to labor force exits and occupational transfers.

To estimate occupational openings, Ohio uses national separation rates calculated by the Bureau of Labor Statistics (BLS) which includes separations caused by labor force exits and separations caused by occupational transfers. Projections of separations are combined with projections of employment change to determine occupational openings.

## Key Points for End Users

Employment projections provide an idea of what is expected for workers in the future. Educators, workforce professionals, employers, job seekers, students, and others can use projections to learn about:

- Areas of the economy that are projected to have positive or negative growth indicating those areas expected to have the best employment opportunities.
- Occupations projected to have more job openings than others, informing stakeholders who prepare and train the workforce.
- Possible career pathways, as occupations with a high number of transfers may lose workers to a related occupation requiring a higher level of education or experience and increased pay.

## **Technical Notes**

The Ohio short-term industry and occupational forecasts were derived primarily from data produced by the Occupational Employment and Wage Statistics (OEWS) and the Quarterly Census of Employment and Wages (QCEW) programs. The forecasts were funded by a grant from the U.S. Department of Labor (DOL).

Short-term (two-year) and long-term (ten-year) employment forecasts are calculated differently and serve different purposes. The two-year forecasts reflect seasonal and business-cycle changes; the ten-year forecasts are strongly influenced by structural changes in the economy. Short-term forecasts provide more timely information; long-term forecasts are helpful for extended economic planning and evaluation.

### **Industry Employment Forecast**

The forecasting models utilized a historical monthly employment series from the QCEW program data through March 2022. Industry groups with three- or four-digit North American Industry Classification System (NAICS) codes were chosen. Trend, ordinary least squares regression, and autoregressive forecasting models were used. These methods measure the relationships between employment and one or more other economic variables, such as unemployment claims, housing valuations, average manufacturing hours, and more.

### **Occupational Employment Forecasts**

Occupational estimates were derived from an industry-occupation matrix. From a three-year OEWS survey cycle, industry staffing patterns were generated based on the Standard Occupational Classification (SOC) coding structure. Occupational patterns for work arrangements outside the scope of the OEWS program (including agriculture, private household, self-employed and unpaid family workers) were developed using U.S. national staffing patterns and U.S. Census of Agriculture information.

### **Wages**

The median wage estimates were produced using OEWS data, which are based on a semiannual mail survey. The survey gathers employment and wage data for specific occupations by geographic area and industry. Statewide Ohio wages were used when available.

### **Educational and Training Classifications**

DOL's educational and training classification system consists of three categories: a) typical education needed for entry, b) commonly required work experience in related occupations, and c) typical on-the-job training needed to obtain competency in the occupation. Complete definitions can be found at [www.bls.gov/emp/documentation/education-training-system.htm](http://www.bls.gov/emp/documentation/education-training-system.htm).

For additional information or questions, please visit [OhioLMI.com](http://OhioLMI.com), or email [ContactLMI@jfs.ohio.gov](mailto:ContactLMI@jfs.ohio.gov).

## Employment Projections Report by Major Industry

### First Quarter 2022 to First Quarter 2024

| Industry Title                                   | 2022<br>Employment | 2024<br>Projected | Change<br>2022 - 2024 |             |
|--|--------------------|-------------------|-----------------------|-------------|
|  |                    |                   | Employment            | Percent     |
| <b>Total - All Industries</b>                    | <b>5,732,497</b>   | <b>5,788,697</b>  | <b>56,200</b>         | <b>1.0%</b> |
| <b>Goods-Producing</b>                           | <b>999,215</b>     | <b>1,009,366</b>  | <b>10,151</b>         | <b>1.0%</b> |
| Agriculture, Forestry, Fishing and Hunting       | 99,285             | 100,243           | 958                   | 1.0%        |
| Mining   | 8,269              | 8,431             | 162                   | 2.0%        |
| Construction                                     | 214,236            | 222,445           | 8,209                 | 3.8%        |
| Manufacturing                                    | 677,425            | 678,247           | 822                   | 0.1%        |
| <b>Service-Providing</b>                         | <b>4,450,824</b>   | <b>4,495,543</b>  | <b>44,719</b>         | <b>1.0%</b> |
| Wholesale Trade                                  | 231,929            | 234,257           | 2,328                 | 1.0%        |
| Retail Trade                                     | 546,644            | 549,683           | 3,039                 | 0.6%        |
| Transportation and Warehousing                   | 256,014            | 280,842           | 24,828                | 9.7%        |
| Utilities  | 17,712             | 16,859            | -853                  | -4.8%       |
| Information                                      | 66,110             | 66,686            | 576                   | 0.9%        |
| Finance and Insurance                            | 250,441            | 251,949           | 1,508                 | 0.6%        |
| Real Estate and Rental and Leasing               | 63,490             | 63,554            | 64                    | 0.1%        |
| Professional, Scientific, and Technical Services | 279,060            | 286,688           | 7,628                 | 2.7%        |
| Management of Companies and Enterprises          | 137,525            | 140,395           | 2,870                 | 2.1%        |
| Administrative and Waste Services                | 311,358            | 313,656           | 2,298                 | 0.7%        |
| Educational Services                             | 424,877            | 422,895           | -1,982                | -0.5%       |
| Health Care and Social Assistance                | 805,878            | 804,968           | -910                  | -0.1%       |
| Arts, Entertainment, and Recreation              | 61,332             | 65,342            | 4,010                 | 6.5%        |
| Accommodation and Food Services                  | 441,955            | 444,336           | 2,381                 | 0.5%        |
| Other Services (except Government)               | 217,031            | 215,860           | -1,171                | -0.5%       |
| Government                                       | 339,468            | 337,573           | -1,895                | -0.6%       |
| <b>Self-Employed and Unpaid Family Workers</b>   | <b>282,458</b>     | <b>283,788</b>    | <b>1,330</b>          | <b>0.5%</b> |

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, March 2023.

## Ohio Short-Term Industry Employment\* Projections

### First Quarter 2022 to First Quarter 2024

| NAICS Code | Industry Title                                      | 2022 Employment  | 2024 Projected   | Change 2022 - 2024 |             |
|------------|---|------------------|------------------|--------------------|-------------|
|            |   |                  |                  | Employment         | Percent     |
|            | <b>Total - All Industries</b>                       | <b>5,732,497</b> | <b>5,788,697</b> | <b>56,200</b>      | <b>1.0%</b> |
|            | <b>Goods-Producing</b>                              | <b>999,215</b>   | <b>1,009,366</b> | <b>10,151</b>      | <b>1.0%</b> |
|            | <b>Natural Resources and Mining</b>                 | <b>107,554</b>   | <b>108,674</b>   | <b>1,120</b>       | <b>1.0%</b> |
|            | Agriculture, Forestry, Fishing and Hunting          | 99,285           | 100,243          | 958                | 1.0%        |
|            | Mining  | 8,269            | 8,431            | 162                | 2.0%        |
|            | <b>Construction</b>                                 | <b>214,236</b>   | <b>222,445</b>   | <b>8,209</b>       | <b>3.8%</b> |
| 236        | Construction of Buildings                           | 50,035           | 52,245           | 2,210              | 4.4%        |
| 237        | Heavy and Civil Engineering Construction            | 24,141           | 25,086           | 945                | 3.9%        |
| 238        | Specialty Trade Contractors                         | 140,060          | 145,114          | 5,054              | 3.6%        |
|            | <b>Manufacturing</b>                                | <b>677,425</b>   | <b>678,247</b>   | <b>822</b>         | <b>0.1%</b> |
| 311        | Food Manufacturing                                  | 60,919           | 61,000           | 81                 | 0.1%        |
| 312        | Beverage and Tobacco Product Manufacturing          | 11,004           | 11,580           | 576                | 5.2%        |
| 321        | Wood Product Manufacturing                          | 13,808           | 14,039           | 231                | 1.7%        |
| 322        | Paper Manufacturing                                 | 21,626           | 21,525           | -101               | -0.5%       |
| 323        | Printing and Related Support Activities             | 18,974           | 18,198           | -776               | -4.1%       |
| 325        | Chemical Manufacturing                              | 48,568           | 49,583           | 1,015              | 2.1%        |
| 326        | Plastics and Rubber Products Manufacturing          | 57,951           | 58,625           | 674                | 1.2%        |
| 327        | Nonmetallic Mineral Product Manufacturing           | 26,057           | 26,782           | 725                | 2.8%        |
| 331        | Primary Metal Manufacturing                         | 34,996           | 35,005           | 9                  | 0.0%        |
| 332        | Fabricated Metal Product Manufacturing              | 96,023           | 96,968           | 945                | 1.0%        |
| 333        | Machinery Manufacturing                             | 76,635           | 78,440           | 1,805              | 2.4%        |
| 334        | Computer and Electronic Product Manufacturing       | 20,849           | 20,494           | -355               | -1.7%       |
| 335        | Electrical Equipment and Appliance Mfg.             | 26,492           | 26,474           | -18                | -0.1%       |
| 336        | Transportation Equipment Manufacturing              | 114,047          | 109,804          | -4,243             | -3.7%       |
| 337        | Furniture and Related Product Manufacturing         | 15,604           | 15,867           | 263                | 1.7%        |
| 339        | Miscellaneous Manufacturing                         | 22,144           | 22,208           | 64                 | 0.3%        |
|            | <b>Service-Providing</b>                            | <b>4,450,824</b> | <b>4,495,543</b> | <b>44,719</b>      | <b>1.0%</b> |
|            | <b>Trade, Transportation and Utilities</b>          | <b>1,052,299</b> | <b>1,081,641</b> | <b>29,342</b>      | <b>2.8%</b> |
|            | Wholesale Trade                                     | 231,929          | 234,257          | 2,328              | 1.0%        |
| 423        | Merchant Wholesalers, Durable Goods                 | 141,020          | 142,781          | 1,761              | 1.2%        |
| 424        | Merchant Wholesalers, Nondurable Goods              | 74,078           | 74,623           | 545                | 0.7%        |
| 425        | Wholesale Electronic Markets and Agents and Brokers | 16,831           | 16,853           | 22                 | 0.1%        |
|            | Retail Trade  | 546,644          | 549,683          | 3,039              | 0.6%        |
| 441        | Motor Vehicle and Parts Dealers                     | 75,471           | 75,391           | -80                | -0.1%       |
| 442        | Furniture and Home Furnishings Stores               | 13,521           | 13,241           | -280               | -2.1%       |
| 443        | Electronics and Appliance Stores                    | 14,151           | 13,610           | -541               | -3.8%       |
| 444        | Building Mat./Garden Equip. and Supplies Dealers    | 55,661           | 58,409           | 2,748              | 4.9%        |
| 445        | Food and Beverage Stores                            | 96,922           | 95,631           | -1,291             | -1.3%       |
| 446        | Health and Personal Care Stores                     | 36,681           | 36,235           | -446               | -1.2%       |
| 447        | Gasoline Stations                                   | 34,869           | 34,792           | -77                | -0.2%       |
| 448        | Clothing and Clothing Accessories Stores            | 33,184           | 32,635           | -549               | -1.7%       |
| 451        | Sporting Goods, Hobby, Book, and Music Stores       | 17,638           | 17,569           | -69                | -0.4%       |
| 452        | General Merchandise Stores                          | 113,704          | 117,042          | 3,338              | 2.9%        |
| 453        | Miscellaneous Store Retailers                       | 27,079           | 26,977           | -102               | -0.4%       |
| 454        | Nonstore Retailers                                  | 27,763           | 28,151           | 388                | 1.4%        |
|            | Transportation and Warehousing                      | 256,014          | 280,842          | 24,828             | 9.7%        |
| 481        | Air Transportation                                  | 10,662           | 10,526           | -136               | -1.3%       |
| 484        | Truck Transportation                                | 71,118           | 72,230           | 1,112              | 1.6%        |
| 485        | Transit and Ground Passenger Transport              | 8,978            | 9,463            | 485                | 5.4%        |
| 488        | Support Activities for Transportation               | 22,592           | 23,120           | 528                | 2.3%        |
| 492        | Couriers and Messengers                             | 38,056           | 42,298           | 4,242              | 11.1%       |
| 493        | Warehousing and Storage                             | 95,423           | 113,846          | 18,423             | 19.3%       |

## Ohio Short-Term Industry Employment\* Projections First Quarter 2022 to First Quarter 2024

| NAICS Code | Industry Title  | 2022 Employment  | 2024 Projected   | Change 2022 - 2024 |              |
|------------|---|------------------|------------------|--------------------|--------------|
|            |   |                  |                  | Employment         | Percent      |
|            | Utilities   | 17,712           | 16,859           | -853               | -4.8%        |
|            | <b>Information</b>  | <b>66,110</b>    | <b>66,686</b>    | <b>576</b>         | <b>0.9%</b>  |
| 511        | Publishing Industries (except Internet)                   | 20,121           | 20,778           | 657                | 3.3%         |
| 515        | Broadcasting (except Internet)                            | 5,098            | 4,663            | -435               | -8.5%        |
| 517        | Telecommunications  | 20,276           | 20,406           | 130                | 0.6%         |
| 518        | Data Processing, Hosting, and Related Services            | 11,461           | 11,780           | 319                | 2.8%         |
|            | <b>Financial Activities</b>                               | <b>313,931</b>   | <b>315,503</b>   | <b>1,572</b>       | <b>0.5%</b>  |
|            | Finance and Insurance                                     | 250,441          | 251,949          | 1,508              | 0.6%         |
| 522        | Credit Intermediation and Related Activities              | 97,808           | 98,463           | 655                | 0.7%         |
| 523        | Securities, Commodity Contracts, and Investments          | 20,674           | 21,350           | 676                | 3.3%         |
| 524        | Insurance Carriers and Related Activities                 | 130,413          | 130,408          | -5                 | 0.0%         |
|            | Real Estate and Rental and Leasing                        | 63,490           | 63,554           | 64                 | 0.1%         |
| 531        | Real Estate   | 46,744           | 46,969           | 225                | 0.5%         |
| 532        | Rental and Leasing Services                               | 16,100           | 15,954           | -145               | -0.9%        |
|            | <b>Professional and Business Services</b>                 | <b>727,943</b>   | <b>740,739</b>   | <b>12,796</b>      | <b>1.8%</b>  |
|            | Professional, Scientific, and Technical Services          | 279,060          | 286,688          | 7,628              | 2.7%         |
| 5411       | Legal Services  | 31,199           | 31,154           | -45                | -0.1%        |
| 5412       | Accounting and Bookkeeping Services                       | 33,580           | 33,710           | 130                | 0.4%         |
| 5413       | Architectural, Engineering, and Related Services          | 43,332           | 43,660           | 328                | 0.8%         |
| 5414       | Specialized Design Services                               | 6,397            | 6,422            | 25                 | 0.4%         |
| 5415       | Computer Systems Design and Related Services              | 69,652           | 72,890           | 3,238              | 4.6%         |
| 5416       | Management, Scientific, and Technical Consulting Services | 36,412           | 37,270           | 858                | 2.4%         |
| 5417       | Scientific Research and Development Services              | 20,870           | 23,574           | 2,704              | 13.0%        |
| 5418       | Advertising, Public Relations, and Related Services       | 11,910           | 11,725           | -185               | -1.6%        |
| 5419       | Other Professional, Scientific, and Technical Services    | 25,708           | 26,283           | 575                | 2.2%         |
|            | Management of Companies and Enterprises                   | 137,525          | 140,395          | 2,870              | 2.1%         |
|            | Administrative and Waste Services                         | 311,358          | 313,656          | 2,298              | 0.7%         |
| 561        | Administrative and Support Services                       | 293,298          | 295,184          | 1,886              | 0.6%         |
| 562        | Waste Management and Remediation Service                  | 18,060           | 18,472           | 412                | 2.3%         |
|            | <b>Education and Health Services</b>                      | <b>1,230,755</b> | <b>1,227,863</b> | <b>-2,892</b>      | <b>-0.2%</b> |
|            | Educational Services                                      | 424,877          | 422,895          | -1,982             | -0.5%        |
| 6111       | Elementary and Secondary Schools                          | 278,892          | 277,861          | -1,031             | -0.4%        |
| 6112       | Junior Colleges   | 16,648           | 16,306           | -342               | -2.1%        |
| 6113       | Colleges, Universities, and Professional Schools          | 86,709           | 84,491           | -2,218             | -2.6%        |
| 6116       | Other Schools and Instruction                             | 11,963           | 12,429           | 466                | 3.9%         |
| 6117       | Educational Support Services                              | 25,551           | 26,594           | 1,043              | 4.1%         |
|            | Health Care and Social Assistance                         | 805,878          | 804,968          | -910               | -0.1%        |
| 621        | Ambulatory Health Care Services                           | 275,443          | 278,436          | 2,993              | 1.1%         |
| 622        | Hospitals   | 277,701          | 278,232          | 531                | 0.2%         |
| 623        | Nursing and Residential Care Facilities                   | 141,393          | 135,925          | -5,468             | -3.9%        |
| 624        | Social Assistance   | 111,341          | 112,375          | 1,034              | 0.9%         |
|            | <b>Leisure and Hospitality</b>                            | <b>503,287</b>   | <b>509,678</b>   | <b>6,391</b>       | <b>1.3%</b>  |
|            | Arts, Entertainment, and Recreation                       | 61,332           | 65,342           | 4,010              | 6.5%         |
| 711        | Performing Arts, Spectator Sports, and Related Industries | 11,970           | 12,349           | 379                | 3.2%         |
| 712        | Museums, Historical Sites, and Similar Institution        | 5,766            | 5,800            | 34                 | 0.6%         |
| 713        | Amusement, Gambling, and Recreation Industries            | 43,596           | 47,193           | 3,597              | 8.3%         |
|            | Accommodation and Food Services                           | 441,955          | 444,336          | 2,381              | 0.5%         |
| 721        | Accommodation, including Hotels and Motels                | 29,333           | 29,877           | 544                | 1.9%         |
| 722        | Food Services and Drinking Places                         | 412,622          | 414,459          | 1,837              | 0.4%         |

## Ohio Short-Term Industry Employment\* Projections

### First Quarter 2022 to First Quarter 2024

| NAICS Code | Industry Title   | 2022 Employment | 2024 Projected | Change 2022 - 2024 |              |
|------------|--|-----------------|----------------|--------------------|--------------|
|            |  |                 |                | Employment         | Percent      |
|            | <b>Other Services (except Government)</b>                              | <b>217,031</b>  | <b>215,860</b> | <b>-1,171</b>      | <b>-0.5%</b> |
| 811        | Repair and Maintenance   | 50,692          | 51,044         | 352                | 0.7%         |
| 812        | Personal and Laundry Services  | 50,410          | 50,384         | -26                | -0.1%        |
| 813        | Religious, Grantmaking, Civic, Professional, and Similar Organizations | 100,864         | 99,556         | -1,308             | -1.3%        |
| 814        | Private Household  | 15,065          | 14,876         | -189               | -1.3%        |
|            | <b>Government</b>  | <b>339,468</b>  | <b>337,573</b> | <b>-1,895</b>      | <b>-0.6%</b> |
| 4911       | Postal Service   | 22,743          | 22,504         | -239               | -1.1%        |
| 9991       | Federal Government, excluding Post Office                              | 56,716          | 57,041         | 325                | 0.6%         |
| 9992       | State Government, excluding Education and Hospitals                    | 53,731          | 53,715         | -16                | 0.0%         |
| 9993       | Local Government, excluding Education and Hospitals                    | 206,278         | 204,313        | -1,965             | -1.0%        |
|            | <b>Self-Employed and Unpaid Family Workers</b>                         | <b>282,458</b>  | <b>283,788</b> | <b>1,330</b>       | <b>0.5%</b>  |

\* Industries with at least 5,000 employment.

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, April 2023.

**Ohio Occupational Employment Projections by Major Occupational Group**  
**First Quarter 2022 to First Quarter 2024**  
**Breakdown of Annual Openings**

| SOC Code | Occupational Title   | Employment       |                  | Change in Employment 2022- 2024 | Annual Openings |                |                |                |
|----------|--|------------------|------------------|---------------------------------|-----------------|----------------|----------------|----------------|
|          |  | 2022 Employment  | 2024 Projected   |                                 | Change [1]      | Exits [2]      | Transfers [3]  | Total          |
|          | <b>Total, All Occupations</b>                              | <b>5,732,497</b> | <b>5,788,697</b> | <b>56,200</b>                   | <b>28,100</b>   | <b>278,242</b> | <b>384,106</b> | <b>690,448</b> |
| 11-0000  | Management Occupations                                     | 405,647          | 411,942          | 6,295                           | 3,148           | 14,488         | 21,104         | 38,740         |
| 13-0000  | Business and Financial Operations Occupations              | 344,325          | 350,278          | 5,953                           | 2,976           | 10,478         | 20,103         | 33,557         |
| 15-0000  | Computer and Mathematical Occupations                      | 171,873          | 175,899          | 4,026                           | 2,013           | 3,795          | 8,388          | 14,196         |
| 17-0000  | Architecture and Engineering Occupations                   | 92,093           | 94,022           | 1,929                           | 964             | 2,542          | 4,194          | 7,700          |
| 19-0000  | Life, Physical, and Social Science Occupations             | 37,524           | 38,435           | 911                             | 456             | 866            | 2,684          | 4,006          |
| 21-0000  | Community and Social Service Occupations                   | 103,715          | 104,117          | 402                             | 201             | 4,134          | 5,832          | 10,167         |
| 23-0000  | Legal Occupations  | 35,442           | 35,840           | 398                             | 199             | 1,109          | 1,312          | 2,620          |
| 25-0000  | Education, Training, and Library Occupations               | 315,060          | 314,821          | -239                            | -120            | 13,520         | 13,909         | 27,309         |
| 27-0000  | Arts, Design, Entertainment, Sports, and Media Occupations | 81,052           | 81,072           | 20                              | 10              | 3,497          | 5,002          | 8,509          |
| 29-0000  | Healthcare Practitioners and Technical Occupations         | 376,929          | 378,042          | 1,113                           | 556             | 11,564         | 10,929         | 23,049         |
| 31-0000  | Healthcare Support Occupations                             | 224,201          | 224,087          | -114                            | -57             | 15,252         | 18,125         | 33,320         |
| 33-0000  | Protective Service Occupations                             | 113,933          | 113,792          | -141                            | -70             | 5,696          | 7,086          | 12,712         |
| 35-0000  | Food Preparation and Serving Related Occupations           | 446,435          | 448,073          | 1,638                           | 819             | 37,902         | 44,742         | 83,463         |
| 37-0000  | Building and Grounds Cleaning and Maintenance Occupations  | 170,688          | 174,365          | 3,677                           | 1,838           | 10,757         | 12,518         | 25,113         |
| 39-0000  | Personal Care and Service Occupations                      | 120,063          | 120,731          | 668                             | 334             | 8,396          | 12,002         | 20,732         |
| 41-0000  | Sales and Related Occupations                              | 517,340          | 519,665          | 2,325                           | 1,162           | 30,187         | 39,199         | 70,548         |
| 43-0000  | Office and Administrative Support Occupations              | 707,870          | 702,968          | -4,902                          | -2,451          | 38,260         | 47,378         | 83,187         |
| 45-0000  | Farming, Fishing, and Forestry Occupations                 | 15,887           | 16,078           | 191                             | 96              | 820            | 1,726          | 2,642          |
| 47-0000  | Construction and Extraction Occupations                    | 194,406          | 200,552          | 6,146                           | 3,073           | 6,873          | 12,476         | 22,422         |
| 49-0000  | Installation, Maintenance, and Repair Occupations          | 217,166          | 220,083          | 2,917                           | 1,458           | 8,024          | 12,946         | 22,428         |
| 51-0000  | Production Occupations                                     | 495,168          | 493,220          | -1,948                          | -974            | 21,406         | 35,058         | 55,490         |
| 53-0000  | Transportation and Material Moving Occupations             | 545,680          | 570,615          | 24,935                          | 12,468          | 28,678         | 47,394         | 88,540         |

[1] Numeric change measures the projected annual number of job gains or losses in an occupation for the projection period.

[2] Exits are the projected number of workers leaving an occupation and exiting the labor force entirely.

[3] Transfers are the projected number of workers leaving an occupation and transferring to a different occupation.

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, April 2023.

## Ohio's Fastest Growing Occupations\*

### First Quarter 2022 to First Quarter 2024

| SOC Code <sup>1</sup> | Occupational Title   | Percent Change | Total Annual Openings | Median Wage**<br>May 2022 |
|-----------------------|--|----------------|-----------------------|---------------------------|
| 15-2041               | Statisticians  | 9.6%           | 76                    | \$38.48                   |
| 53-7051               | Industrial Truck and Tractor Operators                             | 9.4%           | 6,240                 | \$19.52                   |
| 53-7063               | Machine Feeders and Offbearers                                     | 8.3%           | 487                   | \$21.53                   |
| 29-1171               | Nurse Practitioners  | 8.0%           | 985                   | \$54.35                   |
| 15-1212               | Information Security Analysts                                      | 7.2%           | 478                   | \$49.74                   |
| 53-3054               | Taxi Drivers   | 7.2%           | 561                   | \$12.62                   |
| 17-3021               | Aerospace Engineering and Operations Technologists and Technicians | 7.0%           | 134                   | \$34.69                   |
| 13-1081               | Logisticians   | 6.6%           | 972                   | \$37.61                   |
| 39-3091               | Amusement and Recreation Attendants                                | 6.3%           | 2,793                 | \$10.81                   |
| 47-2071               | Paving, Surfacing, and Tamping Equipment Operators                 | 6.2%           | 141                   | \$31.09                   |
| 47-2181               | Roofers  | 6.2%           | 659                   | \$22.79                   |
| 53-3033               | Light Truck Drivers  | 6.2%           | 5,298                 | \$18.21                   |
| 51-9195               | Molders, Shapers, and Casters, Except Metal and Plastic            | 5.9%           | 433                   | \$18.44                   |
| 47-2121               | Glaziers   | 5.7%           | 230                   | \$24.70                   |
| 47-2221               | Structural Iron and Steel Workers                                  | 5.7%           | 399                   | \$31.85                   |
| 53-7065               | Stockers and Order Fillers   | 5.7%           | 22,531                | \$16.60                   |
| 15-2011               | Actuaries  | 5.4%           | 80                    | \$49.22                   |
| 11-3071               | Transportation, Storage, and Distribution Managers                 | 5.3%           | 737                   | \$40.94                   |
| 53-7011               | Conveyor Operators and Tenders                                     | 5.3%           | 280                   | \$16.74                   |
| 35-2014               | Cooks, Restaurant  | 5.2%           | 9,137                 | \$14.19                   |
| 51-9162               | Computer Numerically Controlled Tool Programmers                   | 5.2%           | 263                   | \$28.45                   |
| 53-7062               | Laborers and Freight, Stock, and Material Movers, Hand             | 5.2%           | 18,913                | \$16.94                   |
| 15-2031               | Operations Research Analysts                                       | 5.0%           | 409                   | \$41.57                   |
| 11-9021               | Construction Managers  | 4.8%           | 1,243                 | \$44.04                   |
| 17-2041               | Chemical Engineers   | 4.8%           | 87                    | \$47.68                   |
| 39-9031               | Exercise Trainers and Group Fitness Instructors                    | 4.8%           | 1,806                 | \$16.87                   |
| 13-2061               | Financial Examiners  | 4.7%           | 276                   | \$30.67                   |
| 47-2051               | Cement Masons and Concrete Finishers                               | 4.7%           | 446                   | \$23.82                   |
| 47-2061               | Construction Laborers  | 4.6%           | 5,006                 | \$22.86                   |
| 29-1071               | Physician Assistants   | 4.5%           | 287                   | \$54.93                   |

<sup>1</sup> Occupational codes based on SOC 2010 coding structure. Detailed information - <http://www.bls.gov/soc/>

\* Based on occupations with at least 500 workers.

\*\* Wage estimates are based on Ohio's OEWS surveys.

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, May 2023.

## Occupations in Ohio with the Most Annual Openings First Quarter 2022 to First Quarter 2024

| SOC Code <sup>1</sup> | Occupational Title   | Total Annual Openings | Median Wage*<br>May 2022 |
|-----------------------|--|-----------------------|--------------------------|
| 35-3023               | Fast Food and Counter Workers  | 26,740                | \$11.44                  |
| 53-7065               | Stockers and Order Fillers   | 22,531                | \$16.60                  |
| 41-2011               | Cashiers   | 21,374                | \$12.21                  |
| 41-2031               | Retail Salespersons  | 19,303                | \$13.93                  |
| 53-7062               | Laborers and Freight, Stock, and Material Movers, Hand                                       | 18,913                | \$16.94                  |
| 43-4051               | Customer Service Representatives   | 16,306                | \$18.30                  |
| 31-1120               | Home Health and Personal Care Aides  | 15,104                | \$13.19                  |
| 35-3031               | Waiters and Waitresses   | 13,822                | \$11.25                  |
| 53-3032               | Heavy and Tractor-Trailer Truck Drivers  | 12,918                | \$23.95                  |
| 37-2011               | Janitors and Cleaners, Except Maids and Housekeeping Cleaners                                | 11,464                | \$14.39                  |
| 43-9061               | Office Clerks, General   | 11,052                | \$18.29                  |
| 51-2090               | Miscellaneous Assemblers and Fabricators   | 9,592                 | \$18.17                  |
| 11-9013               | Farmers, Ranchers, and Other Agricultural Managers   | 9,209                 | \$31.02                  |
| 35-2014               | Cooks, Restaurant  | 9,137                 | \$14.19                  |
| 11-1021               | General and Operations Managers  | 8,758                 | \$42.29                  |
| 43-3031               | Bookkeeping, Accounting, and Auditing Clerks   | 8,120                 | \$21.23                  |
| 31-1131               | Nursing Assistants   | 7,756                 | \$16.82                  |
| 41-4012               | Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products | 7,596                 | \$31.29                  |
| 29-1141               | Registered Nurses  | 7,287                 | \$36.93                  |
| 35-1012               | First-Line Supervisors of Food Preparation and Serving Workers                               | 6,956                 | \$16.80                  |
| 43-6014               | Secretaries and Administrative Assistants, Except Legal, Medical, and Executive              | 6,826                 | \$18.61                  |
| 49-9071               | Maintenance and Repair Workers, General  | 6,637                 | \$22.20                  |
| 37-3011               | Landscaping and Groundskeeping Workers   | 6,602                 | \$16.61                  |
| 53-7051               | Industrial Truck and Tractor Operators   | 6,240                 | \$19.52                  |
| 41-1011               | First-Line Supervisors of Retail Sales Workers   | 5,626                 | \$19.84                  |
| 25-9045               | Teaching Assistants, Except Postsecondary  | 5,454                 | \$30,940 <sup>+</sup>    |
| 53-3033               | Light Truck Drivers  | 5,298                 | \$18.21                  |
| 43-1011               | First-Line Supervisors of Office and Administrative Support Workers                          | 5,167                 | \$28.64                  |
| 43-4171               | Receptionists and Information Clerks   | 5,150                 | \$14.79                  |
| 47-2061               | Construction Laborers  | 5,006                 | \$22.86                  |

<sup>1</sup> Occupational codes based on SOC 2010 coding structure. Detailed information - <http://www.bls.gov/soc/>

\* Wage estimates are based on Ohio's OEWS surveys.

<sup>+</sup> Statewide annual wage. Certain occupations report wages at the annual level - for elementary and secondary teachers this typically reflects the 9 1/2 month school year.

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, May 2023.

## Ohio Occupational Employment\* Projections Report, 2022-2024

| SOC Code <sup>1</sup> | Occupational Title**  | Employment       |                  | Change in Employment |             | Annual Openings |                |                |                | Median Wage***<br>May 2022 |
|-----------------------|---|------------------|------------------|----------------------|-------------|-----------------|----------------|----------------|----------------|----------------------------|
|                       |   | 2022 Annual      | 2024 Projected   | 2022-2024            | Percent     | Growth          | Exits          | Transfers      | Total          |                            |
| <b>00-0000</b>        | <b>Total, All Occupations</b>                                     | <b>5,732,497</b> | <b>5,788,697</b> | <b>56,200</b>        | <b>1.0%</b> | <b>28,100</b>   | <b>278,242</b> | <b>384,106</b> | <b>690,448</b> | <b>\$21.52</b>             |
| <b>11-0000</b>        | <b>Management Occupations</b>                                     | <b>405,647</b>   | <b>411,942</b>   | <b>6,295</b>         | <b>1.6%</b> | <b>3,148</b>    | <b>14,488</b>  | <b>21,104</b>  | <b>38,740</b>  | <b>\$47.32</b>             |
| 11-1011               | Chief Executives  | 6,164            | 6,083            | -81                  | -1.3%       | -40             | 190            | 253            | 403            | \$88.06                    |
| 11-1021               | General and Operations Managers                                   | 92,164           | 93,580           | 1,416                | 1.5%        | 708             | 2,134          | 5,916          | 8,758          | \$42.29                    |
| 11-1031               | Legislators   | 3,228            | 3,213            | -15                  | -0.5%       | -8              | 98             | 154            | 244            | \$44,300 **                |
| 11-2021               | Marketing Managers  | 6,665            | 6,806            | 141                  | 2.1%        | 70              | 153            | 431            | 654            | \$62.83                    |
| 11-2022               | Sales Managers  | 15,017           | 15,340           | 323                  | 2.2%        | 162             | 347            | 898            | 1,407          | \$61.56                    |
| 11-2032               | Public Relations Managers   | 1,023            | 1,020            | -3                   | -0.3%       | -2              | 28             | 56             | 82             | \$60.09                    |
| 11-2033               | Fundraising Managers  | 686              | 684              | -2                   | -0.3%       | -1              | 18             | 38             | 55             | \$43.65                    |
| 11-3012               | Administrative Services Managers                                  | 9,173            | 9,242            | 69                   | 0.8%        | 34              | 302            | 458            | 794            | \$39.18                    |
| 11-3013               | Facilities Managers   | 3,981            | 4,060            | 79                   | 2.0%        | 40              | 117            | 209            | 366            | \$43.09                    |
| 11-3021               | Computer and Information Systems Managers                         | 13,471           | 13,795           | 324                  | 2.4%        | 162             | 252            | 746            | 1,160          | \$66.45                    |
| 11-3031               | Financial Managers  | 22,882           | 23,701           | 819                  | 3.6%        | 410             | 571            | 1,163          | 2,144          | \$62.18                    |
| 11-3051               | Industrial Production Managers                                    | 12,317           | 12,476           | 159                  | 1.3%        | 80              | 278            | 602            | 960            | \$47.75                    |
| 11-3061               | Purchasing Managers   | 2,153            | 2,201            | 48                   | 2.2%        | 24              | 60             | 118            | 202            | \$60.37                    |
| 11-3071               | Transportation, Storage, and Distribution Managers                | 6,667            | 7,020            | 353                  | 5.3%        | 176             | 162            | 399            | 737            | \$40.94                    |
| 11-3121               | Human Resources Managers  | 4,497            | 4,575            | 78                   | 1.7%        | 39              | 132            | 245            | 416            | \$57.72                    |
| 11-3131               | Training and Development Managers                                 | 845              | 866              | 21                   | 2.5%        | 10              | 20             | 54             | 84             | \$51.47                    |
| 11-9013               | Farmers, Ranchers, and Other Agricultural Managers                | 83,627           | 84,368           | 741                  | 0.9%        | 370             | 5,862          | 2,977          | 9,209          | \$31.02                    |
| 11-9021               | Construction Managers   | 12,181           | 12,765           | 584                  | 4.8%        | 292             | 291            | 660            | 1,243          | \$44.04                    |
| 11-9031               | Education and Childcare Administrators, Preschool and Daycare     | 3,042            | 3,047            | 5                    | 0.2%        | 2               | 84             | 140            | 226            | \$23.11                    |
| 11-9032               | Education Administrators, Kindergarten through Secondary          | 10,065           | 10,068           | 3                    | 0.0%        | 2               | 279            | 465            | 746            | \$100,260 **               |
| 11-9033               | Education Administrators, Postsecondary                           | 4,266            | 4,165            | -101                 | -2.4%       | -50             | 117            | 194            | 261            | \$39.46                    |
| 11-9039               | Education Administrators, All Other                               | 1,268            | 1,293            | 25                   | 2.0%        | 12              | 36             | 59             | 107            | \$38.52                    |
| 11-9041               | Architectural and Engineering Managers                            | 6,037            | 6,168            | 131                  | 2.2%        | 66              | 124            | 306            | 496            | \$67.13                    |
| 11-9051               | Food Service Managers   | 13,917           | 13,981           | 64                   | 0.5%        | 32              | 502            | 1,185          | 1,719          | \$27.39                    |
| 11-9072               | Entertainment And Recreation Managers, except Gambling            | 531              | 540              | 9                    | 1.7%        | 4               | 20             | 39             | 63             | \$28.08                    |
| 11-9081               | Lodging Managers  | 1,678            | 1,707            | 29                   | 1.7%        | 14              | 70             | 116            | 200            | \$24.35                    |
| 11-9111               | Medical and Health Services Managers                              | 18,000           | 18,649           | 649                  | 3.6%        | 324             | 512            | 922            | 1,758          | \$48.03                    |
| 11-9121               | Natural Sciences Managers   | 974              | 1,000            | 26                   | 2.7%        | 13              | 24             | 54             | 91             | \$56.80                    |
| 11-9131               | Postmasters and Mail Superintendents                              | 458              | 454              | -4                   | -0.9%       | -2              | 14             | 22             | 34             | \$39.85                    |
| 11-9141               | Property, Real Estate, and Community Association Managers         | 16,142           | 16,254           | 112                  | 0.7%        | 56              | 682            | 625            | 1,363          | \$23.97                    |
| 11-9151               | Social and Community Service Managers                             | 5,242            | 5,240            | -2                   | 0.0%        | -1              | 174            | 280            | 453            | \$30.97                    |
| 11-9161               | Emergency Management Directors                                    | 323              | 321              | -2                   | -0.6%       | -1              | 11             | 16             | 26             | \$38.00                    |
| 11-9171               | Funeral Home Managers   | 1,294            | 1,275            | -19                  | -1.5%       | -10             | 39             | 62             | 91             | \$31.31                    |
| 11-9179               | Personal Service Managers, All Other                              | 323              | 320              | -3                   | -0.9%       | -2              | 10             | 16             | 24             | \$26.97 +                  |
| 11-9199               | Managers, All Other   | 24,330           | 24,650           | 320                  | 1.3%        | 160             | 748            | 1,168          | 2,076          | \$56.66                    |
| <b>13-0000</b>        | <b>Business and Financial Operations Occupations</b>              | <b>344,325</b>   | <b>350,278</b>   | <b>5,953</b>         | <b>1.7%</b> | <b>2,976</b>    | <b>10,478</b>  | <b>20,103</b>  | <b>33,557</b>  | <b>\$34.32</b>             |
| 13-1011               | Agents and Business Managers of Artists, Performers, and Athletes | 114              | 119              | 5                    | 4.4%        | 2               | 4              | 8              | 14             | \$39.68 +                  |
| 13-1020               | Buyers and Purchasing Agents                                      | 19,701           | 19,631           | -70                  | -0.4%       | -35             | 729            | 1,232          | 1,926          | \$31.17                    |
| 13-1031               | Claims Adjusters, Examiners, and Investigators                    | 8,910            | 8,777            | -133                 | -1.5%       | -66             | 242            | 458            | 634            | \$30.76                    |
| 13-1032               | Insurance Appraisers, Auto Damage                                 | 480              | 478              | -2                   | -0.4%       | -1              | 13             | 25             | 37             | \$32.75                    |
| 13-1041               | Compliance Officers   | 9,578            | 9,687            | 109                  | 1.1%        | 54              | 286            | 479            | 819            | \$31.66                    |
| 13-1051               | Cost Estimators   | 7,818            | 7,988            | 170                  | 2.2%        | 85              | 238            | 473            | 796            | \$32.94                    |
| 13-1071               | Human Resources Specialists                                       | 35,835           | 36,460           | 625                  | 1.7%        | 312             | 1,076          | 2,310          | 3,698          | \$30.09                    |
| 13-1075               | Labor Relations Specialists                                       | 3,169            | 3,032            | -137                 | -4.3%       | -68             | 92             | 198            | 222            | \$37.95                    |
| 13-1081               | Logisticians  | 7,897            | 8,419            | 522                  | 6.6%        | 261             | 219            | 492            | 972            | \$37.61                    |
| 13-1082               | Project Management Specialists                                    | 32,652           | 33,380           | 728                  | 2.2%        | 364             | 758            | 1,884          | 3,006          | \$40.10                    |

## Ohio Occupational Employment\* Projections Report, 2022-2024

| SOC Code <sup>1</sup> | Occupational Title**                                 | Employment     |                | Change in Employment |             | Annual Openings |              |              |               | Median Wage***<br>May 2022 |
|-----------------------|--|----------------|----------------|----------------------|-------------|-----------------|--------------|--------------|---------------|----------------------------|
|                       |  | 2022 Annual    | 2024 Projected | 2022-2024            | Percent     | Growth          | Exits        | Transfers    | Total         |                            |
| 13-1111               | Management Analysts                                  | 29,298         | 30,000         | 702                  | 2.4%        | 351             | 1,064        | 1,624        | 3,039         | \$39.73                    |
| 13-1121               | Meeting, Convention, and Event Planners              | 3,722          | 3,795          | 73                   | 2.0%        | 36              | 136          | 250          | 422           | \$22.83                    |
| 13-1131               | Fundraisers  | 5,053          | 5,067          | 14                   | 0.3%        | 7               | 181          | 281          | 469           | \$23.49                    |
| 13-1141               | Compensation, Benefits, and Job Analysis Specialists | 2,913          | 3,005          | 92                   | 3.2%        | 46              | 93           | 154          | 293           | \$30.91                    |
| 13-1151               | Training and Development Specialists                 | 15,391         | 15,663         | 272                  | 1.8%        | 136             | 490          | 923          | 1,549         | \$28.94                    |
| 13-1161               | Market Research Analysts and Marketing Specialists   | 30,474         | 31,551         | 1,077                | 3.5%        | 538             | 897          | 2,132        | 3,567         | \$30.29                    |
| 13-2011               | Accountants and Auditors                             | 50,052         | 50,775         | 723                  | 1.4%        | 362             | 1,536        | 2,801        | 4,699         | \$34.97                    |
| 13-2020               | Property Appraisers and Assessors                    | 2,216          | 2,236          | 20                   | 0.9%        | 10              | 103          | 84           | 197           | \$30.49                    |
| 13-2031               | Budget Analysts                                      | 833            | 848            | 15                   | 1.8%        | 8               | 24           | 40           | 72            | \$38.86                    |
| 13-2041               | Credit Analysts                                      | 2,684          | 2,694          | 10                   | 0.4%        | 5               | 58           | 159          | 222           | \$37.05                    |
| 13-2051               | Financial and Investment Analysts                    | 8,527          | 8,673          | 146                  | 1.7%        | 73              | 179          | 450          | 702           | \$38.51                    |
| 13-2052               | Personal Financial Advisors                          | 10,465         | 10,872         | 407                  | 3.9%        | 204             | 294          | 466          | 964           | \$38.06                    |
| 13-2053               | Insurance Underwriters                               | 3,407          | 3,335          | -72                  | -2.1%       | -36             | 91           | 161          | 216           | \$36.86                    |
| 13-2054               | Financial Risk Specialists                           | 1,749          | 1,769          | 20                   | 1.1%        | 10              | 48           | 91           | 149           | \$48.15                    |
| 13-2061               | Financial Examiners                                  | 2,657          | 2,782          | 125                  | 4.7%        | 62              | 81           | 133          | 276           | \$30.67                    |
| 13-2071               | Credit Counselors                                    | 1,123          | 1,130          | 7                    | 0.6%        | 4               | 28           | 59           | 91            | \$22.62                    |
| 13-2072               | Loan Officers  | 12,626         | 12,813         | 187                  | 1.5%        | 94              | 322          | 668          | 1,084         | \$29.95                    |
| 13-2081               | Tax Examiners and Collectors, and Revenue Agents     | 1,287          | 1,282          | -5                   | -0.4%       | -2              | 52           | 61           | 111           | \$28.69                    |
| 13-2082               | Tax Preparers  | 3,075          | 3,112          | 37                   | 1.2%        | 18              | 174          | 179          | 371           | \$20.98                    |
| 13-2099               | Financial Specialists, All Other                     | 4,064          | 4,103          | 39                   | 1.0%        | 20              | 113          | 210          | 343           | \$40.69                    |
| <b>15-0000</b>        | <b>Computer and Mathematical Occupations</b>         | <b>171,873</b> | <b>175,899</b> | <b>4,026</b>         | <b>2.3%</b> | <b>2,013</b>    | <b>3,795</b> | <b>8,388</b> | <b>14,196</b> | <b>\$41.61</b>             |
| 15-1211               | Computer Systems Analysts                            | 23,759         | 24,113         | 354                  | 1.5%        | 177             | 590          | 1,080        | 1,847         | \$48.54                    |
| 15-1212               | Information Security Analysts                        | 4,294          | 4,605          | 311                  | 7.2%        | 156             | 102          | 220          | 478           | \$49.74                    |
| 15-1221               | Computer and Information Research Scientists         | 269            | 282            | 13                   | 4.8%        | 6               | 6            | 12           | 24            | \$58.78                    |
| 15-1231               | Computer Network Support Specialists                 | 8,191          | 8,332          | 141                  | 1.7%        | 70              | 194          | 440          | 704           | \$30.40                    |
| 15-1232               | Computer User Support Specialists                    | 28,580         | 29,134         | 554                  | 1.9%        | 277             | 678          | 1,536        | 2,491         | \$23.48                    |
| 15-1241               | Computer Network Architects                          | 4,918          | 5,003          | 85                   | 1.7%        | 42              | 83           | 225          | 350           | \$54.92                    |
| 15-1242               | Database Administrators                              | 2,888          | 2,956          | 68                   | 2.4%        | 34              | 70           | 128          | 232           | \$42.67                    |
| 15-1243               | Database Architects                                  | 1,585          | 1,624          | 39                   | 2.5%        | 20              | 38           | 70           | 128           | \$57.82                    |
| 15-1244               | Network and Computer Systems Administrators          | 15,588         | 15,707         | 119                  | 0.8%        | 60              | 332          | 718          | 1,110         | \$43.33                    |
| 15-1251               | Computer Programmers                                 | 3,926          | 3,903          | -23                  | -0.6%       | -12             | 93           | 175          | 256           | \$41.22                    |
| 15-1252               | Software Developers                                  | 48,735         | 50,147         | 1,412                | 2.9%        | 706             | 874          | 2,387        | 3,967         | \$50.24                    |
| 15-1253               | Software Quality Assurance Analysts and Testers      | 6,148          | 6,305          | 157                  | 2.6%        | 78              | 146          | 298          | 522           | \$42.13                    |
| 15-1254               | Web Developers                                       | 2,394          | 2,495          | 101                  | 4.2%        | 50              | 53           | 128          | 231           | \$38.17                    |
| 15-1255               | Web and Digital Interface Designers                  | 3,820          | 3,887          | 67                   | 1.8%        | 34              | 117          | 204          | 355           | \$37.40                    |
| 15-1299               | Computer Occupations, All Other                      | 7,149          | 7,361          | 212                  | 3.0%        | 106             | 173          | 346          | 625           | \$47.77                    |
| 15-2011               | Actuaries  | 936            | 987            | 51                   | 5.4%        | 26              | 18           | 36           | 80            | \$49.22                    |
| 15-2031               | Operations Research Analysts                         | 4,327          | 4,542          | 215                  | 5.0%        | 108             | 119          | 182          | 409           | \$41.57                    |
| 15-2041               | Statisticians  | 628            | 688            | 60                   | 9.6%        | 30              | 16           | 30           | 76            | \$38.48                    |
| 15-2051               | Data Scientists                                      | 3,481          | 3,567          | 86                   | 2.5%        | 43              | 86           | 164          | 293           | \$42.77                    |
| <b>17-0000</b>        | <b>Architecture and Engineering Occupations</b>      | <b>92,093</b>  | <b>94,022</b>  | <b>1,929</b>         | <b>2.1%</b> | <b>964</b>      | <b>2,542</b> | <b>4,194</b> | <b>7,700</b>  | <b>\$38.65</b>             |
| 17-1011               | Architects, except Landscape and Naval               | 2,899          | 2,930          | 31                   | 1.1%        | 16              | 90           | 111          | 217           | \$38.02                    |
| 17-1012               | Landscape Architects                                 | 324            | 330            | 6                    | 1.9%        | 3               | 12           | 13           | 28            | \$27.64                    |
| 17-1021               | Cartographers and Photogrammetrists                  | 275            | 274            | -1                   | -0.4%       | 0               | 9            | 12           | 21            | \$36.09                    |
| 17-1022               | Surveyors  | 1,063          | 1,072          | 9                    | 0.8%        | 4               | 34           | 45           | 83            | \$29.00                    |
| 17-2011               | Aerospace Engineers                                  | 3,374          | 3,505          | 131                  | 3.9%        | 66              | 76           | 118          | 260           | \$59.02                    |
| 17-2031               | Bioengineers and Biomedical Engineers                | 430            | 442            | 12                   | 2.8%        | 6               | 6            | 18           | 30            | \$44.83                    |
| 17-2041               | Chemical Engineers                                   | 1,079          | 1,131          | 52                   | 4.8%        | 26              | 23           | 38           | 87            | \$47.68                    |

## Ohio Occupational Employment\* Projections Report, 2022-2024

| SOC Code <sup>1</sup> | Occupational Title**   | Employment    |                | Change in Employment |             | Annual Openings |            |              |              | Median Wage***<br>May 2022 |
|-----------------------|--|---------------|----------------|----------------------|-------------|-----------------|------------|--------------|--------------|----------------------------|
|                       |  | 2022 Annual   | 2024 Projected | 2022-2024            | Percent     | Growth          | Exits      | Transfers    | Total        |                            |
| 17-2051               | Civil Engineers  | 7,600         | 7,751          | 151                  | 2.0%        | 76              | 166        | 346          | 588          | \$38.98                    |
| 17-2061               | Computer Hardware Engineers  | 568           | 577            | 9                    | 1.6%        | 4               | 12         | 24           | 40           | \$41.86                    |
| 17-2071               | Electrical Engineers   | 6,111         | 6,226          | 115                  | 1.9%        | 58              | 156        | 225          | 439          | \$46.85                    |
| 17-2072               | Electronics Engineers, except Computer                                     | 3,877         | 3,982          | 105                  | 2.7%        | 52              | 100        | 144          | 296          | \$46.54                    |
| 17-2081               | Environmental Engineers  | 1,527         | 1,552          | 25                   | 1.6%        | 12              | 46         | 64           | 122          | \$56.57                    |
| 17-2111               | Health and Safety Engineers, except Mining Safety Engineers and Inspectors | 477           | 484            | 7                    | 1.5%        | 4               | 12         | 18           | 34           | \$46.39                    |
| 17-2112               | Industrial Engineers   | 16,028        | 16,507         | 479                  | 3.0%        | 240             | 382        | 612          | 1,234        | \$41.88                    |
| 17-2131               | Materials Engineers  | 1,909         | 1,961          | 52                   | 2.7%        | 26              | 50         | 82           | 158          | \$44.38                    |
| 17-2141               | Mechanical Engineers   | 14,335        | 14,705         | 370                  | 2.6%        | 185             | 298        | 572          | 1,055        | \$39.94                    |
| 17-2151               | Mining and Geological Engineers, Including Mining Safety Engineers         | 167           | 170            | 3                    | 1.8%        | 2               | 4          | 8            | 14           | \$40.83                    |
| 17-2161               | Nuclear Engineers  | 323           | 293            | -30                  | -9.3%       | -15             | 8          | 12           | 5            | \$52.42                    |
| 17-2171               | Petroleum Engineers  | 107           | 110            | 3                    | 2.8%        | 2               | 2          | 4            | 8            | \$48.66                    |
| 17-2199               | Engineers, All Other   | 6,619         | 6,729          | 110                  | 1.7%        | 55              | 161        | 268          | 484          | \$49.29                    |
| 17-3011               | Architectural and Civil Drafters   | 3,732         | 3,763          | 31                   | 0.8%        | 16              | 186        | 240          | 442          | \$28.71                    |
| 17-3012               | Electrical and Electronics Drafters  | 497           | 506            | 9                    | 1.8%        | 4               | 16         | 30           | 50           | \$30.12                    |
| 17-3013               | Mechanical Drafters  | 1,983         | 1,979          | -4                   | -0.2%       | -2              | 66         | 116          | 180          | \$29.37                    |
| 17-3019               | Drafters, All Other  | 549           | 551            | 2                    | 0.4%        | 1               | 18         | 32           | 51           | \$25.18                    |
| 17-3021               | Aerospace Engineering and Operations Technologists and Technicians         | 983           | 1,052          | 69                   | 7.0%        | 34              | 36         | 64           | 134          | \$34.69                    |
| 17-3022               | Civil Engineering Technologists and Technicians                            | 1,867         | 1,869          | 2                    | 0.1%        | 1               | 66         | 116          | 183          | \$29.40                    |
| 17-3023               | Electrical and Electronics Engineering Technologists and Technicians       | 1,867         | 1,892          | 25                   | 1.3%        | 12              | 94         | 107          | 213          | \$31.92                    |
| 17-3024               | Electro-Mechanical and Mechatronics Technologists and Technicians          | 645           | 645            | 0                    | 0.0%        | 0               | 23         | 40           | 63           | \$27.02                    |
| 17-3025               | Environmental Engineering Technologists and Technicians                    | 564           | 572            | 8                    | 1.4%        | 4               | 20         | 36           | 60           | \$23.68                    |
| 17-3026               | Industrial Engineering Technologists and Technicians                       | 3,893         | 3,948          | 55                   | 1.4%        | 28              | 139        | 245          | 412          | \$28.34                    |
| 17-3027               | Mechanical Engineering Technologists and Technicians                       | 2,130         | 2,190          | 60                   | 2.8%        | 30              | 76         | 135          | 241          | \$28.80                    |
| 17-3028               | Calibration Technologists and Technicians                                  | 304           | 312            | 8                    | 2.6%        | 4               | 11         | 19           | 34           | \$28.39                    |
| 17-3029               | Engineering Technologists and Technicians, except Drafters, All Other      | 2,414         | 2,435          | 21                   | 0.9%        | 10              | 86         | 152          | 248          | \$27.21                    |
| 17-3031               | Surveying and Mapping Technicians  | 1,497         | 1,500          | 3                    | 0.2%        | 2               | 60         | 126          | 188          | \$23.67                    |
| <b>19-0000</b>        | <b>Life, Physical, and Social Science Occupations</b>                      | <b>37,524</b> | <b>38,435</b>  | <b>911</b>           | <b>2.4%</b> | <b>456</b>      | <b>866</b> | <b>2,684</b> | <b>4,006</b> | <b>\$32.77</b>             |
| 19-1012               | Food Scientists and Technologists  | 583           | 599            | 16                   | 2.7%        | 8               | 16         | 42           | 66           | \$37.28                    |
| 19-1013               | Soil and Plant Scientists  | 419           | 429            | 10                   | 2.4%        | 5               | 12         | 30           | 47           | \$30.04                    |
| 19-1021               | Biochemists and Biophysicists  | 209           | 231            | 22                   | 10.5%       | 11              | 4          | 14           | 29           | \$35.80                    |
| 19-1022               | Microbiologists  | 407           | 427            | 20                   | 4.9%        | 10              | 8          | 28           | 46           | \$28.20                    |
| 19-1023               | Zoologists and Wildlife Biologists   | 178           | 182            | 4                    | 2.2%        | 2               | 4          | 12           | 18           | \$28.80                    |
| 19-1029               | Biological Scientists, All Other   | 416           | 421            | 5                    | 1.2%        | 2               | 8          | 28           | 38           | \$39.65                    |
| 19-1031               | Conservation Scientists  | 448           | 445            | -3                   | -0.7%       | -2              | 10         | 30           | 38           | \$23.64                    |
| 19-1032               | Foresters  | 164           | 162            | -2                   | -1.2%       | -1              | 4          | 11           | 14           | \$31.68                    |
| 19-1041               | Epidemiologists  | 226           | 236            | 10                   | 4.4%        | 5               | 4          | 11           | 20           | \$35.72                    |
| 19-2012               | Physicists   | 461           | 496            | 35                   | 7.6%        | 18              | 12         | 22           | 52           | \$61.46                    |
| 19-2031               | Chemists   | 3,251         | 3,364          | 113                  | 3.5%        | 56              | 57         | 212          | 325          | \$37.81                    |
| 19-2032               | Materials Scientists   | 315           | 339            | 24                   | 7.6%        | 12              | 6          | 21           | 39           | \$43.68                    |
| 19-2041               | Environmental Scientists and Specialists, Including Health                 | 2,185         | 2,204          | 19                   | 0.9%        | 10              | 46         | 152          | 208          | \$35.65                    |
| 19-2042               | Geoscientists, except Hydrologists and Geographers                         | 359           | 368            | 9                    | 2.5%        | 4               | 6          | 26           | 36           | \$37.55                    |
| 19-2043               | Hydrologists   | 311           | 315            | 4                    | 1.3%        | 2               | 4          | 23           | 29           | \$42.38                    |
| 19-2099               | Physical Scientists, All Other   | 695           | 723            | 28                   | 4.0%        | 14              | 11         | 42           | 67           | \$49.66                    |
| 19-3011               | Economists   | 248           | 254            | 6                    | 2.4%        | 3               | 6          | 13           | 22           | \$50.05                    |
| 19-3022               | Survey Researchers   | 117           | 122            | 5                    | 4.3%        | 2               | 2          | 8            | 12           | \$17.74                    |
| 19-3033               | Clinical and Counseling Psychologists                                      | 2,209         | 2,207          | -2                   | -0.1%       | -1              | 66         | 76           | 141          | \$46.35                    |
| 19-3034               | School Psychologists   | 2,199         | 2,228          | 29                   | 1.3%        | 14              | 47         | 119          | 180          | \$40.22                    |

## Ohio Occupational Employment\* Projections Report, 2022-2024

| SOC Code <sup>1</sup> | Occupational Title**   | Employment     |                | Change in Employment |              | Annual Openings |               |               |               | Median Wage***<br>May 2022 |
|-----------------------|--|----------------|----------------|----------------------|--------------|-----------------|---------------|---------------|---------------|----------------------------|
|                       |  | 2022 Annual    | 2024 Projected | 2022-2024            | Percent      | Growth          | Exits         | Transfers     | Total         |                            |
| 19-3039               | Psychologists, All Other   | 1,636          | 1,661          | 25                   | 1.5%         | 12              | 55            | 59            | 126           | \$53.40                    |
| 19-3051               | Urban and Regional Planners  | 828            | 828            | 0                    | 0.0%         | 0               | 17            | 54            | 71            | \$32.27                    |
| 19-3099               | Social Scientists and Related Workers, All Other                   | 1,572          | 1,589          | 17                   | 1.1%         | 8               | 36            | 108           | 152           | \$41.38                    |
| 19-4012               | Agricultural Technicians   | 170            | 177            | 7                    | 4.1%         | 4               | 4             | 21            | 29            | \$18.39                    |
| 19-4013               | Food Science Technicians   | 203            | 208            | 5                    | 2.5%         | 2               | 4             | 24            | 30            | \$31.27                    |
| 19-4021               | Biological Technicians   | 2,644          | 2,730          | 86                   | 3.3%         | 43              | 77            | 272           | 392           | \$24.09                    |
| 19-4031               | Chemical Technicians   | 1,982          | 2,027          | 45                   | 2.3%         | 22              | 42            | 202           | 266           | \$24.15                    |
| 19-4042               | Environmental Science and Protection Technicians, Including Health | 1,186          | 1,195          | 9                    | 0.8%         | 4               | 28            | 96            | 128           | \$22.30                    |
| 19-4043               | Geological Technicians, except Hydrologic Technicians              | 130            | 132            | 2                    | 1.5%         | 1               | 3             | 10            | 14            | \$30.18                    |
| 19-4051               | Nuclear Technicians  | 231            | 216            | -15                  | -6.5%        | -8              | 5             | 18            | 15            | \$48.28 *                  |
| 19-4061               | Social Science Research Assistants                                 | 309            | 329            | 20                   | 6.5%         | 10              | 8             | 30            | 48            | \$19.22                    |
| 19-4071               | Forest and Conservation Technicians                                | 278            | 277            | -1                   | -0.4%        | 0               | 8             | 26            | 34            | \$18.96                    |
| 19-4092               | Forensic Science Technicians                                       | 464            | 473            | 9                    | 1.9%         | 4               | 12            | 45            | 61            | \$30.59                    |
| 19-4099               | Life, Physical, and Social Science Technicians, All Other          | 1,438          | 1,488          | 50                   | 3.5%         | 25              | 39            | 141           | 205           | \$22.00                    |
| 19-5011               | Occupational Health and Safety Specialists                         | 5,384          | 5,502          | 118                  | 2.2%         | 59              | 124           | 434           | 617           | \$37.63                    |
| 19-5012               | Occupational Health and Safety Technicians                         | 750            | 766            | 16                   | 2.1%         | 8               | 18            | 60            | 86            | \$27.09                    |
| <b>21-0000</b>        | <b>Community and Social Service Occupations</b>                    | <b>103,715</b> | <b>104,117</b> | <b>402</b>           | <b>0.4%</b>  | <b>201</b>      | <b>4,134</b>  | <b>5,832</b>  | <b>10,167</b> | <b>\$22.99</b>             |
| 21-1012               | Educational, Guidance, and Career Counselors and Advisors          | 11,553         | 11,555         | 2                    | 0.0%         | 1               | 362           | 582           | 945           | \$31.62                    |
| 21-1013               | Marriage and Family Therapists                                     | 268            | 267            | -1                   | -0.4%        | 0               | 11            | 10            | 21            | \$24.28                    |
| 21-1015               | Rehabilitation Counselors  | 3,347          | 3,377          | 30                   | 0.9%         | 15              | 130           | 175           | 320           | \$18.96                    |
| 21-1018               | Substance Abuse, Behavioral Disorder, and Mental Health Counselors | 12,959         | 13,173         | 214                  | 1.7%         | 107             | 473           | 728           | 1,308         | \$23.28                    |
| 21-1019               | Counselors, All Other  | 2,133          | 2,126          | -7                   | -0.3%        | -4              | 95            | 120           | 211           | \$21.27                    |
| 21-1021               | Child, Family, and School Social Workers                           | 11,017         | 11,009         | -8                   | -0.1%        | -4              | 360           | 658           | 1,014         | \$22.56                    |
| 21-1022               | Healthcare Social Workers  | 6,903          | 6,860          | -43                  | -0.6%        | -22             | 274           | 368           | 620           | \$28.95                    |
| 21-1023               | Mental Health and Substance Abuse Social Workers                   | 5,837          | 5,879          | 42                   | 0.7%         | 21              | 293           | 235           | 549           | \$19.68                    |
| 21-1029               | Social Workers, All Other  | 3,378          | 3,391          | 13                   | 0.4%         | 6               | 112           | 202           | 320           | \$26.98                    |
| 21-1091               | Health Education Specialists                                       | 1,905          | 1,924          | 19                   | 1.0%         | 10              | 78            | 128           | 216           | \$25.51                    |
| 21-1092               | Probation Officers and Correctional Treatment Specialists          | 3,073          | 3,063          | -10                  | -0.3%        | -5              | 88            | 169           | 252           | \$26.04                    |
| 21-1093               | Social and Human Service Assistants                                | 14,034         | 14,034         | 0                    | 0.0%         | 0               | 657           | 935           | 1,592         | \$17.49                    |
| 21-1094               | Community Health Workers   | 2,322          | 2,348          | 26                   | 1.1%         | 13              | 95            | 156           | 264           | \$19.41                    |
| 21-1099               | Community and Social Service Specialists, All Other                | 1,942          | 1,942          | 0                    | 0.0%         | 0               | 79            | 130           | 209           | \$21.96                    |
| 21-2011               | Clergy   | 18,712         | 18,810         | 98                   | 0.5%         | 49              | 788           | 958           | 1,795         | \$24.19                    |
| 21-2021               | Directors, Religious Activities and Education                      | 1,859          | 1,868          | 9                    | 0.5%         | 4               | 78            | 117           | 199           | \$19.73                    |
| 21-2099               | Religious Workers, All Other                                       | 2,473          | 2,491          | 18                   | 0.7%         | 9               | 159           | 160           | 328           | \$24.85                    |
| <b>23-0000</b>        | <b>Legal Occupations</b>   | <b>35,442</b>  | <b>35,840</b>  | <b>398</b>           | <b>1.1%</b>  | <b>199</b>      | <b>1,109</b>  | <b>1,312</b>  | <b>2,620</b>  | <b>\$38.46</b>             |
| 23-1011               | Lawyers  | 18,952         | 19,193         | 241                  | 1.3%         | 120             | 480           | 408           | 1,008         | \$51.62                    |
| 23-1012               | Judicial Law Clerks  | 282            | 281            | -1                   | -0.4%        | 0               | 10            | 10            | 20            | \$22.88                    |
| 23-1021               | Administrative Law Judges, Adjudicators, and Hearing Officers      | 710            | 713            | 3                    | 0.4%         | 2               | 18            | 15            | 35            | \$29.58                    |
| 23-1022               | Arbitrators, Mediators, and Conciliators                           | 250            | 247            | -3                   | -1.2%        | -2              | 6             | 6             | 10            | \$31.16                    |
| 23-1023               | Judges, Magistrate Judges, and Magistrates                         | 2,572          | 2,573          | 1                    | 0.0%         | 0               | 65            | 55            | 120           | \$61.10                    |
| 23-2011               | Paralegals and Legal Assistants                                    | 9,277          | 9,465          | 188                  | 2.0%         | 94              | 390           | 622           | 1,106         | \$24.32                    |
| 23-2093               | Title Examiners, Abstractors, and Searchers                        | 2,741          | 2,710          | -31                  | -1.1%        | -16             | 108           | 152           | 244           | \$23.82                    |
| 23-2099               | Legal Support Workers, All Other                                   | 658            | 658            | 0                    | 0.0%         | 0               | 30            | 44            | 74            | \$28.29                    |
| <b>25-0000</b>        | <b>Educational Instruction and Library Occupations</b>             | <b>315,060</b> | <b>314,821</b> | <b>-239</b>          | <b>-0.1%</b> | <b>-120</b>     | <b>13,520</b> | <b>13,909</b> | <b>27,309</b> | <b>\$29.07</b>             |
| 25-1011               | Business Teachers, Postsecondary                                   | 5,517          | 5,368          | -149                 | -2.7%        | -74             | 246           | 207           | 379           | \$79,930 **                |
| 25-1021               | Computer Science Teachers, Postsecondary                           | 957            | 935            | -22                  | -2.3%        | -11             | 42            | 36            | 67            | \$78,690 **                |
| 25-1022               | Mathematical Science Teachers, Postsecondary                       | 1,711          | 1,670          | -41                  | -2.4%        | -20             | 76            | 64            | 120           | \$79,590 **                |
| 25-1031               | Architecture Teachers, Postsecondary                               | 122            | 119            | -3                   | -2.5%        | -2              | 6             | 4             | 8             | ▲                          |

## Ohio Occupational Employment\* Projections Report, 2022-2024

| SOC Code <sup>1</sup> | Occupational Title**   | Employment  |                | Change in Employment |         | Annual Openings |       |           |       | Median Wage***<br>May 2022 |
|-----------------------|--|-------------|----------------|----------------------|---------|-----------------|-------|-----------|-------|----------------------------|
|                       |  | 2022 Annual | 2024 Projected | 2022-2024            | Percent | Growth          | Exits | Transfers | Total |                            |
| 25-1032               | Engineering Teachers, Postsecondary                                      | 1,477       | 1,452          | -25                  | -1.7%   | -12             | 66    | 56        | 110   | \$102,540 **               |
| 25-1042               | Biological Science Teachers, Postsecondary                               | 1,646       | 1,624          | -22                  | -1.3%   | -11             | 74    | 62        | 125   | \$78,640 **                |
| 25-1051               | Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary   | 364         | 355            | -9                   | -2.5%   | -4              | 16    | 14        | 26    | \$91,330 **                |
| 25-1052               | Chemistry Teachers, Postsecondary  | 760         | 741            | -19                  | -2.5%   | -10             | 34    | 28        | 52    | \$77,540 **                |
| 25-1053               | Environmental Science Teachers, Postsecondary                            | 148         | 144            | -4                   | -2.7%   | -2              | 6     | 6         | 10    | \$84,930 **                |
| 25-1054               | Physics Teachers, Postsecondary  | 403         | 393            | -10                  | -2.5%   | -5              | 18    | 15        | 28    | \$83,560 **                |
| 25-1061               | Anthropology and Archeology Teachers, Postsecondary                      | 112         | 109            | -3                   | -2.7%   | -2              | 5     | 4         | 7     | \$77,950 **                |
| 25-1062               | Area, Ethnic, and Cultural Studies Teachers, Postsecondary               | 314         | 306            | -8                   | -2.5%   | -4              | 14    | 12        | 22    | \$77,110 **                |
| 25-1063               | Economics Teachers, Postsecondary  | 354         | 346            | -8                   | -2.3%   | -4              | 16    | 14        | 26    | \$87,660 **                |
| 25-1064               | Geography Teachers, Postsecondary  | 113         | 110            | -3                   | -2.7%   | -2              | 5     | 4         | 7     | \$85,220 **                |
| 25-1065               | Political Science Teachers, Postsecondary                                | 392         | 383            | -9                   | -2.3%   | -4              | 18    | 14        | 28    | \$79,760 **                |
| 25-1066               | Psychology Teachers, Postsecondary                                       | 1,170       | 1,147          | -23                  | -2.0%   | -12             | 52    | 44        | 84    | \$77,800 **                |
| 25-1067               | Sociology Teachers, Postsecondary  | 400         | 389            | -11                  | -2.8%   | -6              | 18    | 15        | 27    | \$75,760 **                |
| 25-1069               | Social Sciences Teachers, Postsecondary, All Other                       | 374         | 365            | -9                   | -2.4%   | -4              | 16    | 14        | 26    | \$61,990 **                |
| 25-1071               | Health Specialties Teachers, Postsecondary                               | 7,299       | 7,397          | 98                   | 1.3%    | 49              | 332   | 279       | 660   | \$107,020 **               |
| 25-1072               | Nursing Instructors and Teachers, Postsecondary                          | 3,518       | 3,541          | 23                   | 0.7%    | 12              | 160   | 134       | 306   | \$79,050 **                |
| 25-1081               | Education Teachers, Postsecondary  | 2,208       | 2,150          | -58                  | -2.6%   | -29             | 98    | 83        | 152   | \$65,110 **                |
| 25-1082               | Library Science Teachers, Postsecondary                                  | 168         | 163            | -5                   | -3.0%   | -2              | 8     | 6         | 12    | \$66,290 **                |
| 25-1111               | Criminal Justice and Law Enforcement Teachers, Postsecondary             | 567         | 561            | -6                   | -1.1%   | -3              | 26    | 22        | 45    | \$59,260 **                |
| 25-1112               | Law Teachers, Postsecondary  | 474         | 463            | -11                  | -2.3%   | -6              | 21    | 18        | 33    | \$127,170 **               |
| 25-1113               | Social Work Teachers, Postsecondary                                      | 451         | 440            | -11                  | -2.4%   | -6              | 20    | 17        | 31    | \$76,770 **                |
| 25-1121               | Art, Drama, and Music Teachers, Postsecondary                            | 4,072       | 3,995          | -77                  | -1.9%   | -38             | 182   | 153       | 297   | \$64,910 **                |
| 25-1122               | Communications Teachers, Postsecondary                                   | 1,018       | 994            | -24                  | -2.4%   | -12             | 46    | 38        | 72    | \$75,150 **                |
| 25-1123               | English Language and Literature Teachers, Postsecondary                  | 1,962       | 1,916          | -46                  | -2.3%   | -23             | 88    | 74        | 139   | \$63,760 **                |
| 25-1124               | Foreign Language and Literature Teachers, Postsecondary                  | 895         | 872            | -23                  | -2.6%   | -12             | 40    | 34        | 62    | \$64,960 **                |
| 25-1125               | History Teachers, Postsecondary  | 651         | 636            | -15                  | -2.3%   | -8              | 29    | 24        | 45    | \$79,910 **                |
| 25-1126               | Philosophy and Religion Teachers, Postsecondary                          | 829         | 812            | -17                  | -2.1%   | -8              | 37    | 31        | 60    | \$80,060 **                |
| 25-1192               | Family and Consumer Sciences Teachers, Postsecondary                     | 123         | 119            | -4                   | -3.3%   | -2              | 6     | 4         | 8     | \$65,750 **                |
| 25-1193               | Recreation and Fitness Studies Teachers, Postsecondary                   | 610         | 594            | -16                  | -2.6%   | -8              | 27    | 23        | 42    | \$63,590 **                |
| 25-1194               | Career/Technical Education Teachers, Postsecondary                       | 3,054       | 3,065          | 11                   | 0.4%    | 6               | 138   | 116       | 260   | \$99.23                    |
| 25-1199               | Postsecondary Teachers, All Other  | 4,413       | 4,304          | -109                 | -2.5%   | -54             | 196   | 166       | 308   | \$66,250 **                |
| 25-2011               | Preschool Teachers, except Special Education                             | 14,896      | 15,125         | 229                  | 1.5%    | 114             | 695   | 916       | 1,725 | \$13.97                    |
| 25-2012               | Kindergarten Teachers, except Special Education                          | 3,551       | 3,546          | -5                   | -0.1%   | -2              | 164   | 216       | 378   | \$58,380 **                |
| 25-2021               | Elementary School Teachers, except Special Education                     | 50,584      | 50,487         | -97                  | -0.2%   | -48             | 1,696 | 1,962     | 3,610 | \$64,450 **                |
| 25-2022               | Middle School Teachers, except Special and Career/Technical Education    | 24,994      | 24,943         | -51                  | -0.2%   | -26             | 838   | 969       | 1,781 | \$75,250 **                |
| 25-2031               | Secondary School Teachers, except Special and Career/Technical Education | 58,400      | 58,349         | -51                  | -0.1%   | -26             | 1,673 | 2,262     | 3,909 | \$73,520 **                |
| 25-2032               | Career/Technical Education Teachers, Secondary School                    | 4,408       | 4,399          | -9                   | -0.2%   | -4              | 126   | 170       | 292   | \$77,120 **                |
| 25-2051               | Special Education Teachers, Preschool                                    | 1,282       | 1,288          | 6                    | 0.5%    | 3               | 44    | 50        | 97    | \$60,950 **                |
| 25-2052               | Special Education Teachers, Kindergarten and Elementary School           | 8,514       | 8,498          | -16                  | -0.2%   | -8              | 292   | 329       | 613   | \$71,320 **                |
| 25-2057               | Special Education Teachers, Middle School                                | 3,917       | 3,908          | -9                   | -0.2%   | -4              | 134   | 151       | 281   | \$63,510 **                |
| 25-2058               | Special Education Teachers, Secondary School                             | 8,884       | 8,926          | 42                   | 0.5%    | 21              | 306   | 344       | 671   | \$71,520 **                |
| 25-3021               | Self-Enrichment Teachers   | 10,088      | 10,292         | 204                  | 2.0%    | 102             | 623   | 534       | 1,259 | \$16.36                    |
| 25-3031               | Substitute Teachers, Short-Term  | 5,407       | 5,458          | 51                   | 0.9%    | 26              | 332   | 285       | 643   | \$13.96                    |
| 25-3041               | Tutors   | 6,717       | 6,758          | 41                   | 0.6%    | 20              | 584   | 406       | 1,010 | \$19.57                    |
| 25-3099               | Teachers and Instructors, All Other                                      | 926         | 942            | 16                   | 1.7%    | 8               | 57    | 49        | 114   | \$45,740 **                |
| 25-4011               | Archivists   | 115         | 115            | 0                    | 0.0%    | 0               | 7     | 7         | 14    | \$22.14                    |
| 25-4012               | Curators   | 300         | 301            | 1                    | 0.3%    | 0               | 18    | 18        | 36    | \$27.23                    |
| 25-4013               | Museum Technicians and Conservators                                      | 286         | 285            | -1                   | -0.3%   | 0               | 17    | 18        | 35    | \$21.22                    |

## Ohio Occupational Employment\* Projections Report, 2022-2024

| SOC Code <sup>1</sup> | Occupational Title**   | Employment     |                | Change in Employment |             | Annual Openings |               |               |               | Median Wage***<br>May 2022 |
|-----------------------|--|----------------|----------------|----------------------|-------------|-----------------|---------------|---------------|---------------|----------------------------|
|                       |  | 2022 Annual    | 2024 Projected | 2022-2024            | Percent     | Growth          | Exits         | Transfers     | Total         |                            |
| 25-4022               | Librarians and Media Collections Specialists                       | 4,039          | 4,010          | -29                  | -0.7%       | -14             | 238           | 162           | 386           | \$22.74                    |
| 25-4031               | Library Technicians  | 2,472          | 2,409          | -63                  | -2.5%       | -32             | 220           | 132           | 320           | \$16.28                    |
| 25-9031               | Instructional Coordinators   | 4,866          | 4,885          | 19                   | 0.4%        | 10              | 238           | 205           | 453           | \$31.00                    |
| 25-9044               | Teaching Assistants, Postsecondary                                 | 2,310          | 2,243          | -67                  | -2.9%       | -34             | 136           | 130           | 232           | \$30,370 **                |
| 25-9045               | Teaching Assistants, except Postsecondary                          | 45,808         | 46,016         | 208                  | 0.5%        | 104             | 2,736         | 2,614         | 5,454         | \$30,940 **                |
| 25-9099               | Educational Instruction and Library Workers, All Other             | 1,859          | 1,883          | 24                   | 1.3%        | 12              | 92            | 78            | 182           | \$18.31                    |
| <b>27-0000</b>        | <b>Arts, Design, Entertainment, Sports, and Media Occupations</b>  | <b>81,052</b>  | <b>81,072</b>  | <b>20</b>            | <b>0.0%</b> | <b>10</b>       | <b>3,497</b>  | <b>5,002</b>  | <b>8,509</b>  | <b>\$22.86</b>             |
| 27-1011               | Art Directors  | 2,840          | 2,817          | -23                  | -0.8%       | -12             | 146           | 150           | 284           | \$39.64                    |
| 27-1012               | Craft Artists  | 241            | 233            | -8                   | -3.3%       | -4              | 12            | 12            | 20            | \$17.97                    |
| 27-1013               | Fine Artists, Including Painters, Sculptors, and Illustrators      | 1,027          | 1,024          | -3                   | -0.3%       | -2              | 53            | 54            | 105           | \$21.88                    |
| 27-1019               | Artists and Related Workers, All Other                             | 198            | 200            | 2                    | 1.0%        | 1               | 10            | 10            | 21            | \$33.06                    |
| 27-1021               | Commercial and Industrial Designers                                | 1,359          | 1,379          | 20                   | 1.5%        | 10              | 40            | 79            | 129           | \$33.91                    |
| 27-1023               | Floral Designers   | 1,355          | 1,351          | -4                   | -0.3%       | -2              | 82            | 78            | 158           | \$13.97                    |
| 27-1024               | Graphic Designers  | 9,902          | 9,875          | -27                  | -0.3%       | -14             | 297           | 590           | 873           | \$24.14                    |
| 27-1025               | Interior Designers   | 3,066          | 3,077          | 11                   | 0.4%        | 6               | 110           | 156           | 272           | \$27.13                    |
| 27-1026               | Merchandise Displayers and Window Trimmers                         | 5,705          | 5,860          | 155                  | 2.7%        | 78              | 272           | 406           | 756           | \$15.94                    |
| 27-1027               | Set and Exhibit Designers  | 537            | 539            | 2                    | 0.4%        | 1               | 16            | 32            | 49            | \$24.23                    |
| 27-1029               | Designers, All Other   | 380            | 372            | -8                   | -2.1%       | -4              | 12            | 23            | 31            | \$27.50                    |
| 27-2011               | Actors   | 1,392          | 1,444          | 52                   | 3.7%        | 26              | 81            | 95            | 202           | \$9.99                     |
| 27-2012               | Producers and Directors  | 2,187          | 2,091          | -96                  | -4.4%       | -48             | 62            | 139           | 153           | \$28.71                    |
| 27-2022               | Coaches and Scouts   | 9,512          | 9,622          | 110                  | 1.2%        | 55              | 538           | 708           | 1,301         | \$38,240 **                |
| 27-2023               | Umpires, Referees, and Other Sports Officials                      | 159            | 164            | 5                    | 3.1%        | 2               | 20            | 14            | 36            | \$39,290 **                |
| 27-2032               | Choreographers   | 419            | 434            | 15                   | 3.6%        | 8               | 28            | 44            | 80            | \$24.54                    |
| 27-2041               | Music Directors and Composers                                      | 2,471          | 2,482          | 11                   | 0.4%        | 6               | 100           | 138           | 244           | \$31.48                    |
| 27-2042               | Musicians and Singers  | 6,782          | 6,832          | 50                   | 0.7%        | 25              | 514           | 374           | 913           | \$32.22                    |
| 27-2099               | Entertainers and Performers, Sports and Related Workers, All Other | 301            | 300            | -1                   | -0.3%       | 0               | 16            | 18            | 34            | \$15.41                    |
| 27-3011               | Broadcast Announcers and Radio Disc Jockeys                        | 622            | 567            | -55                  | -8.8%       | -28             | 23            | 36            | 31            | \$15.20                    |
| 27-3023               | News Analysts, Reporters, and Journalists                          | 1,668          | 1,578          | -90                  | -5.4%       | -45             | 62            | 128           | 145           | \$18.33                    |
| 27-3031               | Public Relations Specialists                                       | 7,608          | 7,613          | 5                    | 0.1%        | 2               | 190           | 475           | 667           | \$32.15                    |
| 27-3041               | Editors  | 2,503          | 2,432          | -71                  | -2.8%       | -36             | 104           | 146           | 214           | \$30.23                    |
| 27-3042               | Technical Writers  | 1,544          | 1,586          | 42                   | 2.7%        | 21              | 45            | 96            | 162           | \$31.20                    |
| 27-3043               | Writers and Authors  | 3,521          | 3,485          | -36                  | -1.0%       | -18             | 154           | 198           | 334           | \$24.93                    |
| 27-3091               | Interpreters and Translators                                       | 2,246          | 2,336          | 90                   | 4.0%        | 45              | 121           | 112           | 278           | \$25.01                    |
| 27-3092               | Court Reporters and Simultaneous Captioners                        | 401            | 394            | -7                   | -1.7%       | -4              | 26            | 17            | 39            | \$27.09                    |
| 27-3099               | Media and Communication Workers, All Other                         | 403            | 410            | 7                    | 1.7%        | 4               | 10            | 27            | 41            | \$20.13                    |
| 27-4011               | Audio and Video Technicians  | 1,711          | 1,700          | -11                  | -0.6%       | -6              | 46            | 116           | 156           | \$22.06                    |
| 27-4012               | Broadcast Technicians  | 754            | 699            | -55                  | -7.3%       | -28             | 20            | 50            | 42            | \$19.35                    |
| 27-4021               | Photographers  | 4,587          | 4,625          | 38                   | 0.8%        | 19              | 158           | 247           | 424           | \$17.67                    |
| 27-4031               | Camera Operators, Television, Video, and Film                      | 383            | 369            | -14                  | -3.7%       | -7              | 12            | 24            | 29            | \$21.63                    |
| 27-4032               | Film and Video Editors   | 736            | 693            | -43                  | -5.8%       | -22             | 23            | 46            | 47            | \$21.36                    |
| 27-4099               | Media and Communication Equipment Workers, All Other               | 811            | 791            | -20                  | -2.5%       | -10             | 22            | 54            | 66            | \$32.77                    |
| <b>29-0000</b>        | <b>Healthcare Practitioners and Technical Occupations</b>          | <b>376,929</b> | <b>378,042</b> | <b>1,113</b>         | <b>0.3%</b> | <b>556</b>      | <b>11,564</b> | <b>10,929</b> | <b>23,049</b> | <b>\$33.64</b>             |
| 29-1011               | Chiropractors  | 1,199          | 1,187          | -12                  | -1.0%       | -6              | 26            | 9             | 29            | \$31.34                    |
| 29-1021               | Dentists, General  | 3,030          | 3,068          | 38                   | 1.3%        | 19              | 62            | 23            | 104           | \$73.57                    |
| 29-1023               | Orthodontists  | 542            | 548            | 6                    | 1.1%        | 3               | 11            | 4             | 18            | \$89.48                    |
| 29-1029               | Dentists, All Other Specialists                                    | 113            | 115            | 2                    | 1.8%        | 1               | 2             | 1             | 4             | \$102.28 +                 |
| 29-1031               | Dietitians and Nutritionists                                       | 2,802          | 2,792          | -10                  | -0.4%       | -5              | 96            | 88            | 179           | \$30.12                    |
| 29-1041               | Optometrists   | 1,301          | 1,292          | -9                   | -0.7%       | -4              | 26            | 12            | 34            | \$61.25                    |

## Ohio Occupational Employment\* Projections Report, 2022-2024

| SOC Code <sup>1</sup> | Occupational Title**                                       | Employment  |                | Change in Employment |         | Annual Openings |       |           |       | Median Wage***<br>May 2022 |
|-----------------------|--|-------------|----------------|----------------------|---------|-----------------|-------|-----------|-------|----------------------------|
|                       |  | 2022 Annual | 2024 Projected | 2022-2024            | Percent | Growth          | Exits | Transfers | Total |                            |
| 29-1051               | Pharmacists  | 13,154      | 13,042         | -112                 | -0.9%   | -56             | 279   | 234       | 457   | \$63.03                    |
| 29-1071               | Physician Assistants                                       | 3,606       | 3,769          | 163                  | 4.5%    | 82              | 79    | 126       | 287   | \$54.93                    |
| 29-1081               | Podiatrists  | 359         | 354            | -5                   | -1.4%   | -2              | 6     | 2         | 6     | \$56.40                    |
| 29-1122               | Occupational Therapists                                    | 6,014       | 6,069          | 55                   | 0.9%    | 28              | 168   | 180       | 376   | \$44.74                    |
| 29-1123               | Physical Therapists  | 8,677       | 8,753          | 76                   | 0.9%    | 38              | 212   | 168       | 418   | \$46.99                    |
| 29-1124               | Radiation Therapists                                       | 352         | 352            | 0                    | 0.0%    | 0               | 6     | 9         | 15    | \$38.50                    |
| 29-1125               | Recreational Therapists                                    | 536         | 518            | -18                  | -3.4%   | -9              | 20    | 23        | 34    | \$24.59                    |
| 29-1126               | Respiratory Therapists                                     | 6,006       | 6,163          | 157                  | 2.6%    | 78              | 172   | 144       | 394   | \$31.61                    |
| 29-1127               | Speech-Language Pathologists                               | 6,948       | 7,177          | 229                  | 3.3%    | 114             | 194   | 228       | 536   | \$39.80                    |
| 29-1128               | Exercise Physiologists                                     | 844         | 850            | 6                    | 0.7%    | 3               | 29    | 26        | 58    | \$23.42                    |
| 29-1131               | Veterinarians  | 3,728       | 3,820          | 92                   | 2.5%    | 46              | 74    | 50        | 170   | \$50.22                    |
| 29-1141               | Registered Nurses  | 129,142     | 129,031        | -111                 | -0.1%   | -56             | 4,138 | 3,205     | 7,287 | \$36.93                    |
| 29-1151               | Nurse Anesthetists   | 2,853       | 2,882          | 29                   | 1.0%    | 14              | 65    | 76        | 155   | \$85.82                    |
| 29-1161               | Nurse Midwives   | 192         | 191            | -1                   | -0.5%   | 0               | 4     | 6         | 10    | \$62.63                    |
| 29-1171               | Nurse Practitioners  | 10,532      | 11,379         | 847                  | 8.0%    | 424             | 249   | 312       | 985   | \$54.35                    |
| 29-1181               | Audiologists   | 750         | 756            | 6                    | 0.8%    | 3               | 18    | 14        | 35    | \$36.99                    |
| 29-1211               | Anesthesiologists  | 1,303       | 1,281          | -22                  | -1.7%   | -11             | 25    | 12        | 26    | #                          |
| 29-1212               | Cardiologists  | 264         | 264            | 0                    | 0.0%    | 0               | 5     | 2         | 7     | #                          |
| 29-1213               | Dermatologists   | 434         | 434            | 0                    | 0.0%    | 0               | 8     | 4         | 12    | #                          |
| 29-1214               | Emergency Medicine Physicians                              | 1,081       | 1,082          | 1                    | 0.1%    | 0               | 21    | 10        | 31    | #                          |
| 29-1215               | Family Medicine Physicians                                 | 4,667       | 4,641          | -26                  | -0.6%   | -13             | 90    | 42        | 119   | \$74.40                    |
| 29-1216               | General Internal Medicine Physicians                       | 1,077       | 1,055          | -22                  | -2.0%   | -11             | 20    | 10        | 19    | \$75.82                    |
| 29-1217               | Neurologists   | 169         | 167            | -2                   | -1.2%   | -1              | 3     | 2         | 4     | \$107.82 <sup>+</sup>      |
| 29-1218               | Obstetricians and Gynecologists                            | 985         | 962            | -23                  | -2.3%   | -12             | 18    | 9         | 15    | \$81.10                    |
| 29-1221               | Pediatricians, General                                     | 1,002       | 981            | -21                  | -2.1%   | -10             | 19    | 9         | 18    | \$103.27                   |
| 29-1223               | Psychiatrists  | 688         | 688            | 0                    | 0.0%    | 0               | 13    | 6         | 19    | \$111.16                   |
| 29-1229               | Physicians, All Other                                      | 15,546      | 15,542         | -4                   | 0.0%    | -2              | 298   | 142       | 438   | \$88.87                    |
| 29-1241               | Ophthalmologists, except Pediatric                         | 164         | 164            | 0                    | 0.0%    | 0               | 2     | 2         | 4     | #                          |
| 29-1242               | Orthopedic Surgeons, except Pediatric                      | 754         | 758            | 4                    | 0.5%    | 2               | 12    | 7         | 21    | #                          |
| 29-1249               | Surgeons, All Other  | 659         | 659            | 0                    | 0.0%    | 0               | 11    | 6         | 17    | #                          |
| 29-1292               | Dental Hygienists  | 8,926       | 9,081          | 155                  | 1.7%    | 78              | 376   | 204       | 658   | \$36.71                    |
| 29-1299               | Healthcare Diagnosing or Treating Practitioners, All Other | 678         | 679            | 1                    | 0.1%    | 0               | 39    | 10        | 49    | \$38.76                    |
| 29-2010               | Clinical Laboratory Technologists and Technicians          | 12,994      | 13,038         | 44                   | 0.3%    | 22              | 414   | 482       | 918   | \$27.59                    |
| 29-2031               | Cardiovascular Technologists and Technicians               | 2,402       | 2,400          | -2                   | -0.1%   | -1              | 78    | 78        | 155   | \$31.18                    |
| 29-2032               | Diagnostic Medical Sonographers                            | 3,592       | 3,657          | 65                   | 1.8%    | 32              | 105   | 92        | 229   | \$37.87                    |
| 29-2033               | Nuclear Medicine Technologists                             | 998         | 993            | -5                   | -0.5%   | -2              | 25    | 26        | 49    | \$38.43                    |
| 29-2034               | Radiologic Technologists and Technicians                   | 10,359      | 10,375         | 16                   | 0.2%    | 8               | 282   | 276       | 566   | \$30.70                    |
| 29-2035               | Magnetic Resonance Imaging Technologists                   | 1,489       | 1,485          | -4                   | -0.3%   | -2              | 52    | 36        | 86    | \$36.75                    |
| 29-2042               | Emergency Medical Technicians                              | 5,747       | 5,717          | -30                  | -0.5%   | -15             | 140   | 294       | 419   | \$17.36                    |
| 29-2043               | Paramedics   | 4,119       | 4,099          | -20                  | -0.5%   | -10             | 82    | 138       | 210   | \$22.41                    |
| 29-2051               | Dietetic Technicians                                       | 1,059       | 1,037          | -22                  | -2.1%   | -11             | 50    | 62        | 101   | \$16.20                    |
| 29-2052               | Pharmacy Technicians                                       | 16,605      | 16,710         | 105                  | 0.6%    | 52              | 598   | 902       | 1,552 | \$17.55                    |
| 29-2053               | Psychiatric Technicians                                    | 1,571       | 1,562          | -9                   | -0.6%   | -4              | 57    | 76        | 129   | \$16.95                    |
| 29-2055               | Surgical Technologists                                     | 3,827       | 3,841          | 14                   | 0.4%    | 7               | 114   | 144       | 265   | \$24.83                    |
| 29-2056               | Veterinary Technologists and Technicians                   | 4,898       | 5,018          | 120                  | 2.4%    | 60              | 161   | 320       | 541   | \$17.95                    |
| 29-2057               | Ophthalmic Medical Technicians                             | 3,277       | 3,295          | 18                   | 0.5%    | 9               | 158   | 192       | 359   | \$18.70                    |
| 29-2061               | Licensed Practical and Licensed Vocational Nurses          | 35,940      | 35,109         | -831                 | -2.3%   | -416            | 1,418 | 1,446     | 2,448 | \$24.32                    |
| 29-2072               | Medical Records Specialists                                | 8,073       | 8,125          | 52                   | 0.6%    | 26              | 294   | 282       | 602   | \$22.15                    |

## Ohio Occupational Employment\* Projections Report, 2022-2024

| SOC Code <sup>1</sup> | Occupational Title**  | Employment     |                | Change in Employment |              | Annual Openings |               |               |               | Median Wage*** May 2022 |
|-----------------------|---|----------------|----------------|----------------------|--------------|-----------------|---------------|---------------|---------------|-------------------------|
|                       |   | 2022 Annual    | 2024 Projected | 2022-2024            | Percent      | Growth          | Exits         | Transfers     | Total         |                         |
| 29-2081               | Opticians, Dispensing   | 3,091          | 3,103          | 12                   | 0.4%         | 6               | 136           | 124           | 266           | \$19.94                 |
| 29-2091               | Orthotists and Prosthetists   | 541            | 554            | 13                   | 2.4%         | 6               | 18            | 20            | 44            | \$28.56                 |
| 29-2092               | Hearing Aid Specialists   | 236            | 241            | 5                    | 2.1%         | 2               | 8             | 9             | 19            | \$30.07                 |
| 29-2099               | Health Technologists and Technicians, All Other                           | 7,227          | 7,284          | 57                   | 0.8%         | 28              | 240           | 274           | 542           | \$18.80                 |
| 29-9021               | Health Information Technologists and Medical Registrars                   | 1,545          | 1,552          | 7                    | 0.5%         | 4               | 46            | 52            | 102           | \$27.85                 |
| 29-9091               | Athletic Trainers   | 1,699          | 1,733          | 34                   | 2.0%         | 17              | 51            | 57            | 125           | \$51,850 **             |
| 29-9092               | Genetic Counselors  | 120            | 124            | 4                    | 3.3%         | 2               | 4             | 4             | 10            | \$39.43                 |
| 29-9093               | Surgical Assistants   | 420            | 424            | 4                    | 1.0%         | 2               | 12            | 14            | 28            | \$22.75                 |
| 29-9099               | Healthcare Practitioners and Technical Workers, All Other                 | 1,454          | 1,460          | 6                    | 0.4%         | 3               | 44            | 48            | 95            | \$19.22                 |
| <b>31-0000</b>        | <b>Healthcare Support Occupations</b>                                     | <b>224,201</b> | <b>224,087</b> | <b>-114</b>          | <b>-0.1%</b> | <b>-57</b>      | <b>15,252</b> | <b>18,125</b> | <b>33,320</b> | <b>\$14.95</b>          |
| 31-1120               | Home Health and Personal Care Aides                                       | 97,748         | 98,330         | 582                  | 0.6%         | 291             | 7,947         | 6,866         | 15,104        | \$13.19                 |
| 31-1131               | Nursing Assistants  | 57,943         | 56,303         | -1,640               | -2.8%        | -820            | 3,740         | 4,836         | 7,756         | \$16.82                 |
| 31-1132               | Orderlies   | 2,068          | 2,069          | 1                    | 0.0%         | 0               | 123           | 196           | 319           | \$16.97                 |
| 31-1133               | Psychiatric Aides   | 991            | 985            | -6                   | -0.6%        | -3              | 59            | 94            | 150           | \$18.19                 |
| 31-2011               | Occupational Therapy Assistants   | 3,418          | 3,517          | 99                   | 2.9%         | 50              | 188           | 350           | 588           | \$29.57                 |
| 31-2021               | Physical Therapist Assistants   | 6,137          | 6,306          | 169                  | 2.8%         | 84              | 298           | 573           | 955           | \$29.88                 |
| 31-2022               | Physical Therapist Aides  | 914            | 925            | 11                   | 1.2%         | 6               | 44            | 84            | 134           | \$15.32                 |
| 31-9011               | Massage Therapists  | 3,498          | 3,546          | 48                   | 1.4%         | 24              | 242           | 232           | 498           | \$22.67                 |
| 31-9091               | Dental Assistants   | 10,754         | 10,938         | 184                  | 1.7%         | 92              | 596           | 953           | 1,641         | \$21.62                 |
| 31-9092               | Medical Assistants  | 25,429         | 25,841         | 412                  | 1.6%         | 206             | 1,184         | 2,370         | 3,760         | \$17.74                 |
| 31-9093               | Medical Equipment Preparers   | 2,868          | 2,884          | 16                   | 0.6%         | 8               | 162           | 244           | 414           | \$18.85                 |
| 31-9094               | Medical Transcriptionists   | 1,229          | 1,120          | -109                 | -8.9%        | -54             | 66            | 130           | 142           | \$15.47                 |
| 31-9095               | Pharmacy Aides  | 1,147          | 1,101          | -46                  | -4.0%        | -23             | 67            | 128           | 172           | \$14.51                 |
| 31-9096               | Veterinary Assistants and Laboratory Animal Caretakers                    | 3,280          | 3,360          | 80                   | 2.4%         | 40              | 194           | 446           | 680           | \$14.35                 |
| 31-9097               | Phlebotomists   | 5,435          | 5,518          | 83                   | 1.5%         | 42              | 266           | 508           | 816           | \$17.53                 |
| 31-9099               | Healthcare Support Workers, All Other                                     | 1,294          | 1,296          | 2                    | 0.2%         | 1               | 73            | 110           | 184           | \$19.24                 |
| <b>33-0000</b>        | <b>Protective Service Occupations</b>                                     | <b>113,933</b> | <b>113,792</b> | <b>-141</b>          | <b>-0.1%</b> | <b>-70</b>      | <b>5,696</b>  | <b>7,086</b>  | <b>12,712</b> | <b>\$22.69</b>          |
| 33-1011               | First-Line Supervisors of Correctional Officers                           | 589            | 584            | -5                   | -0.8%        | -2              | 22            | 28            | 48            | \$35.62                 |
| 33-1012               | First-Line Supervisors of Police and Detectives                           | 3,750          | 3,732          | -18                  | -0.5%        | -9              | 91            | 158           | 240           | \$45.90                 |
| 33-1021               | First-Line Supervisors of Firefighting and Prevention Workers             | 2,624          | 2,613          | -11                  | -0.4%        | -6              | 86            | 105           | 185           | \$37.69                 |
| 33-1091               | First-Line Supervisors of Security Workers                                | 1,463          | 1,492          | 29                   | 2.0%         | 14              | 56            | 88            | 158           | \$22.90                 |
| 33-1099               | First-Line Supervisors of Protective Service Workers, All Other           | 660            | 672            | 12                   | 1.8%         | 6               | 25            | 40            | 71            | \$28.85                 |
| 33-2011               | Firefighters  | 19,050         | 18,978         | -72                  | -0.4%        | -36             | 500           | 1,019         | 1,483         | \$23.99                 |
| 33-2021               | Fire Inspectors and Investigators   | 636            | 635            | -1                   | -0.2%        | 0               | 26            | 32            | 58            | \$46.60                 |
| 33-3011               | Bailiffs  | 1,675          | 1,650          | -25                  | -1.5%        | -12             | 153           | 66            | 207           | \$22.64                 |
| 33-3012               | Correctional Officers and Jailers   | 13,509         | 13,277         | -232                 | -1.7%        | -116            | 474           | 768           | 1,126         | \$24.51                 |
| 33-3021               | Detectives and Criminal Investigators                                     | 2,190          | 2,192          | 2                    | 0.1%         | 1               | 71            | 103           | 175           | \$36.67                 |
| 33-3031               | Fish and Game Wardens   | 164            | 166            | 2                    | 1.2%         | 1               | 10            | 8             | 19            | \$34.77                 |
| 33-3051               | Police and Sheriff's Patrol Officers                                      | 24,290         | 24,183         | -107                 | -0.4%        | -54             | 725           | 1,244         | 1,915         | \$34.18                 |
| 33-9011               | Animal Control Workers  | 303            | 300            | -3                   | -1.0%        | -2              | 8             | 16            | 22            | \$18.03                 |
| 33-9021               | Private Detectives and Investigators                                      | 2,059          | 2,046          | -13                  | -0.6%        | -6              | 71            | 118           | 183           | \$23.88                 |
| 33-9031               | Gambling Surveillance Officers and Gambling Investigators                 | 254            | 258            | 4                    | 1.6%         | 2               | 16            | 20            | 38            | \$23.36                 |
| 33-9032               | Security Guards   | 29,909         | 30,045         | 136                  | 0.5%         | 68              | 1,807         | 2,316         | 4,191         | \$14.21                 |
| 33-9091               | Crossing Guards and Flaggers  | 2,970          | 2,997          | 27                   | 0.9%         | 14              | 491           | 152           | 657           | \$13.51                 |
| 33-9092               | Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers | 4,596          | 4,675          | 79                   | 1.7%         | 40              | 684           | 530           | 1,254         | \$10.60                 |
| 33-9093               | Transportation Security Screeners   | 712            | 714            | 2                    | 0.3%         | 1               | 30            | 36            | 67            | \$23.49                 |
| 33-9094               | School Bus Monitors   | 418            | 427            | 9                    | 2.2%         | 4               | 70            | 16            | 90            | \$13.90                 |
| 33-9099               | Protective Service Workers, All Other                                     | 1,786          | 1,840          | 54                   | 3.0%         | 27              | 268           | 208           | 503           | \$16.64                 |

## Ohio Occupational Employment\* Projections Report, 2022-2024

| SOC Code <sup>1</sup> | Occupational Title**   | Employment     |                | Change in Employment |             | Annual Openings |               |               |               | Median Wage***<br>May 2022 |
|-----------------------|--|----------------|----------------|----------------------|-------------|-----------------|---------------|---------------|---------------|----------------------------|
|                       |  | 2022 Annual    | 2024 Projected | 2022-2024            | Percent     | Growth          | Exits         | Transfers     | Total         |                            |
| <b>35-0000</b>        | <b>Food Preparation and Serving Related Occupations</b>                  | <b>446,435</b> | <b>448,073</b> | <b>1,638</b>         | <b>0.4%</b> | <b>819</b>      | <b>37,902</b> | <b>44,742</b> | <b>83,463</b> | <b>\$13.04</b>             |
| 35-1011               | Chefs and Head Cooks   | 2,613          | 2,667          | 54                   | 2.1%        | 27              | 92            | 259           | 378           | \$21.46                    |
| 35-1012               | First-Line Supervisors of Food Preparation and Serving Workers           | 43,187         | 43,552         | 365                  | 0.8%        | 182             | 2,188         | 4,586         | 6,956         | \$16.80                    |
| 35-2011               | Cooks, Fast Food   | 29,354         | 28,402         | -952                 | -3.2%       | -476            | 1,993         | 2,438         | 3,955         | \$12.48                    |
| 35-2012               | Cooks, Institution and Cafeteria   | 23,635         | 23,306         | -329                 | -1.4%       | -164            | 1,620         | 1,982         | 3,438         | \$16.01                    |
| 35-2013               | Cooks, Private Household   | 725            | 690            | -35                  | -4.8%       | -18             | 49            | 60            | 91            | \$18.54 <sup>+</sup>       |
| 35-2014               | Cooks, Restaurant  | 49,737         | 52,346         | 2,609                | 5.2%        | 1,304           | 3,523         | 4,310         | 9,137         | \$14.19                    |
| 35-2015               | Cooks, Short Order   | 6,607          | 6,551          | -56                  | -0.8%       | -28             | 454           | 556           | 982           | \$11.27                    |
| 35-2019               | Cooks, All Other   | 198            | 198            | 0                    | 0.0%        | 0               | 14            | 16            | 30            | \$14.71                    |
| 35-2021               | Food Preparation Workers   | 22,424         | 22,263         | -161                 | -0.7%       | -80             | 1,998         | 1,898         | 3,816         | \$12.65                    |
| 35-3011               | Bartenders   | 23,719         | 23,516         | -203                 | -0.9%       | -102            | 1,267         | 2,786         | 3,951         | \$11.26                    |
| 35-3023               | Fast Food and Counter Workers  | 124,242        | 124,048        | -194                 | -0.2%       | -97             | 13,461        | 13,376        | 26,740        | \$11.44                    |
| 35-3031               | Waiters and Waitresses   | 67,066         | 67,442         | 376                  | 0.6%        | 188             | 5,690         | 7,944         | 13,822        | \$11.25                    |
| 35-3041               | Food Servers, Nonrestaurant  | 14,354         | 14,117         | -237                 | -1.7%       | -118            | 1,174         | 1,086         | 2,142         | \$13.33                    |
| 35-9011               | Dining Room and Cafeteria Attendants and Bartender Helpers               | 9,102          | 9,215          | 113                  | 1.2%        | 56              | 896           | 772           | 1,724         | \$11.43                    |
| 35-9021               | Dishwashers  | 12,819         | 12,879         | 60                   | 0.5%        | 30              | 1,150         | 1,030         | 2,210         | \$11.61                    |
| 35-9031               | Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop                 | 12,325         | 12,492         | 167                  | 1.4%        | 84              | 1,688         | 1,296         | 3,068         | \$10.70                    |
| 35-9099               | Food Preparation and Serving Related Workers, All Other                  | 4,328          | 4,389          | 61                   | 1.4%        | 30              | 646           | 348           | 1,024         | \$11.56                    |
| <b>37-0000</b>        | <b>Building and Grounds Cleaning and Maintenance Occupations</b>         | <b>170,688</b> | <b>174,365</b> | <b>3,677</b>         | <b>2.2%</b> | <b>1,838</b>    | <b>10,757</b> | <b>12,518</b> | <b>25,113</b> | <b>\$14.77</b>             |
| 37-1011               | First-Line Supervisors of Housekeeping and Janitorial Workers            | 7,515          | 7,640          | 125                  | 1.7%        | 62              | 379           | 488           | 929           | \$20.67                    |
| 37-1012               | FL Sup of Landscaping, Lawn Service, and Groundskeeping Workers          | 6,007          | 6,279          | 272                  | 4.5%        | 136             | 212           | 424           | 772           | \$24.14                    |
| 37-2011               | Janitors and Cleaners, except Maids and Housekeeping Cleaners            | 75,955         | 77,460         | 1,505                | 2.0%        | 752             | 5,328         | 5,384         | 11,464        | \$14.39                    |
| 37-2012               | Maids and Housekeeping Cleaners  | 35,186         | 34,984         | -202                 | -0.6%       | -101            | 2,642         | 2,284         | 4,825         | \$13.18                    |
| 37-3011               | Landscaping and Groundskeeping Workers                                   | 42,809         | 44,628         | 1,819                | 4.2%        | 910             | 2,087         | 3,605         | 6,602         | \$16.61                    |
| 37-3012               | Pesticide Handlers, Sprayers, and Applicators, Vegetation                | 622            | 638            | 16                   | 2.6%        | 8               | 19            | 62            | 89            | \$21.88                    |
| <b>39-0000</b>        | <b>Personal Care and Service Occupations</b>                             | <b>120,063</b> | <b>120,731</b> | <b>668</b>           | <b>0.6%</b> | <b>334</b>      | <b>8,396</b>  | <b>12,002</b> | <b>20,732</b> | <b>\$13.65</b>             |
| 39-1014               | FL Sup of Entertainment and Recreation Workers, except Gambling Services | 3,024          | 3,067          | 43                   | 1.4%        | 22              | 145           | 226           | 393           | \$18.21                    |
| 39-1022               | First-Line Supervisors of Personal Service Workers                       | 3,841          | 3,814          | -27                  | -0.7%       | -14             | 182           | 284           | 452           | \$18.60                    |
| 39-2011               | Animal Trainers  | 731            | 760            | 29                   | 4.0%        | 14              | 40            | 74            | 128           | \$14.10                    |
| 39-2021               | Animal Caretakers  | 10,280         | 10,646         | 366                  | 3.6%        | 183             | 726           | 1,206         | 2,115         | \$13.23                    |
| 39-3011               | Gambling Dealers   | 768            | 782            | 14                   | 1.8%        | 7               | 40            | 91            | 138           | \$10.37                    |
| 39-3031               | Ushers, Lobby Attendants, and Ticket Takers                              | 1,950          | 1,934          | -16                  | -0.8%       | -8              | 278           | 272           | 542           | \$13.05                    |
| 39-3091               | Amusement and Recreation Attendants                                      | 9,163          | 9,742          | 579                  | 6.3%        | 290             | 1,061         | 1,442         | 2,793         | \$10.81                    |
| 39-3093               | Locker Room, Coatroom, and Dressing Room Attendants                      | 220            | 236            | 16                   | 7.3%        | 8               | 26            | 35            | 69            | \$14.20                    |
| 39-4011               | Embalmers  | 173            | 169            | -4                   | -2.3%       | -2              | 10            | 17            | 25            | \$29.58                    |
| 39-4012               | Crematory Operators  | 113            | 111            | -2                   | -1.8%       | -1              | 7             | 11            | 17            | \$21.70                    |
| 39-4021               | Funeral Attendants   | 1,564          | 1,545          | -19                  | -1.2%       | -10             | 96            | 153           | 239           | \$14.50                    |
| 39-4031               | Morticians, Undertakers, and Funeral Arrangers                           | 1,671          | 1,655          | -16                  | -1.0%       | -8              | 92            | 143           | 227           | \$31.25                    |
| 39-5012               | Hairdressers, Hairstylists, and Cosmetologists                           | 26,427         | 26,129         | -298                 | -1.1%       | -149            | 1,624         | 1,994         | 3,469         | \$14.45                    |
| 39-5092               | Manicurists and Pedicurists  | 4,146          | 4,158          | 12                   | 0.3%        | 6               | 224           | 298           | 528           | \$14.43                    |
| 39-5093               | Shampooers   | 351            | 344            | -7                   | -2.0%       | -4              | 24            | 28            | 48            | \$12.00                    |
| 39-5094               | Skincare Specialists   | 1,991          | 2,002          | 11                   | 0.6%        | 6               | 110           | 168           | 284           | \$20.62                    |
| 39-6011               | Baggage Porters and Bellhops   | 115            | 118            | 3                    | 2.6%        | 2               | 6             | 12            | 20            | \$10.41                    |
| 39-6012               | Concierges   | 561            | 557            | -4                   | -0.7%       | -2              | 32            | 56            | 86            | \$14.27                    |
| 39-7010               | Tour and Travel Guides   | 639            | 656            | 17                   | 2.7%        | 8               | 50            | 74            | 132           | \$12.56                    |
| 39-9011               | Childcare Workers  | 27,573         | 27,314         | -259                 | -0.9%       | -130            | 2,010         | 2,581         | 4,461         | \$13.15                    |
| 39-9031               | Exercise Trainers and Group Fitness Instructors                          | 8,755          | 9,174          | 419                  | 4.8%        | 210             | 566           | 1,030         | 1,806         | \$16.87                    |
| 39-9032               | Recreation Workers   | 9,945          | 9,778          | -167                 | -1.7%       | -84             | 724           | 1,254         | 1,894         | \$12.94                    |

## Ohio Occupational Employment\* Projections Report, 2022-2024

| SOC Code <sup>1</sup> | Occupational Title**   | Employment     |                | Change in Employment |              | Annual Openings |               |               |               | Median Wage***<br>May 2022 |
|-----------------------|--|----------------|----------------|----------------------|--------------|-----------------|---------------|---------------|---------------|----------------------------|
|                       |  | 2022 Annual    | 2024 Projected | 2022-2024            | Percent      | Growth          | Exits         | Transfers     | Total         |                            |
| 39-9041               | Residential Advisors   | 2,784          | 2,752          | -32                  | -1.1%        | -16             | 158           | 317           | 459           | \$15.46                    |
| <b>41-0000</b>        | <b>Sales and Related Occupations</b>   | <b>517,340</b> | <b>519,665</b> | <b>2,325</b>         | <b>0.4%</b>  | <b>1,162</b>    | <b>30,187</b> | <b>39,199</b> | <b>70,548</b> | <b>\$15.50</b>             |
| 41-1011               | First-Line Supervisors of Retail Sales Workers                                     | 50,760         | 50,867         | 107                  | 0.2%         | 54              | 2,101         | 3,471         | 5,626         | \$19.84                    |
| 41-1012               | First-Line Supervisors of Non-Retail Sales Workers                                 | 15,020         | 15,056         | 36                   | 0.2%         | 18              | 518           | 861           | 1,397         | \$41.24                    |
| 41-2011               | Cashiers   | 117,470        | 116,154        | -1,316               | -1.1%        | -658            | 11,220        | 10,812        | 21,374        | \$12.21                    |
| 41-2012               | Gambling Change Persons and Booth Cashiers   | 199            | 203            | 4                    | 2.0%         | 2               | 20            | 18            | 40            | \$14.41                    |
| 41-2021               | Counter and Rental Clerks  | 10,456         | 10,522         | 66                   | 0.6%         | 33              | 612           | 670           | 1,315         | \$15.90                    |
| 41-2022               | Parts Salespersons   | 9,495          | 9,539          | 44                   | 0.5%         | 22              | 477           | 720           | 1,219         | \$16.67                    |
| 41-2031               | Retail Salespersons  | 126,616        | 128,200        | 1,584                | 1.3%         | 792             | 8,187         | 10,324        | 19,303        | \$13.93                    |
| 41-3011               | Advertising Sales Agents   | 3,396          | 3,268          | -128                 | -3.8%        | -64             | 123           | 279           | 338           | \$22.66                    |
| 41-3021               | Insurance Sales Agents   | 30,651         | 30,875         | 224                  | 0.7%         | 112             | 1,222         | 1,593         | 2,927         | \$28.12                    |
| 41-3031               | Securities, Commodities, and Financial Services Sales Agents                       | 11,834         | 12,116         | 282                  | 2.4%         | 141             | 328           | 693           | 1,162         | \$29.42                    |
| 41-3041               | Travel Agents  | 1,232          | 1,177          | -55                  | -4.5%        | -28             | 80            | 76            | 128           | \$17.34                    |
| 41-3091               | Sales Representatives, Services, ex. Advertising, Insurance, Financial, and Travel | 33,583         | 34,238         | 655                  | 2.0%         | 328             | 960           | 2,685         | 3,973         | \$28.55                    |
| 41-4011               | Sales Rep., Wholesale & Mfg, Tech./Sci. Prod.                                      | 4,639          | 4,841          | 202                  | 4.4%         | 101             | 163           | 314           | 578           | \$48.22                    |
| 41-4012               | Sales Rep., Wholesale/Mfg, ex. Tech./Sci. Prod.                                    | 69,343         | 70,487         | 1,144                | 1.6%         | 572             | 2,402         | 4,622         | 7,596         | \$31.29                    |
| 41-9011               | Demonstrators and Product Promoters  | 1,031          | 1,043          | 12                   | 1.2%         | 6               | 118           | 69            | 193           | \$17.76                    |
| 41-9021               | Real Estate Brokers  | 1,275          | 1,295          | 20                   | 1.6%         | 10              | 63            | 52            | 125           | \$30.57                    |
| 41-9022               | Real Estate Sales Agents   | 11,817         | 11,982         | 165                  | 1.4%         | 82              | 585           | 484           | 1,151         | \$17.27                    |
| 41-9031               | Sales Engineers  | 1,787          | 1,817          | 30                   | 1.7%         | 15              | 50            | 138           | 203           | \$45.32                    |
| 41-9041               | Telemarketers  | 7,192          | 6,317          | -875                 | -12.2%       | -438            | 354           | 635           | 551           | \$13.76                    |
| 41-9091               | Door-to-Door Sales Workers, News and Street Vendors, and Related Workers           | 3,083          | 3,038          | -45                  | -1.5%        | -22             | 233           | 160           | 371           | \$12.36                    |
| 41-9099               | Sales and Related Workers, All Other   | 6,372          | 6,539          | 167                  | 2.6%         | 84              | 358           | 517           | 959           | \$16.59                    |
| <b>43-0000</b>        | <b>Office and Administrative Support Occupations</b>                               | <b>707,870</b> | <b>702,968</b> | <b>-4,902</b>        | <b>-0.7%</b> | <b>-2,451</b>   | <b>38,260</b> | <b>47,378</b> | <b>83,187</b> | <b>\$18.92</b>             |
| 43-1011               | First-Line Supervisors of Office and Administrative Support Workers                | 48,226         | 48,179         | -47                  | -0.1%        | -24             | 2,101         | 3,090         | 5,167         | \$28.64                    |
| 43-2011               | Switchboard Operators, Including Answering Service                                 | 1,105          | 1,043          | -62                  | -5.6%        | -31             | 62            | 66            | 97            | \$15.89                    |
| 43-2021               | Telephone Operators  | 218            | 205            | -13                  | -6.0%        | -6              | 14            | 15            | 23            | \$15.85                    |
| 43-3011               | Bill and Account Collectors  | 7,887          | 7,490          | -397                 | -5.0%        | -198            | 354           | 534           | 690           | \$17.94                    |
| 43-3021               | Billing and Posting Clerks   | 18,435         | 18,429         | -6                   | 0.0%         | -3              | 888           | 1,214         | 2,099         | \$18.82                    |
| 43-3031               | Bookkeeping, Accounting, and Auditing Clerks                                       | 67,797         | 67,406         | -391                 | -0.6%        | -196            | 4,528         | 3,788         | 8,120         | \$21.23                    |
| 43-3041               | Gambling Cage Workers  | 430            | 439            | 9                    | 2.1%         | 4               | 17            | 32            | 53            | \$13.05                    |
| 43-3051               | Payroll and Timekeeping Clerks   | 5,373          | 5,203          | -170                 | -3.2%        | -85             | 267           | 321           | 503           | \$22.21                    |
| 43-3061               | Procurement Clerks   | 1,928          | 1,915          | -13                  | -0.7%        | -6              | 60            | 134           | 188           | \$20.35                    |
| 43-3071               | Tellers  | 14,893         | 14,610         | -283                 | -1.9%        | -142            | 679           | 957           | 1,494         | \$17.27                    |
| 43-3099               | Financial Clerks, All Other  | 2,103          | 2,154          | 51                   | 2.4%         | 26              | 84            | 156           | 266           | \$22.11                    |
| 43-4011               | Brokerage Clerks   | 1,641          | 1,645          | 4                    | 0.2%         | 2               | 80            | 113           | 195           | \$25.19                    |
| 43-4021               | Correspondence Clerks  | 507            | 471            | -36                  | -7.1%        | -18             | 24            | 34            | 40            | \$18.06                    |
| 43-4031               | Court, Municipal, and License Clerks   | 9,405          | 9,362          | -43                  | -0.5%        | -22             | 520           | 544           | 1,042         | \$18.89                    |
| 43-4041               | Credit Authorizers, Checkers, and Clerks   | 573            | 565            | -8                   | -1.4%        | -4              | 24            | 34            | 54            | \$22.46                    |
| 43-4051               | Customer Service Representatives   | 117,825        | 117,385        | -440                 | -0.4%        | -220            | 6,482         | 10,044        | 16,306        | \$18.30                    |
| 43-4061               | Eligibility Interviewers, Government Programs                                      | 4,511          | 4,508          | -3                   | -0.1%        | -2              | 193           | 250           | 441           | \$22.21                    |
| 43-4071               | File Clerks  | 2,888          | 2,829          | -59                  | -2.0%        | -30             | 172           | 189           | 331           | \$18.65                    |
| 43-4081               | Hotel, Motel, and Resort Desk Clerks   | 6,203          | 6,258          | 55                   | 0.9%         | 28              | 428           | 686           | 1,142         | \$13.12                    |
| 43-4111               | Interviewers, except Eligibility and Loan  | 7,475          | 7,307          | -168                 | -2.2%        | -84             | 416           | 555           | 887           | \$18.00                    |
| 43-4121               | Library Assistants, Clerical   | 3,604          | 3,509          | -95                  | -2.6%        | -48             | 359           | 238           | 549           | \$13.91                    |
| 43-4131               | Loan Interviewers and Clerks   | 9,294          | 9,347          | 53                   | 0.6%         | 26              | 316           | 572           | 914           | \$21.86                    |
| 43-4141               | New Accounts Clerks  | 1,712          | 1,678          | -34                  | -2.0%        | -17             | 60            | 130           | 173           | \$21.80                    |
| 43-4151               | Order Clerks   | 3,767          | 3,749          | -18                  | -0.5%        | -9              | 180           | 260           | 431           | \$18.47                    |

## Ohio Occupational Employment\* Projections Report, 2022-2024

| SOC Code <sup>1</sup> | Occupational Title**  | Employment     |                | Change in Employment |             | Annual Openings |              |               |               | Median Wage***<br>May 2022 |
|-----------------------|---|----------------|----------------|----------------------|-------------|-----------------|--------------|---------------|---------------|----------------------------|
|                       |   | 2022 Annual    | 2024 Projected | 2022-2024            | Percent     | Growth          | Exits        | Transfers     | Total         |                            |
| 43-4161               | Human Resources Assistants, except Payroll and Timekeeping                      | 3,540          | 3,533          | -7                   | -0.2%       | -4              | 172          | 228           | 396           | \$21.54                    |
| 43-4171               | Receptionists and Information Clerks  | 38,641         | 38,416         | -225                 | -0.6%       | -112            | 2,394        | 2,868         | 5,150         | \$14.79                    |
| 43-4181               | Reservation and Transportation Ticket Agents and Travel Clerks                  | 1,627          | 1,546          | -81                  | -5.0%       | -40             | 73           | 115           | 148           | \$16.70                    |
| 43-4199               | Information and Record Clerks, All Other  | 2,829          | 2,846          | 17                   | 0.6%        | 8               | 138          | 195           | 341           | \$22.20                    |
| 43-5011               | Cargo and Freight Agents  | 2,736          | 2,843          | 107                  | 3.9%        | 54              | 122          | 190           | 366           | \$19.83                    |
| 43-5021               | Couriers and Messengers   | 4,872          | 4,916          | 44                   | 0.9%        | 22              | 231          | 293           | 546           | \$15.20                    |
| 43-5031               | Public Safety Telecommunicators   | 4,662          | 4,618          | -44                  | -0.9%       | -22             | 195          | 288           | 461           | \$23.52                    |
| 43-5032               | Dispatchers, except Police, Fire, and Ambulance                                 | 8,034          | 8,141          | 107                  | 1.3%        | 54              | 335          | 490           | 879           | \$21.13                    |
| 43-5041               | Meter Readers, Utilities  | 762            | 720            | -42                  | -5.5%       | -21             | 26           | 34            | 39            | \$25.37                    |
| 43-5051               | Postal Service Clerks   | 2,588          | 2,566          | -22                  | -0.9%       | -11             | 132          | 102           | 223           | \$27.05                    |
| 43-5052               | Postal Service Mail Carriers  | 12,429         | 12,323         | -106                 | -0.9%       | -53             | 477          | 480           | 904           | \$26.75                    |
| 43-5053               | Postal Service Mail Sorters, Processors, and Processing Machine Operators       | 4,054          | 3,979          | -75                  | -1.9%       | -38             | 233          | 154           | 349           | \$23.62                    |
| 43-5061               | Production, Planning, and Expediting Clerks                                     | 17,122         | 17,624         | 502                  | 2.9%        | 251             | 683          | 1,240         | 2,174         | \$24.02                    |
| 43-5071               | Shipping, Receiving, and Inventory Clerks                                       | 41,102         | 41,363         | 261                  | 0.6%        | 130             | 1,709        | 2,826         | 4,665         | \$18.16                    |
| 43-5111               | Weighers, Measurers, Checkers, and Samplers, Recordkeeping                      | 2,617          | 2,732          | 115                  | 4.4%        | 58              | 121          | 184           | 363           | \$18.20                    |
| 43-6011               | Executive Secretaries and Executive Administrative Assistants                   | 11,922         | 11,414         | -508                 | -4.3%       | -254            | 556          | 787           | 1,089         | \$29.92                    |
| 43-6012               | Legal Secretaries and Administrative Assistants                                 | 4,535          | 4,327          | -208                 | -4.6%       | -104            | 255          | 293           | 444           | \$20.96                    |
| 43-6013               | Medical Secretaries and Administrative Assistants                               | 24,659         | 24,731         | 72                   | 0.3%        | 36              | 1,407        | 1,435         | 2,878         | \$18.15                    |
| 43-6014               | Secretaries and Administrative Assistants, except Legal, Medical, and Executive | 65,358         | 63,810         | -1,548               | -2.4%       | -774            | 3,752        | 3,848         | 6,826         | \$18.61                    |
| 43-9021               | Data Entry Keyers   | 6,093          | 5,792          | -301                 | -4.9%       | -150            | 316          | 423           | 589           | \$17.50                    |
| 43-9022               | Word Processors and Typists   | 641            | 585            | -56                  | -8.7%       | -28             | 48           | 32            | 52            | \$20.75                    |
| 43-9031               | Desktop Publishers  | 156            | 154            | -2                   | -1.3%       | -1              | 6            | 12            | 17            | \$20.08                    |
| 43-9041               | Insurance Claims and Policy Processing Clerks                                   | 10,841         | 10,743         | -98                  | -0.9%       | -49             | 444          | 668           | 1,063         | \$22.66                    |
| 43-9051               | Mail Clerks and Mail Machine Operators, except Postal Service                   | 3,195          | 3,094          | -101                 | -3.2%       | -50             | 206          | 206           | 362           | \$16.15                    |
| 43-9061               | Office Clerks, General  | 90,336         | 89,747         | -589                 | -0.7%       | -294            | 5,680        | 5,666         | 11,052        | \$18.29                    |
| 43-9071               | Office Machine Operators, except Computer                                       | 1,424          | 1,407          | -17                  | -1.2%       | -8              | 92           | 116           | 200           | \$18.29                    |
| 43-9081               | Proofreaders and Copy Markers   | 241            | 246            | 5                    | 2.1%        | 2               | 18           | 16            | 36            | \$16.95                    |
| 43-9111               | Statistical Assistants  | 181            | 182            | 1                    | 0.6%        | 0               | 4            | 15            | 19            | \$30.26                    |
| 43-9199               | Office and Administrative Support Workers, All Other                            | 2,800          | 2,811          | 11                   | 0.4%        | 6               | 120          | 210           | 336           | \$15.19                    |
| <b>45-0000</b>        | <b>Farming, Fishing, and Forestry Occupations</b>                               | <b>15,887</b>  | <b>16,078</b>  | <b>191</b>           | <b>1.2%</b> | <b>96</b>       | <b>820</b>   | <b>1,726</b>  | <b>2,642</b>  | <b>\$17.81</b>             |
| 45-1011               | First-Line Supervisors of Farming, Fishing, and Forestry Workers                | 719            | 733            | 14                   | 1.9%        | 7               | 34           | 70            | 111           | \$24.48                    |
| 45-2011               | Agricultural Inspectors   | 205            | 206            | 1                    | 0.5%        | 0               | 10           | 28            | 38            | \$29.87                    |
| 45-2041               | Graders and Sorters, Agricultural Products                                      | 504            | 508            | 4                    | 0.8%        | 2               | 26           | 50            | 78            | \$18.41                    |
| 45-2091               | Agricultural Equipment Operators  | 1,484          | 1,519          | 35                   | 2.4%        | 18              | 78           | 162           | 258           | \$21.00                    |
| 45-2092               | Farmworkers and Laborers, Crop, Nursery, and Greenhouse                         | 10,432         | 10,568         | 136                  | 1.3%        | 68              | 546          | 1,137         | 1,751         | \$16.47                    |
| 45-2093               | Farmworkers, Farm, Ranch, and Aquacultural Animals                              | 1,389          | 1,371          | -18                  | -1.3%       | -9              | 72           | 150           | 213           | \$14.58                    |
| 45-4021               | Fallers   | 114            | 115            | 1                    | 0.9%        | 0               | 5            | 12            | 17            | \$23.88                    |
| 45-4022               | Logging Equipment Operators   | 432            | 447            | 15                   | 3.5%        | 8               | 20           | 49            | 77            | \$19.05                    |
| 45-4023               | Log Graders and Scalers   | 110            | 113            | 3                    | 2.7%        | 2               | 5            | 12            | 19            | \$17.63                    |
| 45-4029               | Logging Workers, All Other  | 155            | 157            | 2                    | 1.3%        | 1               | 7            | 18            | 26            | \$14.67                    |
| <b>47-0000</b>        | <b>Construction and Extraction Occupations</b>                                  | <b>194,406</b> | <b>200,552</b> | <b>6,146</b>         | <b>3.2%</b> | <b>3,073</b>    | <b>6,873</b> | <b>12,476</b> | <b>22,422</b> | <b>\$27.18</b>             |
| 47-1011               | First-Line Supervisors of Construction Trades and Extraction Workers            | 16,671         | 17,262         | 591                  | 3.5%        | 296             | 553          | 1,023         | 1,872         | \$34.62                    |
| 47-2011               | Boilermakers  | 903            | 909            | 6                    | 0.7%        | 3               | 22           | 56            | 81            | \$43.17                    |
| 47-2021               | Brickmasons and Blockmasons   | 2,803          | 2,894          | 91                   | 3.2%        | 46              | 112          | 158           | 316           | \$30.21                    |
| 47-2031               | Carpenters  | 23,332         | 23,913         | 581                  | 2.5%        | 290             | 814          | 1,384         | 2,488         | \$26.22                    |
| 47-2041               | Carpet Installers   | 697            | 677            | -20                  | -2.9%       | -10             | 22           | 37            | 49            | \$23.63                    |
| 47-2042               | Floor Layers, except Carpet, Wood, and Hard Tiles                               | 935            | 964            | 29                   | 3.1%        | 14              | 31           | 51            | 96            | \$23.80                    |
| 47-2044               | Tile and Stone Setters  | 1,060          | 1,097          | 37                   | 3.5%        | 18              | 35           | 58            | 111           | \$22.67                    |

## Ohio Occupational Employment\* Projections Report, 2022-2024

| SOC Code <sup>1</sup> | Occupational Title**  | Employment     |                | Change in Employment |             | Annual Openings |              |               |               | Median Wage***<br>May 2022 |
|-----------------------|---|----------------|----------------|----------------------|-------------|-----------------|--------------|---------------|---------------|----------------------------|
|                       |   | 2022 Annual    | 2024 Projected | 2022-2024            | Percent     | Growth          | Exits        | Transfers     | Total         |                            |
| 47-2051               | Cement Masons and Concrete Finishers  | 3,916          | 4,101          | 185                  | 4.7%        | 92              | 104          | 250           | 446           | \$23.82                    |
| 47-2061               | Construction Laborers   | 40,685         | 42,576         | 1,891                | 4.6%        | 946             | 1,478        | 2,582         | 5,006         | \$22.86                    |
| 47-2071               | Paving, Surfacing, and Tamping Equipment Operators                            | 1,045          | 1,110          | 65                   | 6.2%        | 32              | 38           | 71            | 141           | \$31.09                    |
| 47-2073               | Operating Engineers and Other Construction Equipment Operators                | 12,263         | 12,690         | 427                  | 3.5%        | 214             | 444          | 824           | 1,482         | \$28.46                    |
| 47-2081               | Drywall and Ceiling Tile Installers   | 1,021          | 1,033          | 12                   | 1.2%        | 6               | 28           | 54            | 88            | \$24.26                    |
| 47-2082               | Tapers  | 146            | 149            | 3                    | 2.1%        | 2               | 4            | 8             | 14            | \$29.94                    |
| 47-2111               | Electricians  | 26,359         | 27,148         | 789                  | 3.0%        | 394             | 914          | 1,808         | 3,116         | \$28.93                    |
| 47-2121               | Glaziers  | 1,655          | 1,750          | 95                   | 5.7%        | 48              | 58           | 124           | 230           | \$24.70                    |
| 47-2131               | Insulation Workers, Floor, Ceiling, and Wall                                  | 1,473          | 1,497          | 24                   | 1.6%        | 12              | 42           | 89            | 143           | \$20.79                    |
| 47-2132               | Insulation Workers, Mechanical  | 761            | 780            | 19                   | 2.5%        | 10              | 22           | 46            | 78            | \$27.89                    |
| 47-2141               | Painters, Construction and Maintenance  | 9,003          | 9,137          | 134                  | 1.5%        | 67              | 304          | 464           | 835           | \$22.50                    |
| 47-2142               | Paperhangers  | 203            | 200            | -3                   | -1.5%       | -2              | 7            | 10            | 15            | \$13.88                    |
| 47-2151               | Pipelayers  | 567            | 575            | 8                    | 1.4%        | 4               | 16           | 38            | 58            | \$24.36                    |
| 47-2152               | Plumbers, Pipefitters, and Steamfitters                                       | 13,980         | 14,331         | 351                  | 2.5%        | 176             | 470          | 956           | 1,602         | \$30.26                    |
| 47-2161               | Plasterers and Stucco Masons  | 327            | 343            | 16                   | 4.9%        | 8               | 12           | 17            | 37            | \$26.06                    |
| 47-2181               | Roofers   | 5,229          | 5,554          | 325                  | 6.2%        | 162             | 159          | 338           | 659           | \$22.79                    |
| 47-2211               | Sheet Metal Workers   | 3,679          | 3,764          | 85                   | 2.3%        | 42              | 116          | 244           | 402           | \$31.14                    |
| 47-2221               | Structural Iron and Steel Workers   | 2,993          | 3,163          | 170                  | 5.7%        | 85              | 91           | 223           | 399           | \$31.85                    |
| 47-3011               | Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters   | 471            | 488            | 17                   | 3.6%        | 8               | 16           | 42            | 66            | \$21.46                    |
| 47-3012               | Helpers--Carpenters   | 398            | 412            | 14                   | 3.5%        | 7               | 14           | 35            | 56            | \$17.31                    |
| 47-3013               | Helpers--Electricians   | 1,380          | 1,406          | 26                   | 1.9%        | 13              | 47           | 120           | 180           | \$17.31                    |
| 47-3015               | Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters                  | 788            | 811            | 23                   | 2.9%        | 12              | 27           | 69            | 108           | \$17.04                    |
| 47-3019               | Helpers, Construction Trades, All Other                                       | 315            | 325            | 10                   | 3.2%        | 5               | 11           | 28            | 44            | \$20.84                    |
| 47-4011               | Construction and Building Inspectors  | 3,458          | 3,408          | -50                  | -1.4%       | -25             | 221          | 197           | 393           | \$30.62                    |
| 47-4021               | Elevator and Escalator Installers and Repairers                               | 907            | 934            | 27                   | 3.0%        | 14              | 25           | 56            | 95            | \$50.19                    |
| 47-4041               | Hazardous Materials Removal Workers   | 2,285          | 2,306          | 21                   | 0.9%        | 10              | 108          | 185           | 303           | \$22.01                    |
| 47-4051               | Highway Maintenance Workers   | 6,624          | 6,629          | 5                    | 0.1%        | 2               | 302          | 376           | 680           | \$22.06                    |
| 47-4071               | Septic Tank Servicers and Sewer Pipe Cleaners                                 | 1,405          | 1,422          | 17                   | 1.2%        | 8               | 56           | 99            | 163           | \$22.31                    |
| 47-4090               | Miscellaneous Construction and Related Workers                                | 887            | 904            | 17                   | 1.9%        | 8               | 36           | 62            | 106           | \$18.21                    |
| 47-5012               | Rotary Drill Operators, Oil and Gas   | 217            | 220            | 3                    | 1.4%        | 2               | 6            | 20            | 28            | \$28.93                    |
| 47-5013               | Service Unit Operators, Oil and Gas   | 353            | 370            | 17                   | 4.8%        | 8               | 9            | 32            | 49            | \$22.99                    |
| 47-5022               | Excavating and Loading Machine and Dragline Operators, Surface Mining         | 399            | 406            | 7                    | 1.8%        | 4               | 12           | 29            | 45            | \$23.69                    |
| 47-5023               | Earth Drillers, except Oil and Gas  | 425            | 432            | 7                    | 1.6%        | 4               | 14           | 30            | 48            | \$24.32                    |
| 47-5041               | Continuous Mining Machine Operators   | 153            | 157            | 4                    | 2.6%        | 2               | 6            | 14            | 22            | \$23.50                    |
| 47-5071               | Roustabouts, Oil and Gas  | 416            | 423            | 7                    | 1.7%        | 4               | 10           | 38            | 52            | \$15.00                    |
| <b>49-0000</b>        | <b>Installation, Maintenance, and Repair Occupations</b>                      | <b>217,166</b> | <b>220,083</b> | <b>2,917</b>         | <b>1.3%</b> | <b>1,458</b>    | <b>8,024</b> | <b>12,946</b> | <b>22,428</b> | <b>\$23.74</b>             |
| 49-1011               | First-Line Supervisors of Mechanics, Installers, and Repairers                | 17,267         | 17,435         | 168                  | 1.0%        | 84              | 650          | 963           | 1,697         | \$33.78                    |
| 49-2011               | Computer, Automated Teller, and Office Machine Repairers                      | 2,488          | 2,474          | -14                  | -0.6%       | -7              | 84           | 181           | 258           | \$18.33                    |
| 49-2021               | Radio, Cellular, and Tower Equipment Installers and Repairers                 | 847            | 859            | 12                   | 1.4%        | 6               | 32           | 64            | 102           | \$23.04                    |
| 49-2022               | Telecommunications Equipment Installers and Repairers, except Line Installers | 3,697          | 3,800          | 103                  | 2.8%        | 52              | 144          | 282           | 478           | \$29.82                    |
| 49-2091               | Avionics Technicians  | 368            | 375            | 7                    | 1.9%        | 4               | 12           | 15            | 31            | \$27.71                    |
| 49-2092               | Electric Motor, Power Tool, and Related Repairers                             | 324            | 325            | 1                    | 0.3%        | 0               | 9            | 17            | 26            | \$28.84                    |
| 49-2093               | Electrical and Electronics Installers and Repairers, Transportation Equipment | 290            | 292            | 2                    | 0.7%        | 1               | 9            | 18            | 28            | \$35.38                    |
| 49-2094               | Electrical and Electronics Repairers, Commercial and Industrial Equipment     | 1,481          | 1,537          | 56                   | 3.8%        | 28              | 46           | 92            | 166           | \$31.15                    |
| 49-2095               | Electrical and Electronics Repairers, Powerhouse, Substation, and Relay       | 607            | 589            | -18                  | -3.0%       | -9              | 18           | 36            | 45            | \$42.32                    |
| 49-2096               | Electronic Equipment Installers and Repairers, Motor Vehicles                 | 295            | 275            | -20                  | -6.8%       | -10             | 9            | 18            | 17            | \$20.55                    |
| 49-2097               | Audiovisual Equipment Installers and Repairers                                | 1,001          | 1,011          | 10                   | 1.0%        | 5               | 37           | 70            | 112           | \$18.79                    |
| 49-2098               | Security and Fire Alarm Systems Installers                                    | 2,354          | 2,398          | 44                   | 1.9%        | 22              | 85           | 169           | 276           | \$23.63                    |

## Ohio Occupational Employment\* Projections Report, 2022-2024

| SOC Code <sup>1</sup> | Occupational Title**   | Employment     |                | Change in Employment |              | Annual Openings |               |               |               | Median Wage***<br>May 2022 |
|-----------------------|--|----------------|----------------|----------------------|--------------|-----------------|---------------|---------------|---------------|----------------------------|
|                       |  | 2022 Annual    | 2024 Projected | 2022-2024            | Percent      | Growth          | Exits         | Transfers     | Total         |                            |
| 49-3011               | Aircraft Mechanics and Service Technicians   | 3,338          | 3,379          | 41                   | 1.2%         | 20              | 99            | 165           | 284           | \$33.87                    |
| 49-3021               | Automotive Body and Related Repairers  | 5,196          | 5,223          | 27                   | 0.5%         | 14              | 202           | 296           | 512           | \$21.61                    |
| 49-3022               | Automotive Glass Installers and Repairers  | 761            | 767            | 6                    | 0.8%         | 3               | 20            | 51            | 74            | \$23.36                    |
| 49-3023               | Automotive Service Technicians and Mechanics   | 28,598         | 28,447         | -151                 | -0.5%        | -76             | 984           | 1,808         | 2,716         | \$21.36                    |
| 49-3031               | Bus and Truck Mechanics and Diesel Engine Specialists  | 12,553         | 12,903         | 350                  | 2.8%         | 175             | 424           | 734           | 1,333         | \$24.02                    |
| 49-3041               | Farm Equipment Mechanics and Service Technicians   | 1,162          | 1,187          | 25                   | 2.2%         | 12              | 38            | 74            | 124           | \$22.14                    |
| 49-3042               | Mobile Heavy Equipment Mechanics, except Engines   | 4,279          | 4,374          | 95                   | 2.2%         | 48              | 140           | 274           | 462           | \$27.38                    |
| 49-3043               | Rail Car Repairers   | 744            | 753            | 9                    | 1.2%         | 4               | 24            | 48            | 76            | \$29.16                    |
| 49-3051               | Motorboat Mechanics and Service Technicians  | 414            | 428            | 14                   | 3.4%         | 7               | 17            | 27            | 51            | \$22.21                    |
| 49-3052               | Motorcycle Mechanics   | 477            | 483            | 6                    | 1.3%         | 3               | 19            | 31            | 53            | \$18.66                    |
| 49-3053               | Outdoor Power Equipment and Other Small Engine Mechanics   | 1,478          | 1,540          | 62                   | 4.2%         | 31              | 60            | 98            | 189           | \$20.38                    |
| 49-3091               | Bicycle Repairers  | 382            | 387            | 5                    | 1.3%         | 2               | 13            | 30            | 45            | \$14.10                    |
| 49-3092               | Recreational Vehicle Service Technicians   | 478            | 494            | 16                   | 3.3%         | 8               | 16            | 38            | 62            | \$17.67                    |
| 49-3093               | Tire Repairers and Changers  | 2,695          | 2,711          | 16                   | 0.6%         | 8               | 92            | 210           | 310           | \$16.87                    |
| 49-9011               | Mechanical Door Repairers  | 1,057          | 1,087          | 30                   | 2.8%         | 15              | 30            | 54            | 99            | \$23.17                    |
| 49-9012               | Control and Valve Installers and Repairers, except Mechanical Door                               | 1,214          | 1,213          | -1                   | -0.1%        | 0               | 34            | 60            | 94            | \$36.48                    |
| 49-9021               | Heating, Air Conditioning, and Refrigeration Mechanics and Installers                            | 12,786         | 13,102         | 316                  | 2.5%         | 158             | 394           | 826           | 1,378         | \$24.31                    |
| 49-9031               | Home Appliance Repairers   | 1,151          | 1,138          | -13                  | -1.1%        | -6              | 46            | 70            | 110           | \$21.87                    |
| 49-9041               | Industrial Machinery Mechanics   | 18,376         | 19,164         | 788                  | 4.3%         | 394             | 665           | 968           | 2,027         | \$28.64                    |
| 49-9043               | Maintenance Workers, Machinery   | 1,872          | 1,951          | 79                   | 4.2%         | 40              | 92            | 109           | 241           | \$24.93                    |
| 49-9044               | Millwrights  | 2,765          | 2,845          | 80                   | 2.9%         | 40              | 94            | 150           | 284           | \$33.74                    |
| 49-9051               | Electrical Power-Line Installers and Repairers   | 3,940          | 3,819          | -121                 | -3.1%        | -60             | 89            | 232           | 261           | \$40.30                    |
| 49-9052               | Telecommunications Line Installers and Repairers   | 2,865          | 2,932          | 67                   | 2.3%         | 34              | 86            | 220           | 340           | \$22.96                    |
| 49-9062               | Medical Equipment Repairers  | 2,776          | 2,798          | 22                   | 0.8%         | 11              | 120           | 172           | 303           | \$29.36                    |
| 49-9063               | Musical Instrument Repairers and Tuners  | 238            | 236            | -2                   | -0.8%        | -1              | 10            | 14            | 23            | \$14.36                    |
| 49-9064               | Watch and Clock Repairers  | 118            | 109            | -9                   | -7.6%        | -4              | 5             | 7             | 8             | \$22.35                    |
| 49-9069               | Precision Instrument and Equipment Repairers, All Other  | 472            | 477            | 5                    | 1.1%         | 2               | 20            | 29            | 51            | \$30.10                    |
| 49-9071               | Maintenance and Repair Workers, General  | 64,756         | 65,449         | 693                  | 1.1%         | 346             | 2,671         | 3,620         | 6,637         | \$22.20                    |
| 49-9091               | Coin, Vending, and Amusement Machine Servicers and Repairers                                     | 792            | 801            | 9                    | 1.1%         | 4               | 40            | 56            | 100           | \$16.93                    |
| 49-9094               | Locksmiths and Safe Repairers  | 663            | 643            | -20                  | -3.0%        | -10             | 30            | 36            | 56            | \$24.48                    |
| 49-9096               | Riggers  | 149            | 153            | 4                    | 2.7%         | 2               | 8             | 10            | 20            | \$25.40                    |
| 49-9098               | Helpers--Installation, Maintenance, and Repair Workers   | 1,302          | 1,318          | 16                   | 1.2%         | 8               | 72            | 85            | 165           | \$16.67                    |
| 49-9099               | Installation, Maintenance, and Repair Workers, All Other   | 5,869          | 5,966          | 97                   | 1.7%         | 48              | 214           | 392           | 654           | \$19.69                    |
| <b>51-0000</b>        | <b>Production Occupations</b>  | <b>495,168</b> | <b>493,220</b> | <b>-1,948</b>        | <b>-0.4%</b> | <b>-974</b>     | <b>21,406</b> | <b>35,058</b> | <b>55,490</b> | <b>\$19.20</b>             |
| 51-1011               | First-Line Supervisors of Production and Operating Workers                                       | 33,787         | 34,129         | 342                  | 1.0%         | 171             | 1,227         | 2,282         | 3,680         | \$29.76                    |
| 51-2021               | Coil Winders, Tapers, and Finishers  | 557            | 534            | -23                  | -4.1%        | -12             | 26            | 36            | 50            | \$19.33                    |
| 51-2028               | Electrical, Electronic, and Electromechanical Assemblers, ex Coil Winders, Tapers, and Finishers | 13,094         | 13,176         | 82                   | 0.6%         | 41              | 633           | 866           | 1,540         | \$17.92                    |
| 51-2031               | Engine and Other Machine Assemblers  | 8,087          | 7,484          | -603                 | -7.5%        | -302            | 557           | 547           | 802           | \$30.86                    |
| 51-2041               | Structural Metal Fabricators and Fitters   | 2,074          | 2,046          | -28                  | -1.4%        | -14             | 56            | 146           | 188           | \$21.79                    |
| 51-2051               | Fiberglass Laminators and Fabricators  | 463            | 476            | 13                   | 2.8%         | 6               | 20            | 34            | 60            | \$19.62                    |
| 51-2090               | Miscellaneous Assemblers and Fabricators   | 88,719         | 87,538         | -1,181               | -1.3%        | -590            | 3,854         | 6,328         | 9,592         | \$18.17                    |
| 51-3011               | Bakers   | 7,560          | 7,594          | 34                   | 0.4%         | 17              | 489           | 587           | 1,093         | \$14.59                    |
| 51-3021               | Butchers and Meat Cutters  | 5,621          | 5,567          | -54                  | -1.0%        | -27             | 270           | 434           | 677           | \$16.27                    |
| 51-3022               | Meat, Poultry, and Fish Cutters and Trimmers   | 2,022          | 1,998          | -24                  | -1.2%        | -12             | 97            | 156           | 241           | \$15.48                    |
| 51-3023               | Slaughterers and Meat Packers  | 3,730          | 3,687          | -43                  | -1.2%        | -22             | 178           | 288           | 444           | \$14.94                    |
| 51-3091               | Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders                      | 920            | 923            | 3                    | 0.3%         | 2               | 34            | 84            | 120           | \$15.37                    |
| 51-3092               | Food Batchmakers   | 7,951          | 7,982          | 31                   | 0.4%         | 16              | 469           | 626           | 1,111         | \$19.03                    |
| 51-3093               | Food Cooking Machine Operators and Tenders   | 1,240          | 1,253          | 13                   | 1.0%         | 6               | 86            | 144           | 236           | \$18.46                    |

## Ohio Occupational Employment\* Projections Report, 2022-2024

| SOC Code <sup>1</sup> | Occupational Title**   | Employment  |                | Change in Employment |         | Annual Openings |       |           |       | Median Wage***<br>May 2022 |
|-----------------------|--|-------------|----------------|----------------------|---------|-----------------|-------|-----------|-------|----------------------------|
|                       |  | 2022 Annual | 2024 Projected | 2022-2024            | Percent | Growth          | Exits | Transfers | Total |                            |
| 51-3099               | Food Processing Workers, All Other   | 1,938       | 1,972          | 34                   | 1.8%    | 17              | 84    | 132       | 233   | \$15.82                    |
| 51-4021               | Extruding and Drawing Machine S/O/T, M/P                                       | 4,573       | 4,562          | -11                  | -0.2%   | -6              | 194   | 302       | 490   | \$18.63                    |
| 51-4022               | Forging Machine S/O/T, M/P   | 1,168       | 1,142          | -26                  | -2.2%   | -13             | 49    | 76        | 112   | \$21.47                    |
| 51-4023               | Rolling Machine S/O/T, M/P   | 4,289       | 4,343          | 54                   | 1.3%    | 27              | 182   | 284       | 493   | \$22.19                    |
| 51-4031               | Cutting, Punching, and Press Machine S/O/T, M/P                                | 17,765      | 17,269         | -496                 | -2.8%   | -248            | 642   | 1,186     | 1,580 | \$18.46                    |
| 51-4032               | Drilling and Boring Machine Tool S/O/T, M/P                                    | 296         | 289            | -7                   | -2.4%   | -4              | 20    | 20        | 36    | \$19.69                    |
| 51-4033               | Grind/Lapping/Polish/Buff Mach. Tool S/O/T, M/P                                | 7,376       | 7,233          | -143                 | -1.9%   | -72             | 370   | 558       | 856   | \$17.89                    |
| 51-4034               | Lathe and Turning Machine Tool S/O/T, M/P                                      | 1,767       | 1,747          | -20                  | -1.1%   | -10             | 122   | 117       | 229   | \$22.47                    |
| 51-4035               | Milling and Planing Machine Setters, operators, and Tenders, metal and plastic | 1,332       | 1,287          | -45                  | -3.4%   | -22             | 90    | 87        | 155   | \$20.75                    |
| 51-4041               | Machinists   | 32,150      | 32,538         | 388                  | 1.2%    | 194             | 1,224 | 2,204     | 3,622 | \$22.46                    |
| 51-4051               | Metal-Refining Furnace Operators and Tenders                                   | 1,008       | 1,012          | 4                    | 0.4%    | 2               | 26    | 80        | 108   | \$26.31                    |
| 51-4052               | Pourers and Casters, Metal   | 596         | 589            | -7                   | -1.2%   | -4              | 16    | 46        | 58    | \$24.66                    |
| 51-4061               | Model Makers, Metal and Plastic  | 276         | 274            | -2                   | -0.7%   | -1              | 9     | 19        | 27    | \$29.60                    |
| 51-4062               | Patternmakers, Metal and Plastic   | 321         | 316            | -5                   | -1.6%   | -2              | 10    | 22        | 30    | \$25.38                    |
| 51-4071               | Foundry Mold and Coremakers  | 1,409       | 1,384          | -25                  | -1.8%   | -12             | 44    | 98        | 130   | \$22.22                    |
| 51-4072               | Molding, Coremaking, and Casting Machine S/O/T, M/P                            | 15,184      | 15,034         | -150                 | -1.0%   | -75             | 484   | 1,053     | 1,462 | \$17.29                    |
| 51-4081               | Multiple Machine Tool S/O/T, M/P   | 17,062      | 16,918         | -144                 | -0.8%   | -72             | 643   | 1,144     | 1,715 | \$19.54                    |
| 51-4111               | Tool and Die Makers  | 6,528       | 6,400          | -128                 | -2.0%   | -64             | 314   | 398       | 648   | \$27.83                    |
| 51-4121               | Welders, Cutters, Solderers, and Brazers                                       | 19,843      | 20,138         | 295                  | 1.5%    | 148             | 626   | 1,548     | 2,322 | \$22.29                    |
| 51-4122               | Welding, Soldering, and Brazing Machine S/O/T                                  | 1,262       | 1,243          | -19                  | -1.5%   | -10             | 40    | 97        | 127   | \$21.86                    |
| 51-4191               | Heat Treating Equipment S/O/T, M/P   | 1,721       | 1,721          | 0                    | 0.0%    | 0               | 65    | 116       | 181   | \$21.42                    |
| 51-4193               | Plating and Coating Machine S/O/T, M/P   | 2,173       | 2,151          | -22                  | -1.0%   | -11             | 82    | 146       | 217   | \$18.96                    |
| 51-4194               | Tool Grinders, Filers, and Sharpeners  | 151         | 147            | -4                   | -2.6%   | -2              | 6     | 10        | 14    | \$27.97                    |
| 51-4199               | Metal Workers and Plastic Workers, All Other                                   | 1,098       | 1,085          | -13                  | -1.2%   | -6              | 42    | 74        | 110   | \$22.72                    |
| 51-5111               | Prepress Technicians and Workers   | 1,479       | 1,411          | -68                  | -4.6%   | -34             | 72    | 118       | 156   | \$21.08                    |
| 51-5112               | Printing Press Operators   | 8,553       | 8,371          | -182                 | -2.1%   | -91             | 364   | 570       | 843   | \$18.62                    |
| 51-5113               | Print Binding and Finishing Workers  | 1,615       | 1,535          | -80                  | -5.0%   | -40             | 75    | 88        | 123   | \$17.68                    |
| 51-6011               | Laundry and Dry-Cleaning Workers   | 6,338       | 6,291          | -47                  | -0.7%   | -24             | 482   | 414       | 872   | \$13.04                    |
| 51-6021               | Pressers, Textile, Garment, and Related Materials                              | 656         | 632            | -24                  | -3.7%   | -12             | 41    | 36        | 65    | \$13.34                    |
| 51-6031               | Sewing Machine Operators   | 4,947       | 4,922          | -25                  | -0.5%   | -12             | 342   | 268       | 598   | \$14.66                    |
| 51-6041               | Shoe and Leather Workers and Repairers   | 354         | 361            | 7                    | 2.0%    | 4               | 25    | 22        | 51    | \$14.14                    |
| 51-6051               | Sewers, Hand   | 1,478       | 1,483          | 5                    | 0.3%    | 2               | 140   | 70        | 212   | \$15.43                    |
| 51-6052               | Tailors, Dressmakers, and Custom Sewers  | 1,457       | 1,443          | -14                  | -1.0%   | -7              | 136   | 68        | 197   | \$17.97                    |
| 51-6062               | Textile Cutting Machine S/O/T  | 155         | 154            | -1                   | -0.6%   | 0               | 10    | 11        | 21    | \$16.07                    |
| 51-6063               | Textile knitting and Weaving Machine S/O/T                                     | 206         | 206            | 0                    | 0.0%    | 0               | 14    | 14        | 28    | \$14.33                    |
| 51-6064               | Textile Winding, Twisting, and Drawing out S/O/T                               | 345         | 349            | 4                    | 1.2%    | 2               | 22    | 24        | 48    | \$14.64                    |
| 51-6091               | Extruding and Forming Machine S/O/T, Synthetic and Glass Fibers                | 730         | 745            | 15                   | 2.1%    | 8               | 36    | 44        | 88    | \$27.62                    |
| 51-6093               | Upholsterers   | 1,538       | 1,520          | -18                  | -1.2%   | -9              | 62    | 94        | 147   | \$19.20                    |
| 51-6099               | Textile, Apparel, and Furnishings Workers, All Other                           | 108         | 104            | -4                   | -3.7%   | -2              | 6     | 6         | 10    | \$16.84                    |
| 51-7011               | Cabinetmakers and Bench Carpenters   | 4,152       | 4,265          | 113                  | 2.7%    | 56              | 183   | 264       | 503   | \$18.22                    |
| 51-7021               | Furniture Finishers  | 710         | 720            | 10                   | 1.4%    | 5               | 48    | 54        | 107   | \$17.92                    |
| 51-7041               | Sawing Machine S/O/T, Wood   | 1,886       | 1,915          | 29                   | 1.5%    | 14              | 84    | 136       | 234   | \$17.75                    |
| 51-7042               | Woodworking Machine S/O/T, except Sawing                                       | 3,239       | 3,331          | 92                   | 2.8%    | 46              | 114   | 212       | 372   | \$18.03                    |
| 51-7099               | Woodworkers, All Other   | 804         | 833            | 29                   | 3.6%    | 14              | 36    | 51        | 101   | \$17.12                    |
| 51-8012               | Power Distributors and Dispatchers   | 546         | 514            | -32                  | -5.9%   | -16             | 17    | 34        | 35    | \$41.64                    |
| 51-8013               | Power Plant Operators  | 711         | 654            | -57                  | -8.0%   | -28             | 22    | 44        | 38    | \$40.24                    |
| 51-8021               | Stationary Engineers and Boiler Operators                                      | 799         | 793            | -6                   | -0.8%   | -3              | 44    | 54        | 95    | \$32.26                    |
| 51-8031               | Water and Wastewater Treatment Plant and System Operators                      | 4,512       | 4,403          | -109                 | -2.4%   | -54             | 164   | 267       | 377   | \$24.98                    |

## Ohio Occupational Employment\* Projections Report, 2022-2024

| SOC Code <sup>1</sup> | Occupational Title**  | Employment     |                | Change in Employment |             | Annual Openings |               |               |               | Median Wage***<br>May 2022 |
|-----------------------|---|----------------|----------------|----------------------|-------------|-----------------|---------------|---------------|---------------|----------------------------|
|                       |   | 2022 Annual    | 2024 Projected | 2022-2024            | Percent     | Growth          | Exits         | Transfers     | Total         |                            |
| 51-8091               | Chemical Plant and System Operators                                       | 705            | 708            | 3                    | 0.4%        | 2               | 19            | 56            | 77            | \$38.46                    |
| 51-8092               | Gas Plant Operators   | 189            | 191            | 2                    | 1.1%        | 1               | 5             | 15            | 21            | \$22.22                    |
| 51-8093               | Petroleum Pump System Operators, Refinery Operators, and Gaugers          | 836            | 854            | 18                   | 2.2%        | 9               | 23            | 66            | 98            | \$48.85                    |
| 51-8099               | Plant and System Operators, All Other                                     | 208            | 213            | 5                    | 2.4%        | 2               | 6             | 16            | 24            | \$23.10                    |
| 51-9011               | Chemical Equipment Operators and Tenders                                  | 6,516          | 6,518          | 2                    | 0.0%        | 1               | 194           | 480           | 675           | \$23.57                    |
| 51-9012               | Separating, Filtering, Clarifying, Precipitating, and Still Machine S/O/T | 1,721          | 1,760          | 39                   | 2.3%        | 20              | 52            | 128           | 200           | \$21.37                    |
| 51-9021               | Crushing, Grinding, and Polishing Machine S/O/T                           | 1,491          | 1,511          | 20                   | 1.3%        | 10              | 56            | 112           | 178           | \$19.60                    |
| 51-9022               | Grinding and Polishing Workers, Hand                                      | 517            | 508            | -9                   | -1.7%       | -4              | 19            | 38            | 53            | \$18.55                    |
| 51-9023               | Mixing and Blending Machine S/O/T   | 5,570          | 5,673          | 103                  | 1.8%        | 52              | 208           | 418           | 678           | \$19.73                    |
| 51-9031               | Cutters and Trimmers, Hand  | 107            | 103            | -4                   | -3.7%       | -2              | 6             | 8             | 12            | \$17.47                    |
| 51-9032               | Cutting and Slicing Machine S/O/T   | 2,413          | 2,431          | 18                   | 0.7%        | 9               | 134           | 180           | 323           | \$18.61                    |
| 51-9041               | Extruding, Forming, Pressing, and Compacting Machine S/O/T                | 5,000          | 5,153          | 153                  | 3.1%        | 76              | 171           | 345           | 592           | \$17.61                    |
| 51-9051               | Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders              | 1,225          | 1,255          | 30                   | 2.4%        | 15              | 56            | 84            | 155           | \$22.42                    |
| 51-9061               | Inspectors, Testers, Sorters, Samplers, and Weighers                      | 31,908         | 31,145         | -763                 | -2.4%       | -382            | 1,366         | 2,523         | 3,507         | \$20.88                    |
| 51-9071               | Jewelers and Precious Stone and Metal Workers                             | 1,213          | 1,167          | -46                  | -3.8%       | -23             | 74            | 81            | 132           | \$21.27                    |
| 51-9081               | Dental Laboratory Technicians   | 1,056          | 1,082          | 26                   | 2.5%        | 13              | 56            | 86            | 155           | \$21.86                    |
| 51-9082               | Medical Appliance Technicians   | 690            | 705            | 15                   | 2.2%        | 8               | 36            | 56            | 100           | \$19.60                    |
| 51-9083               | Ophthalmic Laboratory Technicians   | 574            | 586            | 12                   | 2.1%        | 6               | 30            | 46            | 82            | \$18.52                    |
| 51-9111               | Packaging and Filling Machine Operators and Tenders                       | 19,265         | 19,613         | 348                  | 1.8%        | 174             | 902           | 1,322         | 2,398         | \$17.91                    |
| 51-9123               | Painting, Coating, and Decorating Workers                                 | 426            | 433            | 7                    | 1.6%        | 4               | 13            | 30            | 47            | \$20.56                    |
| 51-9124               | Coating, Painting, and Spraying Machine S/O/T                             | 6,564          | 6,664          | 100                  | 1.5%        | 50              | 199           | 458           | 707           | \$20.34                    |
| 51-9161               | Computer Numerically Controlled Tool Operators                            | 11,208         | 11,069         | -139                 | -1.2%       | -70             | 356           | 800           | 1,086         | \$21.59                    |
| 51-9162               | Computer Numerically Controlled Tool Programmers                          | 1,985          | 2,089          | 104                  | 5.2%        | 52              | 65            | 146           | 263           | \$28.45                    |
| 51-9191               | Adhesive Bonding Machine Operators and Tenders                            | 1,043          | 1,053          | 10                   | 1.0%        | 5               | 56            | 70            | 131           | \$21.59                    |
| 51-9192               | Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders     | 818            | 834            | 16                   | 2.0%        | 8               | 34            | 61            | 103           | \$22.02                    |
| 51-9193               | Cooling and Freezing Equipment Operators and Tenders                      | 878            | 893            | 15                   | 1.7%        | 8               | 36            | 66            | 110           | \$24.32                    |
| 51-9194               | Etchers and Engravers   | 229            | 227            | -2                   | -0.9%       | -1              | 11            | 13            | 23            | \$18.51                    |
| 51-9195               | Molders, Shapers, and Casters, except M/P                                 | 3,053          | 3,232          | 179                  | 5.9%        | 90              | 135           | 208           | 433           | \$18.44                    |
| 51-9196               | Paper Goods Machine S/O/T   | 6,280          | 6,246          | -34                  | -0.5%       | -17             | 330           | 438           | 751           | \$21.57                    |
| 51-9197               | Tire Builders   | 519            | 535            | 16                   | 3.1%        | 8               | 13            | 42            | 63            | \$18.43                    |
| 51-9198               | Helpers--Production Workers   | 6,726          | 6,651          | -75                  | -1.1%       | -38             | 418           | 604           | 984           | \$17.72                    |
| 51-9199               | Production Workers, All Other   | 8,969          | 9,158          | 189                  | 2.1%        | 94              | 368           | 668           | 1,130         | \$17.46                    |
| <b>53-0000</b>        | <b>Transportation and Material Moving Occupations</b>                     | <b>545,680</b> | <b>570,615</b> | <b>24,935</b>        | <b>4.6%</b> | <b>12,468</b>   | <b>28,678</b> | <b>47,394</b> | <b>88,540</b> | <b>\$18.08</b>             |
| 53-1041               | Aircraft Cargo Handling Supervisors                                       | 127            | 139            | 12                   | 9.4%        | 6               | 5             | 11            | 22            | \$40.30                    |
| 53-1047               | FL Sup of Trans. & Material Moving Workers, ex. Aircraft Cargo Handling   | 24,421         | 25,412         | 991                  | 4.1%        | 496             | 898           | 2,044         | 3,438         | \$25.64                    |
| 53-2011               | Airline Pilots, Copilots, and Flight Engineers                            | 1,312          | 1,313          | 1                    | 0.1%        | 0               | 54            | 109           | 163           | \$211,310 **               |
| 53-2012               | Commercial Pilots   | 2,605          | 2,653          | 48                   | 1.8%        | 24              | 110           | 218           | 352           | \$100,720 **               |
| 53-2021               | Air Traffic Controllers   | 727            | 739            | 12                   | 1.7%        | 6               | 26            | 52            | 84            | \$70.20                    |
| 53-2022               | Airfield Operations Specialists   | 197            | 201            | 4                    | 2.0%        | 2               | 7             | 14            | 23            | \$23.46                    |
| 53-2031               | Flight Attendants   | 1,023          | 1,019          | -4                   | -0.4%       | -2              | 68            | 71            | 137           | \$59,370 **                |
| 53-3031               | Driver/Sales Workers  | 38,812         | 39,371         | 559                  | 1.4%        | 280             | 1,816         | 2,766         | 4,862         | \$11.80                    |
| 53-3032               | Heavy and Tractor-Trailer Truck Drivers                                   | 93,725         | 97,185         | 3,460                | 3.7%        | 1,730           | 4,436         | 6,752         | 12,918        | \$23.95                    |
| 53-3033               | Light Truck Drivers   | 34,851         | 37,024         | 2,173                | 6.2%        | 1,086           | 1,670         | 2,542         | 5,298         | \$18.21                    |
| 53-3051               | Bus Drivers, School   | 4,450          | 4,511          | 61                   | 1.4%        | 30              | 477           | 222           | 729           | \$19.11                    |
| 53-3052               | Bus Drivers, Transit and Intercity  | 6,420          | 6,513          | 93                   | 1.4%        | 46              | 512           | 341           | 899           | \$23.92                    |
| 53-3053               | Shuttle Drivers and Chauffeurs  | 8,006          | 8,185          | 179                  | 2.2%        | 90              | 600           | 456           | 1,146         | \$13.43                    |
| 53-3054               | Taxi Drivers  | 3,817          | 4,093          | 276                  | 7.2%        | 138             | 207           | 216           | 561           | \$12.62                    |
| 53-3099               | Motor Vehicle Operators, All Other  | 1,357          | 1,385          | 28                   | 2.1%        | 14              | 134           | 84            | 232           | \$12.53                    |

## Ohio Occupational Employment\* Projections Report, 2022-2024

| SOC Code <sup>1</sup> | Occupational Title**   | Employment  |                | Change in Employment |         | Annual Openings |       |           |        | Median Wage***<br>May 2022 |
|-----------------------|--|-------------|----------------|----------------------|---------|-----------------|-------|-----------|--------|----------------------------|
|                       |  | 2022 Annual | 2024 Projected | 2022-2024            | Percent | Growth          | Exits | Transfers | Total  |                            |
| 53-4011               | Locomotive Engineers   | 896         | 897            | 1                    | 0.1%    | 0               | 26    | 56        | 82     | \$34.68                    |
| 53-4022               | Railroad Brake, Signal, and Switch Operators and Locomotive Firers | 535         | 536            | 1                    | 0.2%    | 0               | 22    | 36        | 58     | \$28.73                    |
| 53-4031               | Railroad Conductors and Yardmasters                                | 1,212       | 1,214          | 2                    | 0.2%    | 1               | 28    | 78        | 107    | \$29.98                    |
| 53-5011               | Sailors and Marine Oilers  | 219         | 228            | 9                    | 4.1%    | 4               | 7     | 19        | 30     | \$19.04                    |
| 53-5021               | Captains, Mates, and Pilots of Water Vessels                       | 250         | 262            | 12                   | 4.8%    | 6               | 8     | 20        | 34     | \$32.29                    |
| 53-6011               | Bridge and Lock Tenders  | 219         | 222            | 3                    | 1.4%    | 2               | 10    | 18        | 30     | \$24.42                    |
| 53-6021               | Parking Attendants   | 2,365       | 2,360          | -5                   | -0.2%   | -2              | 120   | 223       | 341    | \$13.78                    |
| 53-6031               | Automotive and Watercraft Service Attendants                       | 3,708       | 3,749          | 41                   | 1.1%    | 20              | 200   | 384       | 604    | \$14.46                    |
| 53-6032               | Aircraft Service Attendants  | 586         | 597            | 11                   | 1.9%    | 6               | 32    | 61        | 99     | \$14.59                    |
| 53-6041               | Traffic Technicians  | 105         | 105            | 0                    | 0.0%    | 0               | 5     | 8         | 13     | \$28.59                    |
| 53-6051               | Transportation Inspectors  | 531         | 532            | 1                    | 0.2%    | 0               | 21    | 38        | 59     | \$32.44                    |
| 53-6061               | Passenger Attendants   | 109         | 112            | 3                    | 2.8%    | 2               | 14    | 7         | 23     | \$12.78                    |
| 53-7011               | Conveyor Operators and Tenders                                     | 1,729       | 1,821          | 92                   | 5.3%    | 46              | 86    | 148       | 280    | \$16.74                    |
| 53-7021               | Crane and Tower Operators  | 2,000       | 2,059          | 59                   | 3.0%    | 30              | 57    | 157       | 244    | \$31.48                    |
| 53-7051               | Industrial Truck and Tractor Operators                             | 37,737      | 41,281         | 3,544                | 9.4%    | 1,772           | 1,322 | 3,146     | 6,240  | \$19.52                    |
| 53-7061               | Cleaners of Vehicles and Equipment                                 | 15,172      | 15,317         | 145                  | 1.0%    | 72              | 822   | 1,360     | 2,254  | \$14.56                    |
| 53-7062               | Laborers and Freight, Stock, and Material Movers, Hand             | 111,490     | 117,263        | 5,773                | 5.2%    | 2,886           | 5,542 | 10,485    | 18,913 | \$16.94                    |
| 53-7063               | Machine Feeders and Offbearers                                     | 2,290       | 2,479          | 189                  | 8.3%    | 94              | 172   | 221       | 487    | \$21.53                    |
| 53-7064               | Packers and Packagers, Hand  | 22,870      | 23,509         | 639                  | 2.8%    | 320             | 1,464 | 2,108     | 3,892  | \$16.32                    |
| 53-7065               | Stockers and Order Fillers   | 110,534     | 116,864        | 6,330                | 5.7%    | 3,165           | 7,284 | 12,082    | 22,531 | \$16.60                    |
| 53-7071               | Gas Compressor and Gas Pumping Station Operators                   | 222         | 236            | 14                   | 6.3%    | 7               | 8     | 20        | 35     | \$40.26                    |
| 53-7072               | Pump Operators, except Wellhead Pumps                              | 166         | 173            | 7                    | 4.2%    | 4               | 6     | 15        | 25     | \$32.44                    |
| 53-7073               | Wellhead Pumps   | 296         | 306            | 10                   | 3.4%    | 5               | 10    | 26        | 41     | \$18.07                    |
| 53-7081               | Refuse and Recyclable Material Collectors                          | 6,135       | 6,282          | 147                  | 2.4%    | 74              | 288   | 576       | 938    | \$21.04                    |
| 53-7121               | Tank Car, Truck, and Ship Loaders                                  | 1,200       | 1,216          | 16                   | 1.3%    | 8               | 59    | 100       | 167    | \$23.15                    |
| 53-7199               | Material Moving Workers, All Other                                 | 191         | 197            | 6                    | 3.1%    | 3               | 10    | 16        | 29     | \$18.18                    |

<sup>1</sup> Occupational codes based on SOC 2010 coding structure. Detailed information - <http://www.bls.gov/soc/>

\* Occupations with 100 or more workers.

\*\* Title Abbreviations

FL Sup = First-Line Supervisors

M/P = Metal and Plastic

S/O/T = Setters, Operators, and Tenders

# Wage is greater than or equal to \$115/hr or \$239,200/year.

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, May 2023.

\*\*\* Wage estimates are based on Ohio's OEWS surveys.

▲ Wage data unavailable.

† National hourly median wage.

\*\* Certain occupations report wages at the annual level - for elementary and secondary teachers this typically reflects the 9 1/2 month school year.

## Ohio Occupational Employment\* Projections Report, 2022-2024

| SOC Code <sup>1</sup> | Occupational Title**  | Typical Education**** Required for Entry | Commonly Required Work Experience in Related Occupations | Typical On-The-Job Training to Obtain Competency | Median Wage*** May 2022 |
|-----------------------|---|--|--|--|-------------------------|
| <b>00-0000</b>        | <b>Total, All Occupations</b>                                     |  |  |  | <b>\$21.52</b>          |
| <b>11-0000</b>        | <b>Management Occupations</b>                                     |  |  |  | <b>\$47.32</b>          |
| 11-1011               | Chief Executives  | Bachelor's degree                        | 5 years or more  | None   | \$88.06                 |
| 11-1021               | General and Operations Managers                                   | Bachelor's degree                        | 5 years or more  | None   | \$42.29                 |
| 11-1031               | Legislators   | Bachelor's degree                        | Less than 5 years  | None   | \$44,300 **             |
| 11-2021               | Marketing Managers  | Bachelor's degree                        | 5 years or more  | None   | \$62.83                 |
| 11-2022               | Sales Managers  | Bachelor's degree                        | Less than 5 years  | None   | \$61.56                 |
| 11-2032               | Public Relations Managers   | Bachelor's degree                        | 5 years or more  | None   | \$60.09                 |
| 11-2033               | Fundraising Managers  | Bachelor's degree                        | 5 years or more  | None   | \$43.65                 |
| 11-3012               | Administrative Services Managers                                  | Bachelor's degree                        | Less than 5 years  | None   | \$39.18                 |
| 11-3013               | Facilities Managers   | Bachelor's degree                        | Less than 5 years  | None   | \$43.09                 |
| 11-3021               | Computer and Information Systems Managers                         | Bachelor's degree                        | 5 years or more  | None   | \$66.45                 |
| 11-3031               | Financial Managers  | Bachelor's degree                        | 5 years or more  | None   | \$62.18                 |
| 11-3051               | Industrial Production Managers                                    | Bachelor's degree                        | 5 years or more  | None   | \$47.75                 |
| 11-3061               | Purchasing Managers   | Bachelor's degree                        | 5 years or more  | None   | \$60.37                 |
| 11-3071               | Transportation, Storage, and Distribution Managers                | High school diploma or equivalent        | 5 years or more  | None   | \$40.94                 |
| 11-3121               | Human Resources Managers  | Bachelor's degree                        | 5 years or more  | None   | \$57.72                 |
| 11-3131               | Training and Development Managers                                 | Bachelor's degree                        | 5 years or more  | None   | \$51.47                 |
| 11-9013               | Farmers, Ranchers, and Other Agricultural Managers                | High school diploma or equivalent        | 5 years or more  | None   | \$31.02                 |
| 11-9021               | Construction Managers   | Bachelor's degree                        | None   | Moderate-term on-the-job training                | \$44.04                 |
| 11-9031               | Education and Childcare Administrators, Preschool and Daycare     | Bachelor's degree                        | Less than 5 years  | None   | \$23.11                 |
| 11-9032               | Education Administrators, Kindergarten through Secondary          | Master's degree                          | 5 years or more  | None   | \$100,260 **            |
| 11-9033               | Education Administrators, Postsecondary                           | Master's degree                          | Less than 5 years  | None   | \$39.46                 |
| 11-9039               | Education Administrators, All Other                               | Bachelor's degree                        | Less than 5 years  | None   | \$38.52                 |
| 11-9041               | Architectural and Engineering Managers                            | Bachelor's degree                        | 5 years or more  | None   | \$67.13                 |
| 11-9051               | Food Service Managers   | High school diploma or equivalent        | Less than 5 years  | Short-term on-the-job training                   | \$27.39                 |
| 11-9072               | Entertainment And Recreation Managers, except Gambling            | Bachelor's degree                        | Less than 5 years  | None   | \$28.08                 |
| 11-9081               | Lodging Managers  | High school diploma or equivalent        | Less than 5 years  | None   | \$24.35                 |
| 11-9111               | Medical and Health Services Managers                              | Bachelor's degree                        | Less than 5 years  | None   | \$48.03                 |
| 11-9121               | Natural Sciences Managers   | Bachelor's degree                        | 5 years or more  | None   | \$56.80                 |
| 11-9131               | Postmasters and Mail Superintendents                              | High school diploma or equivalent        | Less than 5 years  | Moderate-term on-the-job training                | \$39.85                 |
| 11-9141               | Property, Real Estate, and Community Association Managers         | High school diploma or equivalent        | Less than 5 years  | None   | \$23.97                 |
| 11-9151               | Social and Community Service Managers                             | Bachelor's degree                        | Less than 5 years  | None   | \$30.97                 |
| 11-9161               | Emergency Management Directors                                    | Bachelor's degree                        | 5 years or more  | None   | \$38.00                 |
| 11-9171               | Funeral Home Managers   | Associate's degree                       | Less than 5 years  | None   | \$31.31                 |
| 11-9179               | Personal Service Managers, All Other                              | High school diploma or equivalent        | Less than 5 years  | None   | \$26.97 +               |
| 11-9199               | Managers, All Other   | Bachelor's degree                        | Less than 5 years  | None   | \$56.66                 |
| <b>13-0000</b>        | <b>Business and Financial Operations Occupations</b>              |  |  |  | <b>\$34.32</b>          |
| 13-1011               | Agents and Business Managers of Artists, Performers, and Athletes | Bachelor's degree                        | Less than 5 years  | None   | \$39.68 +               |
| 13-1020               | Buyers and Purchasing Agents                                      | Bachelor's degree                        | None   | Moderate-term on-the-job training                | \$31.17                 |
| 13-1031               | Claims Adjusters, Examiners, and Investigators                    | High school diploma or equivalent        | None   | Long-term on-the-job training                    | \$30.76                 |
| 13-1032               | Insurance Appraisers, Auto Damage                                 | Postsecondary non-degree award           | None   | Moderate-term on-the-job training                | \$32.75                 |
| 13-1041               | Compliance Officers   | Bachelor's degree                        | None   | Moderate-term on-the-job training                | \$31.66                 |
| 13-1051               | Cost Estimators   | Bachelor's degree                        | None   | Moderate-term on-the-job training                | \$32.94                 |
| 13-1071               | Human Resources Specialists                                       | Bachelor's degree                        | None   | None   | \$30.09                 |
| 13-1075               | Labor Relations Specialists                                       | Bachelor's degree                        | Less than 5 years  | None   | \$37.95                 |
| 13-1081               | Logisticians  | Bachelor's degree                        | None   | None   | \$37.61                 |
| 13-1082               | Project Management Specialists                                    | Bachelor's degree                        | None   | None   | \$40.10                 |

## Ohio Occupational Employment\* Projections Report, 2022-2024

| SOC Code <sup>1</sup> | Occupational Title**                                 | Typical Education**** Required for Entry | Commonly Required Work Experience in Related Occupations | Typical On-The-Job Training to Obtain Competency | Median Wage*** May 2022 |
|-----------------------|--|--|--|--|-------------------------|
| 13-1111               | Management Analysts                                  | Bachelor's degree                        | Less than 5 years  | None   | \$39.73                 |
| 13-1121               | Meeting, Convention, and Event Planners              | Bachelor's degree                        | None   | None   | \$22.83                 |
| 13-1131               | Fundraisers  | Bachelor's degree                        | None   | None   | \$23.49                 |
| 13-1141               | Compensation, Benefits, and Job Analysis Specialists | Bachelor's degree                        | Less than 5 years  | None   | \$30.91                 |
| 13-1151               | Training and Development Specialists                 | Bachelor's degree                        | Less than 5 years  | None   | \$28.94                 |
| 13-1161               | Market Research Analysts and Marketing Specialists   | Bachelor's degree                        | None   | None   | \$30.29                 |
| 13-2011               | Accountants and Auditors                             | Bachelor's degree                        | None   | None   | \$34.97                 |
| 13-2020               | Property Appraisers and Assessors                    | Bachelor's degree                        | None   | Long-term on-the-job training                    | \$30.49                 |
| 13-2031               | Budget Analysts                                      | Bachelor's degree                        | None   | None   | \$38.86                 |
| 13-2041               | Credit Analysts                                      | Bachelor's degree                        | None   | None   | \$37.05                 |
| 13-2051               | Financial and Investment Analysts                    | Bachelor's degree                        | None   | None   | \$38.51                 |
| 13-2052               | Personal Financial Advisors                          | Bachelor's degree                        | None   | Long-term on-the-job training                    | \$38.06                 |
| 13-2053               | Insurance Underwriters                               | Bachelor's degree                        | None   | Moderate-term on-the-job training                | \$36.86                 |
| 13-2054               | Financial Risk Specialists                           | Bachelor's degree                        | None   | None   | \$48.15                 |
| 13-2061               | Financial Examiners                                  | Bachelor's degree                        | None   | Long-term on-the-job training                    | \$30.67                 |
| 13-2071               | Credit Counselors                                    | Bachelor's degree                        | None   | Moderate-term on-the-job training                | \$22.62                 |
| 13-2072               | Loan Officers  | Bachelor's degree                        | Less than 5 years  | Moderate-term on-the-job training                | \$29.95                 |
| 13-2081               | Tax Examiners and Collectors, and Revenue Agents     | Bachelor's degree                        | None   | Moderate-term on-the-job training                | \$28.69                 |
| 13-2082               | Tax Preparers  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$20.98                 |
| 13-2099               | Financial Specialists, All Other                     | Bachelor's degree                        | None   | None   | \$40.69                 |
| <b>15-0000</b>        | <b>Computer and Mathematical Occupations</b>         |  |  |  | <b>\$41.61</b>          |
| 15-1211               | Computer Systems Analysts                            | Bachelor's degree                        | None   | None   | \$48.54                 |
| 15-1212               | Information Security Analysts                        | Bachelor's degree                        | Less than 5 years  | None   | \$49.74                 |
| 15-1221               | Computer and Information Research Scientists         | Master's degree                          | None   | None   | \$58.78                 |
| 15-1231               | Computer Network Support Specialists                 | Associate's degree                       | None   | Moderate-term on-the-job training                | \$30.40                 |
| 15-1232               | Computer User Support Specialists                    | Some college, no degree                  | None   | Moderate-term on-the-job training                | \$23.48                 |
| 15-1241               | Computer Network Architects                          | Bachelor's degree                        | 5 years or more  | None   | \$54.92                 |
| 15-1242               | Database Administrators                              | Bachelor's degree                        | None   | None   | \$42.67                 |
| 15-1243               | Database Architects                                  | Bachelor's degree                        | Less than 5 years  | None   | \$57.82                 |
| 15-1244               | Network and Computer Systems Administrators          | Bachelor's degree                        | None   | None   | \$43.33                 |
| 15-1251               | Computer Programmers                                 | Bachelor's degree                        | None   | None   | \$41.22                 |
| 15-1252               | Software Developers                                  | Bachelor's degree                        | None   | None   | \$50.24                 |
| 15-1253               | Software Quality Assurance Analysts and Testers      | Bachelor's degree                        | None   | None   | \$42.13                 |
| 15-1254               | Web Developers                                       | Bachelor's degree                        | None   | None   | \$38.17                 |
| 15-1255               | Web and Digital Interface Designers                  | Bachelor's degree                        | None   | None   | \$37.40                 |
| 15-1299               | Computer Occupations, All Other                      | Bachelor's degree                        | None   | None   | \$47.77                 |
| 15-2011               | Actuaries  | Bachelor's degree                        | None   | Long-term on-the-job training                    | \$49.22                 |
| 15-2031               | Operations Research Analysts                         | Bachelor's degree                        | None   | None   | \$41.57                 |
| 15-2041               | Statisticians  | Master's degree                          | None   | None   | \$38.48                 |
| 15-2051               | Data Scientists                                      | Bachelor's degree                        | None   | None   | \$42.77                 |
| <b>17-0000</b>        | <b>Architecture and Engineering Occupations</b>      |  |  |  | <b>\$38.65</b>          |
| 17-1011               | Architects, except Landscape and Naval               | Bachelor's degree                        | None   | Internship/residency                             | \$38.02                 |
| 17-1012               | Landscape Architects                                 | Bachelor's degree                        | None   | Internship/residency                             | \$27.64                 |
| 17-1021               | Cartographers and Photogrammetrists                  | Bachelor's degree                        | None   | None   | \$36.09                 |
| 17-1022               | Surveyors  | Bachelor's degree                        | None   | Internship/residency                             | \$29.00                 |
| 17-2011               | Aerospace Engineers                                  | Bachelor's degree                        | None   | None   | \$59.02                 |
| 17-2031               | Bioengineers and Biomedical Engineers                | Bachelor's degree                        | None   | None   | \$44.83                 |
| 17-2041               | Chemical Engineers                                   | Bachelor's degree                        | None   | None   | \$47.68                 |

## Ohio Occupational Employment\* Projections Report, 2022-2024

| SOC Code <sup>1</sup> | Occupational Title**   | Typical Education**** Required for Entry | Commonly Required Work Experience in Related Occupations | Typical On-The-Job Training to Obtain Competency | Median Wage*** May 2022 |
|-----------------------|--|--|--|--|-------------------------|
| 17-2051               | Civil Engineers  | Bachelor's degree                        | None   | None   | \$38.98                 |
| 17-2061               | Computer Hardware Engineers  | Bachelor's degree                        | None   | None   | \$41.86                 |
| 17-2071               | Electrical Engineers   | Bachelor's degree                        | None   | None   | \$46.85                 |
| 17-2072               | Electronics Engineers, except Computer                                     | Bachelor's degree                        | None   | None   | \$46.54                 |
| 17-2081               | Environmental Engineers  | Bachelor's degree                        | None   | None   | \$56.57                 |
| 17-2111               | Health and Safety Engineers, except Mining Safety Engineers and Inspectors | Bachelor's degree                        | None   | None   | \$46.39                 |
| 17-2112               | Industrial Engineers   | Bachelor's degree                        | None   | None   | \$41.88                 |
| 17-2131               | Materials Engineers  | Bachelor's degree                        | None   | None   | \$44.38                 |
| 17-2141               | Mechanical Engineers   | Bachelor's degree                        | None   | None   | \$39.94                 |
| 17-2151               | Mining and Geological Engineers, Including Mining Safety Engineers         | Bachelor's degree                        | None   | None   | \$40.83                 |
| 17-2161               | Nuclear Engineers  | Bachelor's degree                        | None   | None   | \$52.42                 |
| 17-2171               | Petroleum Engineers  | Bachelor's degree                        | None   | None   | \$48.66                 |
| 17-2199               | Engineers, All Other   | Bachelor's degree                        | None   | None   | \$49.29                 |
| 17-3011               | Architectural and Civil Drafters   | Associate's degree                       | None   | None   | \$28.71                 |
| 17-3012               | Electrical and Electronics Drafters  | Associate's degree                       | None   | None   | \$30.12                 |
| 17-3013               | Mechanical Drafters  | Associate's degree                       | None   | None   | \$29.37                 |
| 17-3019               | Drafters, All Other  | Associate's degree                       | None   | None   | \$25.18                 |
| 17-3021               | Aerospace Engineering and Operations Technologists and Technicians         | Associate's degree                       | None   | None   | \$34.69                 |
| 17-3022               | Civil Engineering Technologists and Technicians                            | Associate's degree                       | None   | None   | \$29.40                 |
| 17-3023               | Electrical and Electronics Engineering Technologists and Technicians       | Associate's degree                       | None   | None   | \$31.92                 |
| 17-3024               | Electro-Mechanical and Mechatronics Technologists and Technicians          | Associate's degree                       | None   | None   | \$27.02                 |
| 17-3025               | Environmental Engineering Technologists and Technicians                    | Associate's degree                       | None   | None   | \$23.68                 |
| 17-3026               | Industrial Engineering Technologists and Technicians                       | Associate's degree                       | None   | None   | \$28.34                 |
| 17-3027               | Mechanical Engineering Technologists and Technicians                       | Associate's degree                       | None   | None   | \$28.80                 |
| 17-3028               | Calibration Technologists and Technicians                                  | Associate's degree                       | None   | None   | \$28.39                 |
| 17-3029               | Engineering Technologists and Technicians, except Drafters, All Other      | Associate's degree                       | None   | None   | \$27.21                 |
| 17-3031               | Surveying and Mapping Technicians  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$23.67                 |
| <b>19-0000</b>        | <b><i>Life, Physical, and Social Science Occupations</i></b>               |  |  |  | <b>\$32.77</b>          |
| 19-1012               | Food Scientists and Technologists  | Bachelor's degree                        | None   | None   | \$37.28                 |
| 19-1013               | Soil and Plant Scientists  | Bachelor's degree                        | None   | None   | \$30.04                 |
| 19-1021               | Biochemists and Biophysicists  | Doctoral or professional degree          | None   | None   | \$35.80                 |
| 19-1022               | Microbiologists  | Bachelor's degree                        | None   | None   | \$28.20                 |
| 19-1023               | Zoologists and Wildlife Biologists   | Bachelor's degree                        | None   | None   | \$28.80                 |
| 19-1029               | Biological Scientists, All Other   | Bachelor's degree                        | None   | None   | \$39.65                 |
| 19-1031               | Conservation Scientists  | Bachelor's degree                        | None   | None   | \$23.64                 |
| 19-1032               | Foresters  | Bachelor's degree                        | None   | None   | \$31.68                 |
| 19-1041               | Epidemiologists  | Master's degree                          | None   | None   | \$35.72                 |
| 19-2012               | Physicists   | Doctoral or professional degree          | None   | None   | \$61.46                 |
| 19-2031               | Chemists   | Bachelor's degree                        | None   | None   | \$37.81                 |
| 19-2032               | Materials Scientists   | Bachelor's degree                        | None   | None   | \$43.68                 |
| 19-2041               | Environmental Scientists and Specialists, Including Health                 | Bachelor's degree                        | None   | None   | \$35.65                 |
| 19-2042               | Geoscientists, except Hydrologists and Geographers                         | Bachelor's degree                        | None   | None   | \$37.55                 |
| 19-2043               | Hydrologists   | Bachelor's degree                        | None   | None   | \$42.38                 |
| 19-2099               | Physical Scientists, All Other   | Bachelor's degree                        | None   | None   | \$49.66                 |
| 19-3011               | Economists   | Master's degree                          | None   | None   | \$50.05                 |
| 19-3022               | Survey Researchers   | Master's degree                          | None   | None   | \$17.74                 |
| 19-3033               | Clinical and Counseling Psychologists                                      | Doctoral or professional degree          | None   | Internship/residency                             | \$46.35                 |
| 19-3034               | School Psychologists   | Master's degree                          | None   | Internship/residency                             | \$40.22                 |

## Ohio Occupational Employment\* Projections Report, 2022-2024

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|-----------------------|--|--|--|--|-------------------------|
| 19-3039               | Psychologists, All Other   | Master's degree                          | None   | Internship/residency                             | \$53.40                 |
| 19-3051               | Urban and Regional Planners  | Master's degree                          | None   | None   | \$32.27                 |
| 19-3099               | Social Scientists and Related Workers, All Other                   | Bachelor's degree                        | None   | None   | \$41.38                 |
| 19-4012               | Agricultural Technicians   | Associate's degree                       | None   | Moderate-term on-the-job training                | \$18.39                 |
| 19-4013               | Food Science Technicians   | Associate's degree                       | None   | Moderate-term on-the-job training                | \$31.27                 |
| 19-4021               | Biological Technicians   | Bachelor's degree                        | None   | None   | \$24.09                 |
| 19-4031               | Chemical Technicians   | Associate's degree                       | None   | Moderate-term on-the-job training                | \$24.15                 |
| 19-4042               | Environmental Science and Protection Technicians, Including Health | Associate's degree                       | None   | None   | \$22.30                 |
| 19-4043               | Geological Technicians, except Hydrologic Technicians              | Associate's degree                       | None   | Moderate-term on-the-job training                | \$30.18                 |
| 19-4051               | Nuclear Technicians  | Associate's degree                       | None   | Moderate-term on-the-job training                | \$48.28 +               |
| 19-4061               | Social Science Research Assistants                                 | Bachelor's degree                        | None   | None   | \$19.22                 |
| 19-4071               | Forest and Conservation Technicians                                | Associate's degree                       | None   | None   | \$18.96                 |
| 19-4092               | Forensic Science Technicians                                       | Bachelor's degree                        | None   | Moderate-term on-the-job training                | \$30.59                 |
| 19-4099               | Life, Physical, and Social Science Technicians, All Other          | Associate's degree                       | None   | None   | \$22.00                 |
| 19-5011               | Occupational Health and Safety Specialists                         | Bachelor's degree                        | None   | None   | \$37.63                 |
| 19-5012               | Occupational Health and Safety Technicians                         | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$27.09                 |
| <b>21-0000</b>        | <b>Community and Social Service Occupations</b>                    |  |  |  | <b>\$22.99</b>          |
| 21-1012               | Educational, Guidance, and Career Counselors and Advisors          | Master's degree                          | None   | None   | \$31.62                 |
| 21-1013               | Marriage and Family Therapists                                     | Master's degree                          | None   | Internship/residency                             | \$24.28                 |
| 21-1015               | Rehabilitation Counselors  | Master's degree                          | None   | None   | \$18.96                 |
| 21-1018               | Substance Abuse, Behavioral Disorder, and Mental Health Counselors | Bachelor's degree                        | None   | None   | \$23.28                 |
| 21-1019               | Counselors, All Other  | Master's degree                          | None   | None   | \$21.27                 |
| 21-1021               | Child, Family, and School Social Workers                           | Bachelor's degree                        | None   | None   | \$22.56                 |
| 21-1022               | Healthcare Social Workers  | Master's degree                          | None   | Internship/residency                             | \$28.95                 |
| 21-1023               | Mental Health and Substance Abuse Social Workers                   | Master's degree                          | None   | Internship/residency                             | \$19.68                 |
| 21-1029               | Social Workers, All Other  | Bachelor's degree                        | None   | None   | \$26.98                 |
| 21-1091               | Health Education Specialists                                       | Bachelor's degree                        | None   | None   | \$25.51                 |
| 21-1092               | Probation Officers and Correctional Treatment Specialists          | Bachelor's degree                        | None   | Short-term on-the-job training                   | \$26.04                 |
| 21-1093               | Social and Human Service Assistants                                | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$17.49                 |
| 21-1094               | Community Health Workers   | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$19.41                 |
| 21-1099               | Community and Social Service Specialists, All Other                | Bachelor's degree                        | None   | None   | \$21.96                 |
| 21-2011               | Clergy   | Bachelor's degree                        | None   | Moderate-term on-the-job training                | \$24.19                 |
| 21-2021               | Directors, Religious Activities and Education                      | Bachelor's degree                        | Less than 5 years  | None   | \$19.73                 |
| 21-2099               | Religious Workers, All Other                                       | Bachelor's degree                        | None   | None   | \$24.85                 |
| <b>23-0000</b>        | <b>Legal Occupations</b>   |  |  |  | <b>\$38.46</b>          |
| 23-1011               | Lawyers  | Doctoral or professional degree          | None   | None   | \$51.62                 |
| 23-1012               | Judicial Law Clerks  | Doctoral or professional degree          | None   | None   | \$22.88                 |
| 23-1021               | Administrative Law Judges, Adjudicators, and Hearing Officers      | Doctoral or professional degree          | 5 years or more  | Short-term on-the-job training                   | \$29.58                 |
| 23-1022               | Arbitrators, Mediators, and Conciliators                           | Bachelor's degree                        | Less than 5 years  | Moderate-term on-the-job training                | \$31.16                 |
| 23-1023               | Judges, Magistrate Judges, and Magistrates                         | Doctoral or professional degree          | 5 years or more  | Short-term on-the-job training                   | \$61.10                 |
| 23-2011               | Paralegals and Legal Assistants                                    | Associate's degree                       | None   | None   | \$24.32                 |
| 23-2093               | Title Examiners, Abstractors, and Searchers                        | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$23.82                 |
| 23-2099               | Legal Support Workers, All Other                                   | Associate's degree                       | None   | None   | \$28.29                 |
| <b>25-0000</b>        | <b>Educational Instruction and Library Occupations</b>             |  |  |  | <b>\$29.07</b>          |
| 25-1011               | Business Teachers, Postsecondary                                   | Doctoral or professional degree          | None   | None   | \$79,930 **             |
| 25-1021               | Computer Science Teachers, Postsecondary                           | Doctoral or professional degree          | None   | None   | \$78,690 **             |
| 25-1022               | Mathematical Science Teachers, Postsecondary                       | Doctoral or professional degree          | None   | None   | \$79,590 **             |
| 25-1031               | Architecture Teachers, Postsecondary                               | Doctoral or professional degree          | None   | None   | ▲                       |

## Ohio Occupational Employment\* Projections Report, 2022-2024

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|-----------------------|--|--|--|--|-------------------------|
| 25-1032               | Engineering Teachers, Postsecondary                                      | Doctoral or professional degree          | None   | None   | \$102,540 **            |
| 25-1042               | Biological Science Teachers, Postsecondary                               | Doctoral or professional degree          | None   | None   | \$78,640 **             |
| 25-1051               | Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary   | Doctoral or professional degree          | None   | None   | \$91,330 **             |
| 25-1052               | Chemistry Teachers, Postsecondary  | Doctoral or professional degree          | None   | None   | \$77,540 **             |
| 25-1053               | Environmental Science Teachers, Postsecondary                            | Doctoral or professional degree          | None   | None   | \$84,930 **             |
| 25-1054               | Physics Teachers, Postsecondary  | Doctoral or professional degree          | None   | None   | \$83,560 **             |
| 25-1061               | Anthropology and Archeology Teachers, Postsecondary                      | Doctoral or professional degree          | None   | None   | \$77,950 **             |
| 25-1062               | Area, Ethnic, and Cultural Studies Teachers, Postsecondary               | Doctoral or professional degree          | None   | None   | \$77,110 **             |
| 25-1063               | Economics Teachers, Postsecondary  | Doctoral or professional degree          | None   | None   | \$87,660 **             |
| 25-1064               | Geography Teachers, Postsecondary  | Doctoral or professional degree          | None   | None   | \$85,220 **             |
| 25-1065               | Political Science Teachers, Postsecondary                                | Doctoral or professional degree          | None   | None   | \$79,760 **             |
| 25-1066               | Psychology Teachers, Postsecondary                                       | Doctoral or professional degree          | None   | None   | \$77,800 **             |
| 25-1067               | Sociology Teachers, Postsecondary  | Doctoral or professional degree          | None   | None   | \$75,760 **             |
| 25-1069               | Social Sciences Teachers, Postsecondary, All Other                       | Doctoral or professional degree          | None   | None   | \$61,990 **             |
| 25-1071               | Health Specialties Teachers, Postsecondary                               | Doctoral or professional degree          | Less than 5 years  | None   | \$107,020 **            |
| 25-1072               | Nursing Instructors and Teachers, Postsecondary                          | Doctoral or professional degree          | Less than 5 years  | None   | \$79,050 **             |
| 25-1081               | Education Teachers, Postsecondary  | Doctoral or professional degree          | Less than 5 years  | None   | \$65,110 **             |
| 25-1082               | Library Science Teachers, Postsecondary                                  | Doctoral or professional degree          | None   | None   | \$66,290 **             |
| 25-1111               | Criminal Justice and Law Enforcement Teachers, Postsecondary             | Doctoral or professional degree          | None   | None   | \$59,260 **             |
| 25-1112               | Law Teachers, Postsecondary  | Doctoral or professional degree          | Less than 5 years  | None   | \$127,170 **            |
| 25-1113               | Social Work Teachers, Postsecondary                                      | Doctoral or professional degree          | None   | None   | \$76,770 **             |
| 25-1121               | Art, Drama, and Music Teachers, Postsecondary                            | Master's degree                          | None   | None   | \$64,910 **             |
| 25-1122               | Communications Teachers, Postsecondary                                   | Doctoral or professional degree          | None   | None   | \$75,150 **             |
| 25-1123               | English Language and Literature Teachers, Postsecondary                  | Doctoral or professional degree          | None   | None   | \$63,760 **             |
| 25-1124               | Foreign Language and Literature Teachers, Postsecondary                  | Doctoral or professional degree          | None   | None   | \$64,960 **             |
| 25-1125               | History Teachers, Postsecondary  | Doctoral or professional degree          | None   | None   | \$79,910 **             |
| 25-1126               | Philosophy and Religion Teachers, Postsecondary                          | Doctoral or professional degree          | None   | None   | \$80,060 **             |
| 25-1192               | Family and Consumer Sciences Teachers, Postsecondary                     | Doctoral or professional degree          | None   | None   | \$65,750 **             |
| 25-1193               | Recreation and Fitness Studies Teachers, Postsecondary                   | Doctoral or professional degree          | None   | None   | \$63,590 **             |
| 25-1194               | Career/Technical Education Teachers, Postsecondary                       | Bachelor's degree                        | Less than 5 years  | None   | \$29.23                 |
| 25-1199               | Postsecondary Teachers, All Other  | Doctoral or professional degree          | None   | None   | \$66,250 **             |
| 25-2011               | Preschool Teachers, except Special Education                             | Associate's degree                       | None   | None   | \$13.97                 |
| 25-2012               | Kindergarten Teachers, except Special Education                          | Bachelor's degree                        | None   | None   | \$58,380 **             |
| 25-2021               | Elementary School Teachers, except Special Education                     | Bachelor's degree                        | None   | None   | \$64,450 **             |
| 25-2022               | Middle School Teachers, except Special and Career/Technical Education    | Bachelor's degree                        | None   | None   | \$75,250 **             |
| 25-2031               | Secondary School Teachers, except Special and Career/Technical Education | Bachelor's degree                        | None   | None   | \$73,520 **             |
| 25-2032               | Career/Technical Education Teachers, Secondary School                    | Bachelor's degree                        | Less than 5 years  | None   | \$77,120 **             |
| 25-2051               | Special Education Teachers, Preschool                                    | Bachelor's degree                        | None   | None   | \$60,950 **             |
| 25-2052               | Special Education Teachers, Kindergarten and Elementary School           | Bachelor's degree                        | None   | None   | \$71,320 **             |
| 25-2057               | Special Education Teachers, Middle School                                | Bachelor's degree                        | None   | None   | \$63,510 **             |
| 25-2058               | Special Education Teachers, Secondary School                             | Bachelor's degree                        | None   | None   | \$71,520 **             |
| 25-3021               | Self-Enrichment Teachers   | High school diploma or equivalent        | Less than 5 years  | None   | \$16.36                 |
| 25-3031               | Substitute Teachers, Short-Term  | Bachelor's degree                        | None   | None   | \$13.96                 |
| 25-3041               | Tutors   | Some college, no degree                  | None   | None   | \$19.57                 |
| 25-3099               | Teachers and Instructors, All Other                                      | Bachelor's degree                        | None   | None   | \$45,740 **             |
| 25-4011               | Archivists   | Master's degree                          | None   | None   | \$22.14                 |
| 25-4012               | Curators   | Master's degree                          | None   | None   | \$27.23                 |
| 25-4013               | Museum Technicians and Conservators                                      | Bachelor's degree                        | None   | None   | \$21.22                 |

## Ohio Occupational Employment\* Projections Report, 2022-2024

| SOC Code <sup>1</sup> | Occupational Title**   | Typical Education**** Required for Entry | Commonly Required Work Experience in Related Occupations | Typical On-The-Job Training to Obtain Competency | Median Wage*** May 2022 |
|-----------------------|--|--|--|--|-------------------------|
| 25-4022               | Librarians and Media Collections Specialists                       | Master's degree                          | None   | None   | \$22.74                 |
| 25-4031               | Library Technicians  | Postsecondary non-degree award           | None   | None   | \$16.28                 |
| 25-9031               | Instructional Coordinators   | Master's degree                          | 5 years or more  | None   | \$31.00                 |
| 25-9044               | Teaching Assistants, Postsecondary                                 | Bachelor's degree                        | None   | None   | \$30,370 **             |
| 25-9045               | Teaching Assistants, except Postsecondary                          | Some college, no degree                  | None   | None   | \$30,940 **             |
| 25-9099               | Educational Instruction and Library Workers, All Other             | Bachelor's degree                        | None   | None   | \$18.31                 |
| <b>27-0000</b>        | <b>Arts, Design, Entertainment, Sports, and Media Occupations</b>  |  |  |  | <b>\$22.86</b>          |
| 27-1011               | Art Directors  | Bachelor's degree                        | 5 years or more  | None   | \$39.64                 |
| 27-1012               | Craft Artists  | No formal educational credential         | None   | Long-term on-the-job training                    | \$17.97                 |
| 27-1013               | Fine Artists, Including Painters, Sculptors, and Illustrators      | Bachelor's degree                        | None   | Long-term on-the-job training                    | \$21.88                 |
| 27-1019               | Artists and Related Workers, All Other                             | No formal educational credential         | None   | Long-term on-the-job training                    | \$33.06                 |
| 27-1021               | Commercial and Industrial Designers                                | Bachelor's degree                        | None   | None   | \$33.91                 |
| 27-1023               | Floral Designers   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$13.97                 |
| 27-1024               | Graphic Designers  | Bachelor's degree                        | None   | None   | \$24.14                 |
| 27-1025               | Interior Designers   | Bachelor's degree                        | None   | None   | \$27.13                 |
| 27-1026               | Merchandise Displayers and Window Trimmers                         | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$15.94                 |
| 27-1027               | Set and Exhibit Designers  | Bachelor's degree                        | None   | None   | \$24.23                 |
| 27-1029               | Designers, All Other   | Bachelor's degree                        | None   | None   | \$27.50                 |
| 27-2011               | Actors   | Some college, no degree                  | None   | Long-term on-the-job training                    | \$9.99                  |
| 27-2012               | Producers and Directors  | Bachelor's degree                        | Less than 5 years  | None   | \$28.71                 |
| 27-2022               | Coaches and Scouts   | Bachelor's degree                        | None   | None   | \$38,240 **             |
| 27-2023               | Umpires, Referees, and Other Sports Officials                      | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$39,290 **             |
| 27-2032               | Choreographers   | High school diploma or equivalent        | 5 years or more  | Long-term on-the-job training                    | \$24.54                 |
| 27-2041               | Music Directors and Composers                                      | Bachelor's degree                        | Less than 5 years  | None   | \$31.48                 |
| 27-2042               | Musicians and Singers  | No formal educational credential         | None   | Long-term on-the-job training                    | \$32.22                 |
| 27-2099               | Entertainers and Performers, Sports and Related Workers, All Other | No formal educational credential         | None   | Short-term on-the-job training                   | \$15.41                 |
| 27-3011               | Broadcast Announcers and Radio Disc Jockeys                        | Bachelor's degree                        | None   | None   | \$15.20                 |
| 27-3023               | News Analysts, Reporters, and Journalists                          | Bachelor's degree                        | None   | None   | \$18.33                 |
| 27-3031               | Public Relations Specialists                                       | Bachelor's degree                        | None   | None   | \$32.15                 |
| 27-3041               | Editors  | Bachelor's degree                        | Less than 5 years  | None   | \$30.23                 |
| 27-3042               | Technical Writers  | Bachelor's degree                        | Less than 5 years  | Short-term on-the-job training                   | \$31.20                 |
| 27-3043               | Writers and Authors  | Bachelor's degree                        | None   | Long-term on-the-job training                    | \$24.93                 |
| 27-3091               | Interpreters and Translators                                       | Bachelor's degree                        | None   | None   | \$25.01                 |
| 27-3092               | Court Reporters and Simultaneous Captioners                        | Postsecondary non-degree award           | None   | Short-term on-the-job training                   | \$27.09                 |
| 27-3099               | Media and Communication Workers, All Other                         | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$20.13                 |
| 27-4011               | Audio and Video Technicians  | Postsecondary non-degree award           | None   | Short-term on-the-job training                   | \$22.06                 |
| 27-4012               | Broadcast Technicians  | Associate's degree                       | None   | Short-term on-the-job training                   | \$19.35                 |
| 27-4021               | Photographers  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$17.67                 |
| 27-4031               | Camera Operators, Television, Video, and Film                      | Bachelor's degree                        | None   | None   | \$21.63                 |
| 27-4032               | Film and Video Editors   | Bachelor's degree                        | None   | None   | \$21.36                 |
| 27-4099               | Media and Communication Equipment Workers, All Other               | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$32.77                 |
| <b>29-0000</b>        | <b>Healthcare Practitioners and Technical Occupations</b>          |  |  |  | <b>\$33.64</b>          |
| 29-1011               | Chiropractors  | Doctoral or professional degree          | None   | None   | \$31.34                 |
| 29-1021               | Dentists, General  | Doctoral or professional degree          | None   | None   | \$73.57                 |
| 29-1023               | Orthodontists  | Doctoral or professional degree          | None   | Internship/residency                             | \$89.48                 |
| 29-1029               | Dentists, All Other Specialists                                    | Doctoral or professional degree          | None   | Internship/residency                             | \$102.28 +              |
| 29-1031               | Dietitians and Nutritionists                                       | Bachelor's degree                        | None   | Internship/residency                             | \$30.12                 |
| 29-1041               | Optometrists   | Doctoral or professional degree          | None   | None   | \$61.25                 |

## Ohio Occupational Employment\* Projections Report, 2022-2024

| SOC Code <sup>1</sup> | Occupational Title**                                       | Typical Education**** Required for Entry | Commonly Required Work Experience in Related Occupations | Typical On-The-Job Training to Obtain Competency | Median Wage*** May 2022 |
|-----------------------|--|--|--|--|-------------------------|
| 29-1051               | Pharmacists  | Doctoral or professional degree          | None   | None   | \$63.03                 |
| 29-1071               | Physician Assistants                                       | Master's degree                          | None   | None   | \$54.93                 |
| 29-1081               | Podiatrists  | Doctoral or professional degree          | None   | Internship/residency                             | \$56.40                 |
| 29-1122               | Occupational Therapists                                    | Master's degree                          | None   | None   | \$44.74                 |
| 29-1123               | Physical Therapists  | Doctoral or professional degree          | None   | None   | \$46.99                 |
| 29-1124               | Radiation Therapists                                       | Associate's degree                       | None   | None   | \$38.50                 |
| 29-1125               | Recreational Therapists                                    | Bachelor's degree                        | None   | None   | \$24.59                 |
| 29-1126               | Respiratory Therapists                                     | Associate's degree                       | None   | None   | \$31.61                 |
| 29-1127               | Speech-Language Pathologists                               | Master's degree                          | None   | Internship/residency                             | \$39.80                 |
| 29-1128               | Exercise Physiologists                                     | Bachelor's degree                        | None   | None   | \$23.42                 |
| 29-1131               | Veterinarians  | Doctoral or professional degree          | None   | None   | \$50.22                 |
| 29-1141               | Registered Nurses  | Bachelor's degree                        | None   | None   | \$36.93                 |
| 29-1151               | Nurse Anesthetists   | Master's degree                          | None   | None   | \$85.82                 |
| 29-1161               | Nurse Midwives   | Master's degree                          | None   | None   | \$62.63                 |
| 29-1171               | Nurse Practitioners  | Master's degree                          | None   | None   | \$54.35                 |
| 29-1181               | Audiologists   | Doctoral or professional degree          | None   | None   | \$36.99                 |
| 29-1211               | Anesthesiologists  | Doctoral or professional degree          | None   | Internship/residency                             | #                       |
| 29-1212               | Cardiologists  | Doctoral or professional degree          | None   | Internship/residency                             | #                       |
| 29-1213               | Dermatologists   | Doctoral or professional degree          | None   | Internship/residency                             | #                       |
| 29-1214               | Emergency Medicine Physicians                              | Doctoral or professional degree          | None   | Internship/residency                             | #                       |
| 29-1215               | Family Medicine Physicians                                 | Doctoral or professional degree          | None   | Internship/residency                             | \$74.40                 |
| 29-1216               | General Internal Medicine Physicians                       | Doctoral or professional degree          | None   | Internship/residency                             | \$75.82                 |
| 29-1217               | Neurologists   | Doctoral or professional degree          | None   | Internship/residency                             | \$107.82 +              |
| 29-1218               | Obstetricians and Gynecologists                            | Doctoral or professional degree          | None   | Internship/residency                             | \$81.10                 |
| 29-1221               | Pediatricians, General                                     | Doctoral or professional degree          | None   | Internship/residency                             | \$103.27                |
| 29-1223               | Psychiatrists  | Doctoral or professional degree          | None   | Internship/residency                             | \$111.16                |
| 29-1229               | Physicians, All Other                                      | Doctoral or professional degree          | None   | Internship/residency                             | \$88.87                 |
| 29-1241               | Ophthalmologists, except Pediatric                         | Doctoral or professional degree          | None   | Internship/residency                             | #                       |
| 29-1242               | Orthopedic Surgeons, except Pediatric                      | Doctoral or professional degree          | None   | Internship/residency                             | #                       |
| 29-1249               | Surgeons, All Other  | Doctoral or professional degree          | None   | Internship/residency                             | #                       |
| 29-1292               | Dental Hygienists  | Associate's degree                       | None   | None   | \$36.71                 |
| 29-1299               | Healthcare Diagnosing or Treating Practitioners, All Other | Master's degree                          | None   | None   | \$38.76                 |
| 29-2010               | Clinical Laboratory Technologists and Technicians          | Bachelor's degree                        | None   | None   | \$27.59                 |
| 29-2031               | Cardiovascular Technologists and Technicians               | Associate's degree                       | None   | None   | \$31.18                 |
| 29-2032               | Diagnostic Medical Sonographers                            | Associate's degree                       | None   | None   | \$37.87                 |
| 29-2033               | Nuclear Medicine Technologists                             | Associate's degree                       | None   | None   | \$38.43                 |
| 29-2034               | Radiologic Technologists and Technicians                   | Associate's degree                       | None   | None   | \$30.70                 |
| 29-2035               | Magnetic Resonance Imaging Technologists                   | Associate's degree                       | Less than 5 years  | None   | \$36.75                 |
| 29-2042               | Emergency Medical Technicians                              | Postsecondary non-degree award           | None   | None   | \$17.36                 |
| 29-2043               | Paramedics   | Postsecondary non-degree award           | Less than 5 years  | None   | \$22.41                 |
| 29-2051               | Dietetic Technicians                                       | Associate's degree                       | None   | None   | \$16.20                 |
| 29-2052               | Pharmacy Technicians                                       | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$17.55                 |
| 29-2053               | Psychiatric Technicians                                    | Postsecondary non-degree award           | Less than 5 years  | Short-term on-the-job training                   | \$16.95                 |
| 29-2055               | Surgical Technologists                                     | Postsecondary non-degree award           | None   | None   | \$24.83                 |
| 29-2056               | Veterinary Technologists and Technicians                   | Associate's degree                       | None   | None   | \$17.95                 |
| 29-2057               | Ophthalmic Medical Technicians                             | Postsecondary non-degree award           | None   | None   | \$18.70                 |
| 29-2061               | Licensed Practical and Licensed Vocational Nurses          | Postsecondary non-degree award           | None   | None   | \$24.32                 |
| 29-2072               | Medical Records Specialists                                | Postsecondary non-degree award           | None   | None   | \$22.15                 |

## Ohio Occupational Employment\* Projections Report, 2022-2024

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|-----------------------|---|--|--|--|-------------------------|
| 29-2081               | Opticians, Dispensing   | High school diploma or equivalent        | None   | Long-term on-the-job training                    | \$19.94                 |
| 29-2091               | Orthotists and Prosthetists   | Master's degree                          | None   | Internship/residency                             | \$28.56                 |
| 29-2092               | Hearing Aid Specialists   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$30.07                 |
| 29-2099               | Health Technologists and Technicians, All Other                           | Postsecondary non-degree award           | None   | None   | \$18.80                 |
| 29-9021               | Health Information Technologists and Medical Registrars                   | Associate's degree                       | None   | None   | \$27.85                 |
| 29-9091               | Athletic Trainers   | Master's degree                          | None   | None   | \$51,850 **             |
| 29-9092               | Genetic Counselors  | Master's degree                          | None   | None   | \$39.43                 |
| 29-9093               | Surgical Assistants   | Postsecondary non-degree award           | None   | None   | \$22.75                 |
| 29-9099               | Healthcare Practitioners and Technical Workers, All Other                 | Postsecondary non-degree award           | None   | None   | \$19.22                 |
| <b>31-0000</b>        | <b>Healthcare Support Occupations</b>                                     |  |  |  | <b>\$14.95</b>          |
| 31-1120               | Home Health and Personal Care Aides                                       | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$13.19                 |
| 31-1131               | Nursing Assistants  | Postsecondary non-degree award           | None   | None   | \$16.82                 |
| 31-1132               | Orderlies   | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$16.97                 |
| 31-1133               | Psychiatric Aides   | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$18.19                 |
| 31-2011               | Occupational Therapy Assistants   | Associate's degree                       | None   | None   | \$29.57                 |
| 31-2021               | Physical Therapist Assistants   | Associate's degree                       | None   | None   | \$29.88                 |
| 31-2022               | Physical Therapist Aides  | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$15.32                 |
| 31-9011               | Massage Therapists  | Postsecondary non-degree award           | None   | None   | \$22.67                 |
| 31-9091               | Dental Assistants   | Postsecondary non-degree award           | None   | None   | \$21.62                 |
| 31-9092               | Medical Assistants  | Postsecondary non-degree award           | None   | None   | \$17.74                 |
| 31-9093               | Medical Equipment Preparers   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$18.85                 |
| 31-9094               | Medical Transcriptionists   | Postsecondary non-degree award           | None   | None   | \$15.47                 |
| 31-9095               | Pharmacy Aides  | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$14.51                 |
| 31-9096               | Veterinary Assistants and Laboratory Animal Caretakers                    | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$14.35                 |
| 31-9097               | Phlebotomists   | Postsecondary non-degree award           | None   | None   | \$17.53                 |
| 31-9099               | Healthcare Support Workers, All Other                                     | High school diploma or equivalent        | None   | None   | \$19.24                 |
| <b>33-0000</b>        | <b>Protective Service Occupations</b>                                     |  |  |  | <b>\$22.69</b>          |
| 33-1011               | First-Line Supervisors of Correctional Officers                           | High school diploma or equivalent        | Less than 5 years  | None   | \$35.62                 |
| 33-1012               | First-Line Supervisors of Police and Detectives                           | High school diploma or equivalent        | Less than 5 years  | Moderate-term on-the-job training                | \$45.90                 |
| 33-1021               | First-Line Supervisors of Firefighting and Prevention Workers             | Postsecondary non-degree award           | Less than 5 years  | Moderate-term on-the-job training                | \$37.69                 |
| 33-1091               | First-Line Supervisors of Security Workers                                | High school diploma or equivalent        | Less than 5 years  | None   | \$22.90                 |
| 33-1099               | First-Line Supervisors of Protective Service Workers, All Other           | High school diploma or equivalent        | Less than 5 years  | None   | \$28.85                 |
| 33-2011               | Firefighters  | Postsecondary non-degree award           | None   | Long-term on-the-job training                    | \$23.99                 |
| 33-2021               | Fire Inspectors and Investigators   | Postsecondary non-degree award           | 5 years or more  | Moderate-term on-the-job training                | \$46.60                 |
| 33-3011               | Bailiffs  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$22.64                 |
| 33-3012               | Correctional Officers and Jailers   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$24.51                 |
| 33-3021               | Detectives and Criminal Investigators                                     | High school diploma or equivalent        | Less than 5 years  | Moderate-term on-the-job training                | \$36.67                 |
| 33-3031               | Fish and Game Wardens   | Bachelor's degree                        | None   | Moderate-term on-the-job training                | \$34.77                 |
| 33-3051               | Police and Sheriff's Patrol Officers                                      | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$34.18                 |
| 33-9011               | Animal Control Workers  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$18.03                 |
| 33-9021               | Private Detectives and Investigators                                      | High school diploma or equivalent        | Less than 5 years  | Moderate-term on-the-job training                | \$23.88                 |
| 33-9031               | Gambling Surveillance Officers and Gambling Investigators                 | High school diploma or equivalent        | Less than 5 years  | Moderate-term on-the-job training                | \$23.36                 |
| 33-9032               | Security Guards   | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$14.21                 |
| 33-9091               | Crossing Guards and Flaggers  | No formal educational credential         | None   | Short-term on-the-job training                   | \$13.51                 |
| 33-9092               | Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers | No formal educational credential         | None   | Short-term on-the-job training                   | \$10.60                 |
| 33-9093               | Transportation Security Screeners   | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$23.49                 |
| 33-9094               | School Bus Monitors   | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$13.90                 |
| 33-9099               | Protective Service Workers, All Other                                     | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$16.64                 |

## Ohio Occupational Employment\* Projections Report, 2022-2024

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|-----------------------|--|--|--|--|-------------------------|
| <b>35-0000</b>        | <b><i>Food Preparation and Serving Related Occupations</i></b>           |  |  |  | <b>\$13.04</b>          |
| 35-1011               | Chefs and Head Cooks   | High school diploma or equivalent        | 5 years or more  | None   | \$21.46                 |
| 35-1012               | First-Line Supervisors of Food Preparation and Serving Workers           | High school diploma or equivalent        | Less than 5 years  | None   | \$16.80                 |
| 35-2011               | Cooks, Fast Food   | No formal educational credential         | None   | Short-term on-the-job training                   | \$12.48                 |
| 35-2012               | Cooks, Institution and Cafeteria   | No formal educational credential         | None   | Short-term on-the-job training                   | \$16.01                 |
| 35-2013               | Cooks, Private Household   | Postsecondary non-degree award           | Less than 5 years  | None   | \$18.54 +               |
| 35-2014               | Cooks, Restaurant  | No formal educational credential         | Less than 5 years  | Moderate-term on-the-job training                | \$14.19                 |
| 35-2015               | Cooks, Short Order   | No formal educational credential         | None   | Short-term on-the-job training                   | \$11.27                 |
| 35-2019               | Cooks, All Other   | No formal educational credential         | None   | Moderate-term on-the-job training                | \$14.71                 |
| 35-2021               | Food Preparation Workers   | No formal educational credential         | None   | Short-term on-the-job training                   | \$12.65                 |
| 35-3011               | Bartenders   | No formal educational credential         | None   | Short-term on-the-job training                   | \$11.26                 |
| 35-3023               | Fast Food and Counter Workers  | No formal educational credential         | None   | Short-term on-the-job training                   | \$11.44                 |
| 35-3031               | Waiters and Waitresses   | No formal educational credential         | None   | Short-term on-the-job training                   | \$11.25                 |
| 35-3041               | Food Servers, Nonrestaurant  | No formal educational credential         | None   | Short-term on-the-job training                   | \$13.33                 |
| 35-9011               | Dining Room and Cafeteria Attendants and Bartender Helpers               | No formal educational credential         | None   | Short-term on-the-job training                   | \$11.43                 |
| 35-9021               | Dishwashers  | No formal educational credential         | None   | Short-term on-the-job training                   | \$11.61                 |
| 35-9031               | Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop                 | No formal educational credential         | None   | Short-term on-the-job training                   | \$10.70                 |
| 35-9099               | Food Preparation and Serving Related Workers, All Other                  | No formal educational credential         | None   | Short-term on-the-job training                   | \$11.56                 |
| <b>37-0000</b>        | <b><i>Building and Grounds Cleaning and Maintenance Occupations</i></b>  |  |  |  | <b>\$14.77</b>          |
| 37-1011               | First-Line Supervisors of Housekeeping and Janitorial Workers            | High school diploma or equivalent        | Less than 5 years  | None   | \$20.67                 |
| 37-1012               | FL Sup of Landscaping, Lawn Service, and Groundskeeping Workers          | High school diploma or equivalent        | Less than 5 years  | None   | \$24.14                 |
| 37-2011               | Janitors and Cleaners, except Maids and Housekeeping Cleaners            | No formal educational credential         | None   | Short-term on-the-job training                   | \$14.39                 |
| 37-2012               | Maids and Housekeeping Cleaners  | No formal educational credential         | None   | Short-term on-the-job training                   | \$13.18                 |
| 37-3011               | Landscaping and Groundskeeping Workers                                   | No formal educational credential         | None   | Short-term on-the-job training                   | \$16.61                 |
| 37-3012               | Pesticide Handlers, Sprayers, and Applicators, Vegetation                | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$21.88                 |
| <b>39-0000</b>        | <b><i>Personal Care and Service Occupations</i></b>                      |  |  |  | <b>\$13.65</b>          |
| 39-1014               | FL Sup of Entertainment and Recreation Workers, except Gambling Services | High school diploma or equivalent        | Less than 5 years  | None   | \$18.21                 |
| 39-1022               | First-Line Supervisors of Personal Service Workers                       | High school diploma or equivalent        | Less than 5 years  | None   | \$18.60                 |
| 39-2011               | Animal Trainers  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$14.10                 |
| 39-2021               | Animal Caretakers  | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$13.23                 |
| 39-3011               | Gambling Dealers   | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$10.37                 |
| 39-3031               | Ushers, Lobby Attendants, and Ticket Takers                              | No formal educational credential         | None   | Short-term on-the-job training                   | \$13.05                 |
| 39-3091               | Amusement and Recreation Attendants                                      | No formal educational credential         | None   | Short-term on-the-job training                   | \$10.81                 |
| 39-3093               | Locker Room, Coatroom, and Dressing Room Attendants                      | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$14.20                 |
| 39-4011               | Embalmers  | Associate's degree                       | None   | Long-term on-the-job training                    | \$29.58                 |
| 39-4012               | Crematory Operators  | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$21.70                 |
| 39-4021               | Funeral Attendants   | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$14.50                 |
| 39-4031               | Morticians, Undertakers, and Funeral Arrangers                           | Associate's degree                       | None   | Long-term on-the-job training                    | \$31.25                 |
| 39-5012               | Hairdressers, Hairstylists, and Cosmetologists                           | Postsecondary non-degree award           | None   | None   | \$14.45                 |
| 39-5092               | Manicurists and Pedicurists  | Postsecondary non-degree award           | None   | None   | \$14.43                 |
| 39-5093               | Shampooers   | No formal educational credential         | None   | Short-term on-the-job training                   | \$12.00                 |
| 39-5094               | Skincare Specialists   | Postsecondary non-degree award           | None   | None   | \$20.62                 |
| 39-6011               | Baggage Porters and Bellhops   | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$10.41                 |
| 39-6012               | Concierges   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$14.27                 |
| 39-7010               | Tour and Travel Guides   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$12.56                 |
| 39-9011               | Childcare Workers  | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$13.15                 |
| 39-9031               | Exercise Trainers and Group Fitness Instructors                          | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$16.87                 |
| 39-9032               | Recreation Workers   | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$12.94                 |

## Ohio Occupational Employment\* Projections Report, 2022-2024

| SOC Code <sup>1</sup> | Occupational Title**   | Typical Education**** Required for Entry | Commonly Required Work Experience in Related Occupations | Typical On-The-Job Training to Obtain Competency | Median Wage*** May 2022 |
|-----------------------|--|--|--|--|-------------------------|
| 39-9041               | Residential Advisors   | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$15.46                 |
| <b>41-0000</b>        | <b>Sales and Related Occupations</b>   |  |  |  | <b>\$15.50</b>          |
| 41-1011               | First-Line Supervisors of Retail Sales Workers                                     | High school diploma or equivalent        | Less than 5 years  | None   | \$19.84                 |
| 41-1012               | First-Line Supervisors of Non-Retail Sales Workers                                 | High school diploma or equivalent        | Less than 5 years  | None   | \$41.24                 |
| 41-2011               | Cashiers   | No formal educational credential         | None   | Short-term on-the-job training                   | \$12.21                 |
| 41-2012               | Gambling Change Persons and Booth Cashiers   | No formal educational credential         | None   | Short-term on-the-job training                   | \$14.41                 |
| 41-2021               | Counter and Rental Clerks  | No formal educational credential         | None   | Short-term on-the-job training                   | \$15.90                 |
| 41-2022               | Parts Salespersons   | No formal educational credential         | None   | Moderate-term on-the-job training                | \$16.67                 |
| 41-2031               | Retail Salespersons  | No formal educational credential         | None   | Short-term on-the-job training                   | \$13.93                 |
| 41-3011               | Advertising Sales Agents   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$22.66                 |
| 41-3021               | Insurance Sales Agents   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$28.12                 |
| 41-3031               | Securities, Commodities, and Financial Services Sales Agents                       | Bachelor's degree                        | None   | Moderate-term on-the-job training                | \$29.42                 |
| 41-3041               | Travel Agents  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$17.34                 |
| 41-3091               | Sales Representatives, Services, ex. Advertising, Insurance, Financial, and Travel | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$28.55                 |
| 41-4011               | Sales Rep., Wholesale & Mfg, Tech./Sci. Prod.                                      | Bachelor's degree                        | None   | Moderate-term on-the-job training                | \$48.22                 |
| 41-4012               | Sales Rep., Wholesale/Mfg, ex. Tech./Sci. Prod.                                    | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$31.29                 |
| 41-9011               | Demonstrators and Product Promoters  | No formal educational credential         | None   | Short-term on-the-job training                   | \$17.76                 |
| 41-9021               | Real Estate Brokers  | High school diploma or equivalent        | Less than 5 years  | None   | \$30.57                 |
| 41-9022               | Real Estate Sales Agents   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$17.27                 |
| 41-9031               | Sales Engineers  | Bachelor's degree                        | None   | Moderate-term on-the-job training                | \$45.32                 |
| 41-9041               | Telemarketers  | No formal educational credential         | None   | Short-term on-the-job training                   | \$13.76                 |
| 41-9091               | Door-to-Door Sales Workers, News and Street Vendors, and Related Workers           | No formal educational credential         | None   | Short-term on-the-job training                   | \$12.36                 |
| 41-9099               | Sales and Related Workers, All Other   | High school diploma or equivalent        | None   | None   | \$16.59                 |
| <b>43-0000</b>        | <b>Office and Administrative Support Occupations</b>                               |  |  |  | <b>\$18.92</b>          |
| 43-1011               | First-Line Supervisors of Office and Administrative Support Workers                | High school diploma or equivalent        | Less than 5 years  | None   | \$28.64                 |
| 43-2011               | Switchboard Operators, Including Answering Service                                 | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$15.89                 |
| 43-2021               | Telephone Operators  | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$15.85                 |
| 43-3011               | Bill and Account Collectors  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$17.94                 |
| 43-3021               | Billing and Posting Clerks   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$18.82                 |
| 43-3031               | Bookkeeping, Accounting, and Auditing Clerks                                       | Some college, no degree                  | None   | Moderate-term on-the-job training                | \$21.23                 |
| 43-3041               | Gambling Cage Workers  | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$13.05                 |
| 43-3051               | Payroll and Timekeeping Clerks   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$22.21                 |
| 43-3061               | Procurement Clerks   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$20.35                 |
| 43-3071               | Tellers  | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$17.27                 |
| 43-3099               | Financial Clerks, All Other  | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$22.11                 |
| 43-4011               | Brokerage Clerks   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$25.19                 |
| 43-4021               | Correspondence Clerks  | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$18.06                 |
| 43-4031               | Court, Municipal, and License Clerks   | High school diploma or equivalent        | None   | Long-term on-the-job training                    | \$18.89                 |
| 43-4041               | Credit Authorizers, Checkers, and Clerks   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$22.46                 |
| 43-4051               | Customer Service Representatives   | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$18.30                 |
| 43-4061               | Eligibility Interviewers, Government Programs                                      | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$22.21                 |
| 43-4071               | File Clerks  | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$18.65                 |
| 43-4081               | Hotel, Motel, and Resort Desk Clerks   | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$13.12                 |
| 43-4111               | Interviewers, except Eligibility and Loan  | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$18.00                 |
| 43-4121               | Library Assistants, Clerical   | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$13.91                 |
| 43-4131               | Loan Interviewers and Clerks   | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$21.86                 |
| 43-4141               | New Accounts Clerks  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$21.80                 |
| 43-4151               | Order Clerks   | Some college, no degree                  | None   | Short-term on-the-job training                   | \$18.47                 |

## Ohio Occupational Employment\* Projections Report, 2022-2024

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|-----------------------|---|--|--|--|-------------------------|
| 43-4161               | Human Resources Assistants, except Payroll and Timekeeping                      | Associate's degree                       | None   | None   | \$21.54                 |
| 43-4171               | Receptionists and Information Clerks  | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$14.79                 |
| 43-4181               | Reservation and Transportation Ticket Agents and Travel Clerks                  | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$16.70                 |
| 43-4199               | Information and Record Clerks, All Other  | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$22.20                 |
| 43-5011               | Cargo and Freight Agents  | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$19.83                 |
| 43-5021               | Couriers and Messengers   | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$15.20                 |
| 43-5031               | Public Safety Telecommunicators   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$23.52                 |
| 43-5032               | Dispatchers, except Police, Fire, and Ambulance                                 | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$21.13                 |
| 43-5041               | Meter Readers, Utilities  | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$25.37                 |
| 43-5051               | Postal Service Clerks   | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$27.05                 |
| 43-5052               | Postal Service Mail Carriers  | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$26.75                 |
| 43-5053               | Postal Service Mail Sorters, Processors, and Processing Machine Operators       | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$23.62                 |
| 43-5061               | Production, Planning, and Expediting Clerks                                     | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$24.02                 |
| 43-5071               | Shipping, Receiving, and Inventory Clerks                                       | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$18.16                 |
| 43-5111               | Weighers, Measurers, Checkers, and Samplers, Recordkeeping                      | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$18.20                 |
| 43-6011               | Executive Secretaries and Executive Administrative Assistants                   | High school diploma or equivalent        | Less than 5 years  | None   | \$29.92                 |
| 43-6012               | Legal Secretaries and Administrative Assistants                                 | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$20.96                 |
| 43-6013               | Medical Secretaries and Administrative Assistants                               | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$18.15                 |
| 43-6014               | Secretaries and Administrative Assistants, except Legal, Medical, and Executive | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$18.61                 |
| 43-9021               | Data Entry Keyers   | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$17.50                 |
| 43-9022               | Word Processors and Typists   | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$20.75                 |
| 43-9031               | Desktop Publishers  | Associate's degree                       | None   | Short-term on-the-job training                   | \$20.08                 |
| 43-9041               | Insurance Claims and Policy Processing Clerks                                   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$22.66                 |
| 43-9051               | Mail Clerks and Mail Machine Operators, except Postal Service                   | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$16.15                 |
| 43-9061               | Office Clerks, General  | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$18.29                 |
| 43-9071               | Office Machine Operators, except Computer                                       | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$18.29                 |
| 43-9081               | Proofreaders and Copy Markers   | Bachelor's degree                        | None   | None   | \$16.95                 |
| 43-9111               | Statistical Assistants  | Bachelor's degree                        | None   | None   | \$30.26                 |
| 43-9199               | Office and Administrative Support Workers, All Other                            | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$15.19                 |
| <b>45-0000</b>        | <b>Farming, Fishing, and Forestry Occupations</b>                               |  |  |  | <b>\$17.81</b>          |
| 45-1011               | First-Line Supervisors of Farming, Fishing, and Forestry Workers                | High school diploma or equivalent        | Less than 5 years  | None   | \$24.48                 |
| 45-2011               | Agricultural Inspectors   | Bachelor's degree                        | None   | Moderate-term on-the-job training                | \$29.87                 |
| 45-2041               | Graders and Sorters, Agricultural Products                                      | No formal educational credential         | None   | Short-term on-the-job training                   | \$18.41                 |
| 45-2091               | Agricultural Equipment Operators  | No formal educational credential         | None   | Moderate-term on-the-job training                | \$21.00                 |
| 45-2092               | Farmworkers and Laborers, Crop, Nursery, and Greenhouse                         | No formal educational credential         | None   | Short-term on-the-job training                   | \$16.47                 |
| 45-2093               | Farmworkers, Farm, Ranch, and Aquacultural Animals                              | No formal educational credential         | None   | Short-term on-the-job training                   | \$14.58                 |
| 45-4021               | Fallers   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$23.88                 |
| 45-4022               | Logging Equipment Operators   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$19.05                 |
| 45-4023               | Log Graders and Scalers   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$17.63                 |
| 45-4029               | Logging Workers, All Other  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$14.67                 |
| <b>47-0000</b>        | <b>Construction and Extraction Occupations</b>                                  |  |  |  | <b>\$27.18</b>          |
| 47-1011               | First-Line Supervisors of Construction Trades and Extraction Workers            | High school diploma or equivalent        | 5 years or more  | None   | \$34.62                 |
| 47-2011               | Boilermakers  | High school diploma or equivalent        | None   | Apprenticeship                                   | \$43.17                 |
| 47-2021               | Brickmasons and Blockmasons   | High school diploma or equivalent        | None   | Apprenticeship                                   | \$30.21                 |
| 47-2031               | Carpenters  | High school diploma or equivalent        | None   | Apprenticeship                                   | \$26.22                 |
| 47-2041               | Carpet Installers   | No formal educational credential         | None   | Short-term on-the-job training                   | \$23.63                 |
| 47-2042               | Floor Layers, except Carpet, Wood, and Hard Tiles                               | No formal educational credential         | None   | Moderate-term on-the-job training                | \$23.80                 |
| 47-2044               | Tile and Stone Setters  | No formal educational credential         | None   | Long-term on-the-job training                    | \$22.67                 |

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|-----------------------|---|--|--|--|-------------------------|
| 47-2051               | Cement Masons and Concrete Finishers  | No formal educational credential         | None   | Moderate-term on-the-job training                | \$23.82                 |
| 47-2061               | Construction Laborers   | No formal educational credential         | None   | Short-term on-the-job training                   | \$22.86                 |
| 47-2071               | Paving, Surfacing, and Tamping Equipment Operators                            | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$31.09                 |
| 47-2073               | Operating Engineers and Other Construction Equipment Operators                | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$28.46                 |
| 47-2081               | Drywall and Ceiling Tile Installers   | No formal educational credential         | None   | Moderate-term on-the-job training                | \$24.26                 |
| 47-2082               | Tapers  | No formal educational credential         | None   | Moderate-term on-the-job training                | \$29.94                 |
| 47-2111               | Electricians  | High school diploma or equivalent        | None   | Apprenticeship                                   | \$28.93                 |
| 47-2121               | Glaziers  | High school diploma or equivalent        | None   | Apprenticeship                                   | \$24.70                 |
| 47-2131               | Insulation Workers, Floor, Ceiling, and Wall                                  | No formal educational credential         | None   | Short-term on-the-job training                   | \$20.79                 |
| 47-2132               | Insulation Workers, Mechanical  | High school diploma or equivalent        | None   | Apprenticeship                                   | \$27.89                 |
| 47-2141               | Painters, Construction and Maintenance  | No formal educational credential         | None   | Moderate-term on-the-job training                | \$22.50                 |
| 47-2142               | Paperhangers  | No formal educational credential         | None   | Long-term on-the-job training                    | \$13.88                 |
| 47-2151               | Pipelayers  | No formal educational credential         | None   | Short-term on-the-job training                   | \$24.36                 |
| 47-2152               | Plumbers, Pipefitters, and Steamfitters                                       | High school diploma or equivalent        | None   | Apprenticeship                                   | \$30.26                 |
| 47-2161               | Plasterers and Stucco Masons  | No formal educational credential         | None   | Long-term on-the-job training                    | \$26.06                 |
| 47-2181               | Roofers   | No formal educational credential         | None   | Moderate-term on-the-job training                | \$22.79                 |
| 47-2211               | Sheet Metal Workers   | High school diploma or equivalent        | None   | Apprenticeship                                   | \$31.14                 |
| 47-2221               | Structural Iron and Steel Workers   | High school diploma or equivalent        | None   | Apprenticeship                                   | \$31.85                 |
| 47-3011               | Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters   | No formal educational credential         | None   | Short-term on-the-job training                   | \$21.46                 |
| 47-3012               | Helpers--Carpenters   | No formal educational credential         | None   | Short-term on-the-job training                   | \$17.31                 |
| 47-3013               | Helpers--Electricians   | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$17.31                 |
| 47-3015               | Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters                  | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$17.04                 |
| 47-3019               | Helpers, Construction Trades, All Other                                       | No formal educational credential         | None   | Short-term on-the-job training                   | \$20.84                 |
| 47-4011               | Construction and Building Inspectors  | High school diploma or equivalent        | 5 years or more  | Moderate-term on-the-job training                | \$30.62                 |
| 47-4021               | Elevator and Escalator Installers and Repairers                               | High school diploma or equivalent        | None   | Apprenticeship                                   | \$50.19                 |
| 47-4041               | Hazardous Materials Removal Workers   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$22.01                 |
| 47-4051               | Highway Maintenance Workers   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$22.06                 |
| 47-4071               | Septic Tank Servicers and Sewer Pipe Cleaners                                 | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$22.31                 |
| 47-4090               | Miscellaneous Construction and Related Workers                                | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$18.21                 |
| 47-5012               | Rotary Drill Operators, Oil and Gas   | No formal educational credential         | None   | Moderate-term on-the-job training                | \$28.93                 |
| 47-5013               | Service Unit Operators, Oil and Gas   | No formal educational credential         | None   | Moderate-term on-the-job training                | \$22.99                 |
| 47-5022               | Excavating and Loading Machine and Dragline Operators, Surface Mining         | High school diploma or equivalent        | Less than 5 years  | Moderate-term on-the-job training                | \$23.69                 |
| 47-5023               | Earth Drillers, except Oil and Gas  | High school diploma or equivalent        | Less than 5 years  | Long-term on-the-job training                    | \$24.32                 |
| 47-5041               | Continuous Mining Machine Operators   | No formal educational credential         | None   | Moderate-term on-the-job training                | \$23.50                 |
| 47-5071               | Roustabouts, Oil and Gas  | No formal educational credential         | None   | Moderate-term on-the-job training                | \$15.00                 |
| <b>49-0000</b>        | <b>Installation, Maintenance, and Repair Occupations</b>                      |  |  |  | <b>\$23.74</b>          |
| 49-1011               | First-Line Supervisors of Mechanics, Installers, and Repairers                | High school diploma or equivalent        | Less than 5 years  | None   | \$33.78                 |
| 49-2011               | Computer, Automated Teller, and Office Machine Repairers                      | Some college, no degree                  | None   | Short-term on-the-job training                   | \$18.33                 |
| 49-2021               | Radio, Cellular, and Tower Equipment Installers and Repairers                 | Associate's degree                       | None   | Moderate-term on-the-job training                | \$23.04                 |
| 49-2022               | Telecommunications Equipment Installers and Repairers, except Line Installers | Postsecondary non-degree award           | None   | Moderate-term on-the-job training                | \$29.82                 |
| 49-2091               | Avionics Technicians  | Associate's degree                       | None   | None   | \$27.71                 |
| 49-2092               | Electric Motor, Power Tool, and Related Repairers                             | High school diploma or equivalent        | Less than 5 years  | Moderate-term on-the-job training                | \$28.84                 |
| 49-2093               | Electrical and Electronics Installers and Repairers, Transportation Equipment | Postsecondary non-degree award           | None   | Long-term on-the-job training                    | \$35.38                 |
| 49-2094               | Electrical and Electronics Repairers, Commercial and Industrial Equipment     | Postsecondary non-degree award           | None   | Long-term on-the-job training                    | \$31.15                 |
| 49-2095               | Electrical and Electronics Repairers, Powerhouse, Substation, and Relay       | Postsecondary non-degree award           | Less than 5 years  | Moderate-term on-the-job training                | \$42.32                 |
| 49-2096               | Electronic Equipment Installers and Repairers, Motor Vehicles                 | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$20.55                 |
| 49-2097               | Audiovisual Equipment Installers and Repairers                                | Postsecondary non-degree award           | None   | Short-term on-the-job training                   | \$18.79                 |
| 49-2098               | Security and Fire Alarm Systems Installers                                    | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$23.63                 |

## Ohio Occupational Employment\* Projections Report, 2022-2024

| SOC Code <sup>1</sup> | Occupational Title**   | Typical Education**** Required for Entry | Commonly Required Work Experience in Related Occupations | Typical On-The-Job Training to Obtain Competency | Median Wage*** May 2022 |
|-----------------------|--|--|--|--|-------------------------|
| 49-3011               | Aircraft Mechanics and Service Technicians   | Postsecondary non-degree award           | None   | None   | \$33.87                 |
| 49-3021               | Automotive Body and Related Repairers  | High school diploma or equivalent        | None   | Long-term on-the-job training                    | \$21.61                 |
| 49-3022               | Automotive Glass Installers and Repairers  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$23.36                 |
| 49-3023               | Automotive Service Technicians and Mechanics   | Postsecondary non-degree award           | None   | Short-term on-the-job training                   | \$21.36                 |
| 49-3031               | Bus and Truck Mechanics and Diesel Engine Specialists                                  | High school diploma or equivalent        | None   | Long-term on-the-job training                    | \$24.02                 |
| 49-3041               | Farm Equipment Mechanics and Service Technicians                                       | High school diploma or equivalent        | None   | Long-term on-the-job training                    | \$22.14                 |
| 49-3042               | Mobile Heavy Equipment Mechanics, except Engines                                       | High school diploma or equivalent        | None   | Long-term on-the-job training                    | \$27.38                 |
| 49-3043               | Rail Car Repairers   | High school diploma or equivalent        | None   | Long-term on-the-job training                    | \$29.16                 |
| 49-3051               | Motorboat Mechanics and Service Technicians  | High school diploma or equivalent        | None   | Long-term on-the-job training                    | \$22.21                 |
| 49-3052               | Motorcycle Mechanics   | Postsecondary non-degree award           | None   | Short-term on-the-job training                   | \$18.66                 |
| 49-3053               | Outdoor Power Equipment and Other Small Engine Mechanics                               | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$20.38                 |
| 49-3091               | Bicycle Repairers  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$14.10                 |
| 49-3092               | Recreational Vehicle Service Technicians   | High school diploma or equivalent        | None   | Long-term on-the-job training                    | \$17.67                 |
| 49-3093               | Tire Repairers and Changers  | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$16.87                 |
| 49-9011               | Mechanical Door Repairers  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$23.17                 |
| 49-9012               | Control and Valve Installers and Repairers, except Mechanical Door                     | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$36.48                 |
| 49-9021               | Heating, Air Conditioning, and Refrigeration Mechanics and Installers                  | Postsecondary non-degree award           | None   | Long-term on-the-job training                    | \$24.31                 |
| 49-9031               | Home Appliance Repairers   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$21.87                 |
| 49-9041               | Industrial Machinery Mechanics   | High school diploma or equivalent        | None   | Long-term on-the-job training                    | \$28.64                 |
| 49-9043               | Maintenance Workers, Machinery   | High school diploma or equivalent        | None   | Long-term on-the-job training                    | \$24.93                 |
| 49-9044               | Millwrights  | High school diploma or equivalent        | None   | Apprenticeship                                   | \$33.74                 |
| 49-9051               | Electrical Power-Line Installers and Repairers   | High school diploma or equivalent        | None   | Long-term on-the-job training                    | \$40.30                 |
| 49-9052               | Telecommunications Line Installers and Repairers                                       | High school diploma or equivalent        | None   | Long-term on-the-job training                    | \$22.96                 |
| 49-9062               | Medical Equipment Repairers  | Associate's degree                       | None   | Moderate-term on-the-job training                | \$29.36                 |
| 49-9063               | Musical Instrument Repairers and Tuners  | High school diploma or equivalent        | None   | Apprenticeship                                   | \$14.36                 |
| 49-9064               | Watch and Clock Repairers  | High school diploma or equivalent        | None   | Long-term on-the-job training                    | \$22.35                 |
| 49-9069               | Precision Instrument and Equipment Repairers, All Other                                | High school diploma or equivalent        | None   | Long-term on-the-job training                    | \$30.10                 |
| 49-9071               | Maintenance and Repair Workers, General  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$22.20                 |
| 49-9091               | Coin, Vending, and Amusement Machine Servicers and Repairers                           | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$16.93                 |
| 49-9094               | Locksmiths and Safe Repairers  | High school diploma or equivalent        | None   | Long-term on-the-job training                    | \$24.48                 |
| 49-9096               | Riggers  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$25.40                 |
| 49-9098               | Helpers--Installation, Maintenance, and Repair Workers                                 | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$16.67                 |
| 49-9099               | Installation, Maintenance, and Repair Workers, All Other                               | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$19.69                 |
| <b>51-0000</b>        | <b>Production Occupations</b>  |  |  |  | <b>\$19.20</b>          |
| 51-1011               | First-Line Supervisors of Production and Operating Workers                             | High school diploma or equivalent        | Less than 5 years  | None   | \$29.76                 |
| 51-2021               | Coil Winders, Tapers, and Finishers  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$19.33                 |
| 51-2028               | Electrical, Electronic, and Electromechanical Assemblers, ex Coil Winders, Tapers, and | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$17.92                 |
| 51-2031               | Engine and Other Machine Assemblers  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$30.86                 |
| 51-2041               | Structural Metal Fabricators and Fitters   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$21.79                 |
| 51-2051               | Fiberglass Laminators and Fabricators  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$19.62                 |
| 51-2090               | Miscellaneous Assemblers and Fabricators   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$18.17                 |
| 51-3011               | Bakers   | No formal educational credential         | None   | Moderate-term on-the-job training                | \$14.59                 |
| 51-3021               | Butchers and Meat Cutters  | No formal educational credential         | None   | Long-term on-the-job training                    | \$16.27                 |
| 51-3022               | Meat, Poultry, and Fish Cutters and Trimmers   | No formal educational credential         | None   | Short-term on-the-job training                   | \$15.48                 |
| 51-3023               | Slaughterers and Meat Packers  | No formal educational credential         | None   | Short-term on-the-job training                   | \$14.94                 |
| 51-3091               | Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders            | No formal educational credential         | None   | Moderate-term on-the-job training                | \$15.37                 |
| 51-3092               | Food Batchmakers   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$19.03                 |
| 51-3093               | Food Cooking Machine Operators and Tenders   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$18.46                 |

## Ohio Occupational Employment\* Projections Report, 2022-2024

| SOC Code <sup>1</sup> | Occupational Title**   | Typical Education**** Required for Entry | Commonly Required Work Experience in Related Occupations | Typical On-The-Job Training to Obtain Competency | Median Wage*** May 2022 |
|-----------------------|--|--|--|--|-------------------------|
| 51-3099               | Food Processing Workers, All Other   | No formal educational credential         | None   | Moderate-term on-the-job training                | \$15.82                 |
| 51-4021               | Extruding and Drawing Machine S/O/T, M/P                                       | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$18.63                 |
| 51-4022               | Forging Machine S/O/T, M/P   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$21.47                 |
| 51-4023               | Rolling Machine S/O/T, M/P   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$22.19                 |
| 51-4031               | Cutting, Punching, and Press Machine S/O/T, M/P                                | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$18.46                 |
| 51-4032               | Drilling and Boring Machine Tool S/O/T, M/P                                    | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$19.69                 |
| 51-4033               | Grind/Lapping/Polish/Buff Mach. Tool S/O/T, M/P                                | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$17.89                 |
| 51-4034               | Lathe and Turning Machine Tool S/O/T, M/P                                      | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$22.47                 |
| 51-4035               | Milling and Planing Machine Setters, operators, and Tenders, metal and plastic | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$20.75                 |
| 51-4041               | Machinists   | High school diploma or equivalent        | None   | Long-term on-the-job training                    | \$22.46                 |
| 51-4051               | Metal-Refining Furnace Operators and Tenders                                   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$26.31                 |
| 51-4052               | Pourers and Casters, Metal   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$24.66                 |
| 51-4061               | Model Makers, Metal and Plastic  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$29.60                 |
| 51-4062               | Patternmakers, Metal and Plastic   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$25.38                 |
| 51-4071               | Foundry Mold and Coremakers  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$22.22                 |
| 51-4072               | Molding, Coremaking, and Casting Machine S/O/T, M/P                            | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$17.29                 |
| 51-4081               | Multiple Machine Tool S/O/T, M/P   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$19.54                 |
| 51-4111               | Tool and Die Makers  | Postsecondary non-degree award           | None   | Long-term on-the-job training                    | \$27.83                 |
| 51-4121               | Welders, Cutters, Solderers, and Brazers                                       | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$22.29                 |
| 51-4122               | Welding, Soldering, and Brazing Machine S/O/T                                  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$21.86                 |
| 51-4191               | Heat Treating Equipment S/O/T, M/P   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$21.42                 |
| 51-4193               | Plating and Coating Machine S/O/T, M/P   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$18.96                 |
| 51-4194               | Tool Grinders, Filers, and Sharpeners  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$27.97                 |
| 51-4199               | Metal Workers and Plastic Workers, All Other                                   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$22.72                 |
| 51-5111               | Prepress Technicians and Workers   | Postsecondary non-degree award           | None   | None   | \$21.08                 |
| 51-5112               | Printing Press Operators   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$18.62                 |
| 51-5113               | Print Binding and Finishing Workers  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$17.68                 |
| 51-6011               | Laundry and Dry-Cleaning Workers   | No formal educational credential         | None   | Short-term on-the-job training                   | \$13.04                 |
| 51-6021               | Pressers, Textile, Garment, and Related Materials                              | No formal educational credential         | None   | Short-term on-the-job training                   | \$13.34                 |
| 51-6031               | Sewing Machine Operators   | No formal educational credential         | None   | Short-term on-the-job training                   | \$14.66                 |
| 51-6041               | Shoe and Leather Workers and Repairers   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$14.14                 |
| 51-6051               | Sewers, Hand   | No formal educational credential         | None   | Moderate-term on-the-job training                | \$15.43                 |
| 51-6052               | Tailors, Dressmakers, and Custom Sewers  | No formal educational credential         | None   | Moderate-term on-the-job training                | \$17.97                 |
| 51-6062               | Textile Cutting Machine S/O/T  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$16.07                 |
| 51-6063               | Textile knitting and Weaving Machine S/O/T                                     | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$14.33                 |
| 51-6064               | Textile Winding, Twisting, and Drawing out S/O/T                               | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$14.64                 |
| 51-6091               | Extruding and Forming Machine S/O/T, Synthetic and Glass Fibers                | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$27.62                 |
| 51-6093               | Upholsterers   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$19.20                 |
| 51-6099               | Textile, Apparel, and Furnishings Workers, All Other                           | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$16.84                 |
| 51-7011               | Cabinetmakers and Bench Carpenters   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$18.22                 |
| 51-7021               | Furniture Finishers  | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$17.92                 |
| 51-7041               | Sawing Machine S/O/T, Wood   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$17.75                 |
| 51-7042               | Woodworking Machine S/O/T, except Sawing                                       | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$18.03                 |
| 51-7099               | Woodworkers, All Other   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$17.12                 |
| 51-8012               | Power Distributors and Dispatchers   | High school diploma or equivalent        | None   | Long-term on-the-job training                    | \$41.64                 |
| 51-8013               | Power Plant Operators  | High school diploma or equivalent        | None   | Long-term on-the-job training                    | \$40.24                 |
| 51-8021               | Stationary Engineers and Boiler Operators                                      | High school diploma or equivalent        | None   | Long-term on-the-job training                    | \$32.26                 |
| 51-8031               | Water and Wastewater Treatment Plant and System Operators                      | High school diploma or equivalent        | None   | Long-term on-the-job training                    | \$24.98                 |

## Ohio Occupational Employment\* Projections Report, 2022-2024

| SOC Code <sup>1</sup> | Occupational Title**  | Typical Education**** Required for Entry | Commonly Required Work Experience in Related Occupations | Typical On-The-Job Training to Obtain Competency | Median Wage*** May 2022 |
|-----------------------|---|--|--|--|-------------------------|
| 51-8091               | Chemical Plant and System Operators                                       | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$38.46                 |
| 51-8092               | Gas Plant Operators   | High school diploma or equivalent        | None   | Long-term on-the-job training                    | \$22.22                 |
| 51-8093               | Petroleum Pump System Operators, Refinery Operators, and Gaugers          | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$48.85                 |
| 51-8099               | Plant and System Operators, All Other                                     | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$23.10                 |
| 51-9011               | Chemical Equipment Operators and Tenders                                  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$23.57                 |
| 51-9012               | Separating, Filtering, Clarifying, Precipitating, and Still Machine S/O/T | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$21.37                 |
| 51-9021               | Crushing, Grinding, and Polishing Machine S/O/T                           | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$19.60                 |
| 51-9022               | Grinding and Polishing Workers, Hand                                      | No formal educational credential         | None   | Moderate-term on-the-job training                | \$18.55                 |
| 51-9023               | Mixing and Blending Machine S/O/T   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$19.73                 |
| 51-9031               | Cutters and Trimmers, Hand  | No formal educational credential         | None   | Short-term on-the-job training                   | \$17.47                 |
| 51-9032               | Cutting and Slicing Machine S/O/T   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$18.61                 |
| 51-9041               | Extruding, Forming, Pressing, and Compacting Machine S/O/T                | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$17.61                 |
| 51-9051               | Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders              | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$22.42                 |
| 51-9061               | Inspectors, Testers, Sorters, Samplers, and Weighers                      | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$20.88                 |
| 51-9071               | Jewelers and Precious Stone and Metal Workers                             | High school diploma or equivalent        | None   | Long-term on-the-job training                    | \$21.27                 |
| 51-9081               | Dental Laboratory Technicians   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$21.86                 |
| 51-9082               | Medical Appliance Technicians   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$19.60                 |
| 51-9083               | Ophthalmic Laboratory Technicians   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$18.52                 |
| 51-9111               | Packaging and Filling Machine Operators and Tenders                       | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$17.91                 |
| 51-9123               | Painting, Coating, and Decorating Workers                                 | No formal educational credential         | None   | Moderate-term on-the-job training                | \$20.56                 |
| 51-9124               | Coating, Painting, and Spraying Machine S/O/T                             | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$20.34                 |
| 51-9161               | Computer Numerically Controlled Tool Operators                            | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$21.59                 |
| 51-9162               | Computer Numerically Controlled Tool Programmers                          | Postsecondary non-degree award           | None   | Moderate-term on-the-job training                | \$28.45                 |
| 51-9191               | Adhesive Bonding Machine Operators and Tenders                            | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$21.59                 |
| 51-9192               | Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders     | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$22.02                 |
| 51-9193               | Cooling and Freezing Equipment Operators and Tenders                      | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$24.32                 |
| 51-9194               | Etchers and Engravers   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$18.51                 |
| 51-9195               | Molders, Shapers, and Casters, except M/P                                 | High school diploma or equivalent        | None   | Long-term on-the-job training                    | \$18.44                 |
| 51-9196               | Paper Goods Machine S/O/T   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$21.57                 |
| 51-9197               | Tire Builders   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$18.43                 |
| 51-9198               | Helpers--Production Workers   | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$17.72                 |
| 51-9199               | Production Workers, All Other   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$17.46                 |
| <b>53-0000</b>        | <b>Transportation and Material Moving Occupations</b>                     |  |  |  | <b>\$18.08</b>          |
| 53-1041               | Aircraft Cargo Handling Supervisors                                       | High school diploma or equivalent        | Less than 5 years  | None   | \$40.30                 |
| 53-1047               | FL Sup of Trans. & Material Moving Workers, ex. Aircraft Cargo Handling   | High school diploma or equivalent        | Less than 5 years  | None   | \$25.64                 |
| 53-2011               | Airline Pilots, Copilots, and Flight Engineers                            | Bachelor's degree                        | Less than 5 years  | Moderate-term on-the-job training                | \$211,310 **            |
| 53-2012               | Commercial Pilots   | Postsecondary non-degree award           | None   | Moderate-term on-the-job training                | \$100,720 **            |
| 53-2021               | Air Traffic Controllers   | Associate's degree                       | None   | Long-term on-the-job training                    | \$70.20                 |
| 53-2022               | Airfield Operations Specialists   | High school diploma or equivalent        | None   | Long-term on-the-job training                    | \$23.46                 |
| 53-2031               | Flight Attendants   | High school diploma or equivalent        | Less than 5 years  | Moderate-term on-the-job training                | \$59,370 **             |
| 53-3031               | Driver/Sales Workers  | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$11.80                 |
| 53-3032               | Heavy and Tractor-Trailer Truck Drivers                                   | Postsecondary non-degree award           | None   | Short-term on-the-job training                   | \$23.95                 |
| 53-3033               | Light Truck Drivers   | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$18.21                 |
| 53-3051               | Bus Drivers, School   | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$19.11                 |
| 53-3052               | Bus Drivers, Transit and Intercity  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$23.92                 |
| 53-3053               | Shuttle Drivers and Chauffeurs  | No formal educational credential         | None   | Short-term on-the-job training                   | \$13.43                 |
| 53-3054               | Taxi Drivers  | No formal educational credential         | None   | Short-term on-the-job training                   | \$12.62                 |
| 53-3099               | Motor Vehicle Operators, All Other  | No formal educational credential         | None   | Short-term on-the-job training                   | \$12.53                 |

## Ohio Occupational Employment\* Projections Report, 2022-2024

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|-----------------------|--|--|--|--|-------------------------|
| 53-4011               | Locomotive Engineers   | High school diploma or equivalent        | Less than 5 years  | Moderate-term on-the-job training                | \$34.68                 |
| 53-4022               | Railroad Brake, Signal, and Switch Operators and Locomotive Firers | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$28.73                 |
| 53-4031               | Railroad Conductors and Yardmasters                                | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$29.98                 |
| 53-5011               | Sailors and Marine Oilers  | No formal educational credential         | None   | Moderate-term on-the-job training                | \$19.04                 |
| 53-5021               | Captains, Mates, and Pilots of Water Vessels                       | Postsecondary non-degree award           | Less than 5 years  | None   | \$32.29                 |
| 53-6011               | Bridge and Lock Tenders  | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$24.42                 |
| 53-6021               | Parking Attendants   | No formal educational credential         | None   | Short-term on-the-job training                   | \$13.78                 |
| 53-6031               | Automotive and Watercraft Service Attendants                       | No formal educational credential         | None   | Short-term on-the-job training                   | \$14.46                 |
| 53-6032               | Aircraft Service Attendants  | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$14.59                 |
| 53-6041               | Traffic Technicians  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$28.59                 |
| 53-6051               | Transportation Inspectors  | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$32.44                 |
| 53-6061               | Passenger Attendants   | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$12.78                 |
| 53-7011               | Conveyor Operators and Tenders                                     | No formal educational credential         | None   | Short-term on-the-job training                   | \$16.74                 |
| 53-7021               | Crane and Tower Operators  | High school diploma or equivalent        | Less than 5 years  | Moderate-term on-the-job training                | \$31.48                 |
| 53-7051               | Industrial Truck and Tractor Operators                             | No formal educational credential         | None   | Short-term on-the-job training                   | \$19.52                 |
| 53-7061               | Cleaners of Vehicles and Equipment                                 | No formal educational credential         | None   | Short-term on-the-job training                   | \$14.56                 |
| 53-7062               | Laborers and Freight, Stock, and Material Movers, Hand             | No formal educational credential         | None   | Short-term on-the-job training                   | \$16.94                 |
| 53-7063               | Machine Feeders and Offbearers                                     | No formal educational credential         | None   | Short-term on-the-job training                   | \$21.53                 |
| 53-7064               | Packers and Packagers, Hand  | No formal educational credential         | None   | Short-term on-the-job training                   | \$16.32                 |
| 53-7065               | Stockers and Order Fillers   | High school diploma or equivalent        | None   | Short-term on-the-job training                   | \$16.60                 |
| 53-7071               | Gas Compressor and Gas Pumping Station Operators                   | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$40.26                 |
| 53-7072               | Pump Operators, except Wellhead Pumpers                            | High school diploma or equivalent        | None   | Moderate-term on-the-job training                | \$32.44                 |
| 53-7073               | Wellhead Pumpers   | High school diploma or equivalent        | Less than 5 years  | Moderate-term on-the-job training                | \$18.07                 |
| 53-7081               | Refuse and Recyclable Material Collectors                          | No formal educational credential         | None   | Short-term on-the-job training                   | \$21.04                 |
| 53-7121               | Tank Car, Truck, and Ship Loaders                                  | No formal educational credential         | None   | Short-term on-the-job training                   | \$23.15                 |
| 53-7199               | Material Moving Workers, All Other                                 | No formal educational credential         | None   | Short-term on-the-job training                   | \$18.18                 |

<sup>1</sup> Occupational codes based on SOC 2010 coding structure. Detailed information - <http://www.bls.gov/soc/>

\* Occupations with 100 or more workers.

\*\* Title Abbreviations

FL Sup = First-Line Supervisors

M/P = Metal and Plastic

S/O/T = Setters, Operators, and Tenders

# Wage is greater than or equal to \$115/hr or \$239,200/year.

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, May 2023.

\*\*\* Wage estimates are based on Ohio's OEWS surveys.

\*\*\*\* Education, experience and training levels associated with occupations were based on national data provided by the BLS.

▲ Wage data unavailable.

\* National hourly median wage.

\*\* Certain occupations report wages at the annual level - for elementary and secondary teachers this typically reflects the 9 1/2 month school year.

## **Bureau of Labor Market Information Business Principles for Workforce Development**

- Partner with the workforce and economic development community.
- Develop and deploy new information solution tools and systems for the workforce and economic development community.
- Provide products and services that are customer- and demand-driven.
- Be known as an important and reliable source for information solutions that support workforce development goals and outcomes.

Acknowledgments: The Workforce Research Section produced this report under the direction of Bureau Chief Byron Archer. For further information, visit [OhioLMI.com](http://OhioLMI.com) or call the Ohio Bureau of Labor Market Information at **(614) 752-9494**.

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