



# An Introduction to Ohio's In-Demand Jobs Report

A Project of the Governor's Office of Workforce Transformation

**John R. Kasich**, Governor

**Dawn Larzelere**, Director

# A Message from Our Director



Dear Fellow Ohioans:

**Thank you for your interest in Ohio's In-Demand jobs report.**

The Governor's Office of Workforce Transformation has put together this tool to help identify some of the strongest workforce opportunities for Ohioans based on their individual strengths, interests, education and objectives.

Defining and identifying Ohio's In-Demand jobs serves as a strong foundation for transforming Ohio's workforce development system. By understanding Ohio businesses' most urgent job needs, we can address workforce gaps, by:

- Aligning Ohio's education and training programs with the needs of business;
- Guiding job seekers and students to careers that are most likely to result in a job and provide a family sustaining wage; and
- Creating industry-led dialogue with local and state workforce partners to identify the gaps in the system and work cooperatively to address any shortfalls.

With the creation and implementation of this data, we are opening doors that will lead to new opportunities and better alignment of education and training, job creators and job seekers.

Whether you are searching for a job, looking for talent, helping to shape educational curriculum, trying to decide on your future career or advising someone who is in one of these roles, Ohio's In-Demand jobs data can help guide you through your decisions. The following instructional guide will walk you through how to access and utilize the data.

More information about Ohio's In-Demand jobs and other valuable resources can be found at [www.OhioMeansJobs.com](http://www.OhioMeansJobs.com).

Sincerely,

Dawn Larzelere  
*Director*



| Ref. No. | Occupation Title - 209  | Projections |                                   |                                   |                       | Methodology |      |          |          |             | OMJ    |           | Forecast |           |
|----------|---|-------------|-----------------------------------|-----------------------------------|-----------------------|-------------|------|----------|----------|-------------|--------|-----------|----------|-----------|
|          |   | Median Wage | Education Level <sup>1</sup>      | On-the-Job Training <sup>2</sup>  | Total Annual Openings | Growth      | Base | JobsOhio | 2nd Tier | Review Comm | Jobs   | Employers | Jobs     | Employers |
| 1        | Accountants and Auditors  | \$60,420    | Bachelor's degree                 | -                                 | 1,546                 | 354         | x    | -        | -        | -           | 25,787 | 659       | 188      | 21        |
| 2        | Actuaries   | \$86,630    | Bachelor's degree                 | Long-term on-the-job training     | 55                    | 26          | -    | x        | -        | -           | 249    | 21        | 57       | 3         |
| 3        | Administrative Services Managers  | \$74,060    | High school diploma or equivalent | -                                 | 245                   | 90          | x    | -        | -        | -           | 429    | 116       | -        | -         |
| 4        | Aerospace Engineering and Operations Technicians                            | \$60,950    | Associate's degree                | -                                 | 5                     | 0           | -    | x        | -        | -           | 11     | 4         | 13       | 1         |
| 5        | Aerospace Engineers   | \$98,740    | Bachelor's degree                 | -                                 | 93                    | 0           | -    | x        | -        | -           | 2,087  | 81        | 76       | 4         |
| 6        | Aircraft Mechanics and Service Technicians                                  | \$59,510    | Certificate/Some College          | -                                 | 82                    | 17          | -    | x        | -        | -           | 145    | 31        | 182      | 3         |
| 7        | Architectural and Civil Drafters  | \$46,380    | Associate's degree                | -                                 | 39                    | 0           | -    | x        | -        | -           | 213    | 36        | 4        | 1         |
| 8        | Architectural and Engineering Managers                                      | \$112,470   | Bachelor's degree                 | -                                 | 220                   | 40          | -    | -        | x        | -           | 2,700  | 316       | 154      | 3         |
| 9        | Art, Drama, and Music Teachers, Postsecondary                               | \$59,230    | Doctoral or professional degree   | -                                 | 158                   | 84          | x    | -        | -        | -           | 39     | 1         | -        | -         |
| 10       | Assemblers and Fabricators, All Other                                       | \$24,180    | High school diploma or equivalent | Moderate-term on-the-job training | 524                   | 183         | -    | -        | x        | -           | 202    | 60        | 185      | 5         |
| 11       | Automotive Service Technicians and Mechanics                                | \$33,730    | High school diploma or equivalent | Long-term on-the-job training     | 805                   | 158         | x    | -        | -        | -           | 2,773  | 96        | 3        | 1         |
| 12       | Avionics Technicians  | \$55,600    | Certificate/Some college          | -                                 | 8                     | 0           | -    | -        | x        | -           | 45     | 15        | 47       | 2         |
| 13       | Bill and Account Collectors   | \$29,860    | High school diploma or equivalent | Moderate-term on-the-job training | 735                   | 262         | x    | -        | -        | -           | 5,569  | 208       | 186      | 3         |
| 14       | Billing and Posting Clerks  | \$32,890    | High school diploma or equivalent | Short-term on-the-job training    | 809                   | 357         | x    | -        | -        | -           | 1,072  | 109       | -        | -         |
| 15       | Biomedical Engineers  | \$82,580    | Bachelor's degree                 | -                                 | 20                    | 6           | -    | x        | -        | -           | 276    | 29        | 20       | 2         |
| 16       | Bookkeeping, Accounting, and Auditing Clerks                                | \$35,130    | High school diploma or equivalent | Moderate-term on-the-job training | 1,100                 | 500         | x    | -        | -        | -           | 4,590  | 420       | 16       | 1         |
| 17       | Brickmasons and Blockmasons   | \$49,680    | High school diploma or equivalent | Apprenticeship                    | 115                   | 76          | x    | -        | -        | -           | 3      | 2         | -        | -         |
| 18       | Bus and Truck Mechanics and Diesel Engine Specialists                       | \$43,440    | High school diploma or equivalent | Long-term on-the-job training     | 284                   | 58          | x    | -        | -        | -           | 1,266  | 97        | 113      | 3         |
| 19       | Bus Drivers, School or Special Client                                       | \$26,950    | High school diploma or equivalent | Moderate-term on-the-job training | 329                   | 102         | x    | -        | -        | -           | 195    | 13        | -        | -         |
| 20       | Business Operations Specialists, All Other                                  | \$60,990    | High school diploma or equivalent | Long-term on-the-job training     | 390                   | 66          | -    | -        | x        | -           | 5,080  | 314       | 75       | 1         |
| 21       | Carpenters  | \$42,420    | High school diploma or equivalent | Apprenticeship                    | 869                   | 527         | x    | -        | -        | -           | 139    | 34        | 30       | 1         |
| 22       | Chemical Engineers  | \$83,430    | Bachelor's degree                 | -                                 | 39                    | 5           | -    | x        | -        | -           | 706    | 107       | 112      | 14        |
| 23       | Chemical Equipment Operators and Tenders                                    | \$50,080    | High school diploma or equivalent | Moderate-term on-the-job training | 86                    | 0           | -    | x        | -        | -           | 1      | 1         | 25       | 2         |
| 24       | Chemical Plant and System Operators   | \$43,050    | High school diploma or equivalent | Long-term on-the-job training     | 78                    | 2           | -    | x        | -        | -           | 134    | 25        | 17       | 1         |
| 25       | Chemists  | \$64,150    | Bachelor's degree                 | -                                 | 93                    | 7           | -    | x        | -        | -           | 977    | 91        | 61       | 6         |
| 26       | Child, Family, and School Social Workers                                    | \$39,640    | Bachelor's degree                 | -                                 | 308                   | 123         | x    | -        | -        | -           | 287    | 27        | -        | -         |
| 27       | Civil Engineering Technicians   | \$50,620    | Associate's degree                | -                                 | 42                    | 0           | -    | x        | -        | -           | 128    | 37        | 13       | 1         |
| 28       | Civil Engineers   | \$72,920    | Bachelor's degree                 | -                                 | 291                   | 117         | -    | -        | x        | -           | 946    | 128       | 34       | 1         |
| 29       | Claims Adjusters, Examiners, and Investigators                              | \$58,270    | High school diploma or equivalent | Long-term on-the-job training     | 306                   | 40          | -    | -        | x        | -           | 2,339  | 89        | 190      | 4         |
| 30       | Coaches and Scouts  | \$26,000    | High school diploma or equivalent | Long-term on-the-job training     | 429                   | 138         | x    | -        | -        | -           | 67     | 7         | -        | -         |
| 31       | Commercial and Industrial Designers   | \$63,640    | Bachelor's degree                 | -                                 | 65                    | 7           | -    | x        | -        | -           | 513    | 51        | 15       | 1         |
| 32       | Compliance Officers   | \$57,670    | Bachelor's degree                 | Moderate-term on-the-job training | 157                   | 30          | -    | x        | -        | -           | 1,028  | 161       | 49       | 2         |
| 33       | Computer and Information Systems Managers                                   | \$111,630   | Bachelor's degree                 | -                                 | 319                   | 161         | x    | -        | -        | -           | 11,607 | 326       | 114      | 8         |
| 34       | Computer Network Architects*  | \$95,640    | Bachelor's degree                 | -                                 | 117                   | 49          | -    | -        | x        | -           | 1,563  | 166       | 9        | 1         |
| 35       | Computer Network Support Specialists  | \$48,740    | Bachelor's degree                 | -                                 | 132                   | 22          | -    | x        | -        | -           | 193    | 55        | 127      | 3         |
| 36       | Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic | \$43,030    | High school diploma or equivalent | Moderate-term on-the-job training | 79                    | 35          | -    | x        | -        | -           | 139    | 45        | 58       | 6         |
| 37       | Computer Occupations, All Other   | \$80,020    | Bachelor's degree                 | -                                 | 135                   | 7           | -    | -        | x        | -           | 36,033 | 486       | 1,272    | 41        |
| 38       | Computer Programmers  | \$66,020    | Bachelor's degree                 | -                                 | 252                   | 9           | x    | -        | -        | -           | 7,084  | 356       | 333      | 8         |

### What are Ohio's In-Demand Jobs?

An In-Demand job in Ohio means that job has a sustainable wage and a promising future based on the projected number of openings and growth. The following criteria were used to define an "In-Demand job" in Ohio:

- Median wage of more than \$12.98 per hour;
- Annual growth in the number of jobs greater than the statewide average of 70; and,
- Annual job openings greater than the statewide average of 250.

In addition to these state labor statistics and projections, electronic job posting trend data and business responses to an online jobs forecast tool were critical components in defining In-Demand jobs.

As of June 2015, 209 occupations representing approximately 17,000 related job titles have been designated as Ohio's In-Demand jobs.

### Understanding In-Demand Jobs Reports

Ohio's In-Demand Jobs Report is a customizable, online tool to help guide Ohioans on a career pathway, based on an individual's specific needs and goals and the employment opportunities available in our state.

Each report contains data pertaining to each occupation, as well as how that job was designated as "In-Demand."

This booklet breaks down how to read and understand all the facts and figures contained in Ohio's In-Demand Jobs Reports.

With an understanding of how to interpret these reports, In-Demand Jobs can help job seekers, educators, businesses, and state and local community leaders make informed decisions about the actions they are taking or need to take to solidify their success in the short and long term.

| Ref. No. | Occupation Title - 209                           |
|----------|--|
| 1        | Accountants and Auditors                         |
| 2        | Actuaries  |
| 3        | Administrative Services Managers                 |
| 4        | Aerospace Engineering and Operations Technicians |
| 5        | Aerospace Engineers                              |
| 6        | Aircraft Mechanics and Service Technicians       |
| 7        | Architectural and Civil Drafters                 |

**Ref. No.:**

A reference number assigned to an occupation, organized in alphabetical order

**Occupation Title:**

Designated title and number of In-Demand occupations



**Reference Number & Occupation Title**

“Ref. No.” or Reference Number refers to the number assigned to a specific occupation, organized in alphabetical order. “Occupation Title” is the U.S. Department of Labor designated job title for the occupation listed.

It is important to note that the reference number is not an indication of rank—in other words, the report is not organized by Ohio’s most In-Demand jobs, ordered from top to bottom. The issue of which occupation is Ohio’s most In-Demand job is actually a very subjective question, and Ohio’s In-Demand Jobs Report can be used to guide each person toward an individualized answer, based on an individual’s strengths, interests and objectives.

Just as education and career choices are based on personal priorities and goals, Ohio’s In-Demand Jobs Reports include many variables and provide a customized guide to help Ohio’s job seekers make decisions about their individual career pathway.

**Median Wage, Education Level & On-the-Job Training**

“Median Wage,” “Education Level,” and “On-the-Job Training” reflect the U.S. Bureau of Labor Statistics classifications for the median wage of the occupation, the typical education level needed to enter the occupation, and the typical on-the-job training required to be competent in the occupation.

**Openings & Growth**

“Total Annual Openings” and “Growth” represent statewide labor market information projected statistics for the identified occupation. Openings refer to the anticipated number of positions that become available each year, and growth is the projected increase in the total positions for the occupation from one year to the next.

## Projections

| Median Wage | Education Level <sup>1</sup>      | On-the-Job Training <sup>2</sup> |
|-------------|-----------------------------------|----------------------------------|
| \$60,420    | Bachelor's degree                 | -                                |
| \$86,630    | Bachelor's degree                 | Long-term on-the-job training    |
| \$74,060    | High school diploma or equivalent | -                                |
| \$60,950    | Associate's degree                | -                                |
| \$98,740    | Bachelor's degree                 | -                                |
| \$59,510    | Certificate/Some College          | -                                |
| \$46,380    | Associate's degree                | -                                |

### Median Wage:

The middle salary received in the occupation

### Education Level:

Typical education needed to enter the occupation

### On-the-Job Training:

Typical training required for competency in the occupation

| Occupation Title - 209                           | Total Annual Openings | Growth |
|--|-----------------------|--------|
| Accountants and Auditors                         | 1,546                 | 354    |
| Actuaries  | 55                    | 26     |
| Administrative Services Managers                 | 245                   | 90     |
| Aerospace Engineering and Operations Technicians | 5                     | 0      |
| Aerospace Engineers                              | 93                    | 0      |
| Aircraft Mechanics and Service Technicians       | 82                    | 17     |
| Architectural and Civil Drafters                 | 39                    | 0      |

### Total Annual Openings:

The number of anticipated positions that become available each year

### Growth:

The anticipated increase in the total positions over the last year

| Occupation Title - 209                           | Methodology |          |          |             |
|--|-------------|----------|----------|-------------|
|  | Base        | JobsOhio | 2nd Tier | Review Comm |
| Accountants and Auditors                         | x           | -        | -        | -           |
| Actuaries  | -           | x        | -        | -           |
| Administrative Services Managers                 | x           | -        | -        | -           |
| Aerospace Engineering and Operations Technicians | -           | x        | -        | -           |
| Aerospace Engineers                              | -           | x        | -        | -           |
| Aircraft Mechanics and Service Technicians       | -           | x        | -        | -           |

**Baseline:**

The occupation met statistical thresholds for wage, openings and growth

**JobsOhio:**

The occupation supports one of JobsOhio's nine industry clusters

**2nd Tier:**

The occupation met a lower statistical threshold for wage, openings or growth, but was forecasted as a credentialed or certificate-based need

**Review Comm:**

The occupation was added based upon review by the In-Demand Review Committee



Ohio's In-Demand methodology takes into consideration data from several sources to best reflect the state's most urgent workforce needs.

"Base" or baseline means that an occupation met predetermined statistical thresholds for wage, openings and growth as defined on the previous page.

"JobsOhio" refers to an occupation that meets certain statistic thresholds, and supports one of JobsOhio's nine recognized industry clusters.

"2nd Tier" indicates that, though the occupation met a lower statistical threshold for wage, openings or growth, an Ohio employer forecasted the occupation as an In-Demand job.

"Review Comm" represents occupations added to the list by the In-Demand Review Committee, made up of employers, JobsOhio, and state and local workforce officials, which reviews all information for potential additions to the In-Demand Jobs Report.

| Occupation Title - 209                           | OMJ    |           | Forecast |           |
|--|--------|-----------|----------|-----------|
|  | Jobs   | Employers | Jobs     | Employers |
| Accountants and Auditors                         | 25,787 | 659       | 188      | 21        |
| Actuaries  | 249    | 21        | 57       | 3         |
| Administrative Services Managers                 | 429    | 116       | -        | -         |
| Aerospace Engineering and Operations Technicians | 11     | 4         | 13       | 1         |
| Aerospace Engineers                              | 2,087  | 81        | 76       | 4         |
| Aircraft Mechanics and Service Technicians       | 145    | 31        | 182      | 3         |

**Jobs:**

The recent four-year number of job postings to OhioMeansJobs.com related to the occupation

**Employers:**

The recent four-year number of employers who posted a need for the occupation to OhioMeansJobs.com

**Example:** 249 job openings have been posted to OhioMeansJobs.com, from 21 different employers, looking for Actuaries

**Jobs:**

The number of jobs forecasted by Ohio employers, identifying the occupation as an urgent workforce need

**Employers:**

The number of Ohio employers who identified the occupation as an urgent workforce need

**Example:** For Actuaries, 57 jobs were forecasted from 3 Ohio employers who participated in the forecast survey

**OhioMeansJobs.com Jobs & Employers**

OhioMeansJobs is the state's online job matching and career exploration and planning tool, offering support and assistance to job seekers as well as Ohio employers looking for talent. The data here reflects the job posting trends for each specific occupation.



**Employer Forecasted Jobs & Employers**

The Forecast numbers reflect both the number of jobs forecasted, and the number of employers who indicated the occupation was an In-Demand job in the coming months and years.





## In-Demand Jobs Reports

The purpose of Ohio's In-Demand Jobs effort is to provide individuals, training institutions, businesses, workforce professionals, and policymakers with a reliable, consistent method for identifying In-Demand jobs and related career opportunities in Ohio.

Find In-Demand Jobs Reports and so much more at [OhioMeansJobs.com](http://OhioMeansJobs.com)

*Revised June 2015*

