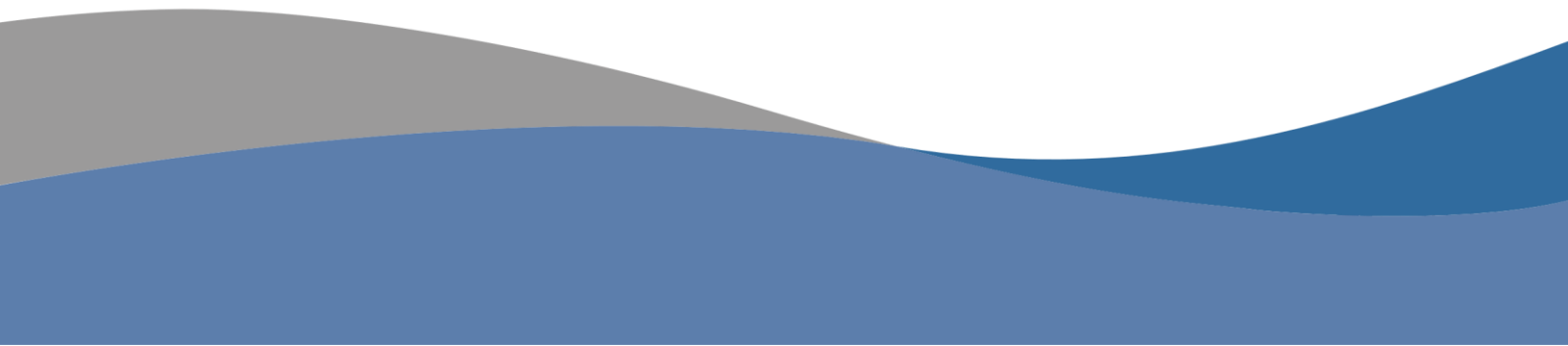




Education Report

Public Administration

California



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Definition of Public Administration, CIP 44.0401

A program that prepares individuals to serve as managers in the executive arm of local, state, and federal government and that focuses on the systematic study of executive organization and management. Includes instruction in the roles, development, and principles of public administration; the management of public policy; executive-legislative relations; public budgetary processes and financial management; administrative law; public personnel management; professional ethics; and research methods.

Awards

The table below is a list of postsecondary awards in CIP 44.0401 that were granted by institutions located in California in the 2021 academic year.

| Schools | Certs & 2yr Awards ¹ | 4yr Awards ² | Post-Grad Awards ³ | Avg Net Price ⁴ |
|---|---------------------------------|-------------------------|-------------------------------|----------------------------|
| California State University-Northridge | | 67 | 242 | \$8,708 |
| San Diego State University | | 106 | 66 | \$6,867 |
| University of Southern California | | | 164 | \$26,021 |
| California State University-Long Beach | | 25 | 106 | \$9,171 |
| California State University-Dominguez Hills | | 47 | 82 | \$4,500 |
| National University | | 14 | 94 | \$9,966 |
| California State University-San Bernardino | | | 81 | \$3,254 |
| University of San Francisco | | 2 | 78 | \$39,825 |
| California State University-East Bay | | | 66 | \$12,631 |
| California State University-Fullerton | | 33 | 33 | \$4,939 |
| University of La Verne | | 27 | 27 | \$22,538 |
| California Baptist University | | 16 | 37 | \$23,494 |
| California State University-Bakersfield | | 11 | 42 | \$7,368 |
| Ashford University | | 10 | 39 | \$23,585 |
| California State University-Los Angeles | | | 39 | \$2,695 |
| San Francisco State University | | | 32 | \$13,641 |
| University of the Pacific | | | 31 | \$21,311 |
| Golden Gate University | | 1 | 29 | |
| University of Massachusetts Global | | 1 | 28 | \$26,346 |
| California State University-Sacramento | | | 26 | \$7,778 |
| California State University-Chico | | 14 | 7 | \$13,749 |
| California State University-Fresno | | | 21 | \$6,336 |
| California State University-Stanislaus | | | 20 | \$7,230 |
| Notre Dame de Namur University | | | 18 | \$28,243 |
| Middlebury Institute of International Studies at Monterey | | | 17 | |
| San Jose State University | | | 16 | \$14,603 |
| Touro University Worldwide | | | 16 | \$18,121 |
| Southwestern College | 15 | | | \$6,789 |
| University of California-Riverside | | 11 | | \$13,502 |

| Schools | Certs & 2yr Awards ¹ | 4yr Awards ² | Post-Grad Awards ³ | Avg Net Price ⁴ |
|---|---------------------------------|-------------------------|-------------------------------|----------------------------|
| California State Polytechnic University-Pomona | | | 10 | \$12,942 |
| Northcentral University | | | 10 | |
| Sonoma State University | | | 6 | \$7,055 |
| California Polytechnic State University-San Luis Obispo | | | | \$20,708 |
| California State University-Monterey Bay | | | | \$6,085 |
| Palomar College | | | | \$6,659 |
| Total | 15 | 385 | 1,483 | |

1. Undergraduate certificates and associate's degrees

2. Bachelor's degrees and post-baccalaureates

3. Master's, post-master's, and doctorates

4. Average net price represents full-time beginning undergraduate students who paid the in-state or in-district tuition rate and were awarded grant or scholarship aid from federal, state or local governments, or the institution. Data as of the 2020-2021 academic year.

Awards data are per the National Center for Education Statistics (NCES) and JobsEQ for the 2021 academic year. Any programs shown here reflect only data reported to the NCES; reporting is required of all schools participating in any federal finance assistance program authorized by Title IV of the Higher Education Act of 1965, as amended—other training providers in the region that do not report data to the NCES are not reflected in the above.

Occupation Crosswalk

The below table lists all occupations linked with the program, Public Administration, CIP 44.0401.

| | | Education and Training Requirements | | | Educational Attainment | | | | |
|---------|--|-------------------------------------|---|---|------------------------|-------------------------|--------------------|-------------------|---------------------|
| | | Typical Education Needed for Entry | Work Experience in a Related Occupation | Typical On-the-Job Training Needed to Attain Competency in the Occupation | No College | Some College, No Degree | Associate's Degree | Bachelor's Degree | Postgraduate Degree |
| 11-1011 | Chief Executives | Bachelor's degree | 5 years or more | None | 6% | 9% | 4% | 45% | 36% |
| 11-1021 | General and Operations Managers | Bachelor's degree | 5 years or more | None | 14% | 17% | 9% | 43% | 18% |
| 11-1031 | Legislators | Bachelor's degree | Less than 5 years | None | 6% | 9% | 4% | 45% | 35% |
| 11-3071 | Transportation, Storage, and Distribution Managers | High school diploma or equivalent | 5 years or more | None | 29% | 20% | 10% | 31% | 11% |
| 11-9131 | Postmasters and Mail Superintendents | High school diploma or equivalent | Less than 5 years | Moderate-term on-the-job training | 13% | 12% | 7% | 42% | 27% |
| 11-9151 | Social and Community Service Managers | Bachelor's degree | Less than 5 years | None | 5% | 8% | 5% | 43% | 39% |
| 11-9199 | Managers, All Other | Bachelor's degree | Less than 5 years | None | 12% | 12% | 6% | 42% | 28% |

Education and training requirements are from the Bureau of Labor Statistics (BLS); educational attainment mix are regional data modeled by Chmura using Census educational attainment data projected to 2022Q4 along with source data from the BLS

Definition of Chief Executives (11-1011)

Determine and formulate policies and provide overall direction of companies or private and public sector organizations within guidelines set up by a board of directors or similar governing body. Plan, direct, or coordinate operational activities at the highest level of management with the help of subordinate executives and staff managers.

Definition of General and Operations Managers (11-1021)

Plan, direct, or coordinate the operations of public or private sector organizations, overseeing multiple departments or locations. Duties and responsibilities include formulating policies, managing daily operations, and planning the use of materials and human resources, but are too diverse and general in nature to be classified in any one functional area of management or administration, such as personnel, purchasing, or administrative services. Usually manage through subordinate supervisors. Excludes First-Line Supervisors.

Definition of Legislators (11-1031)

Develop, introduce, or enact laws and statutes at the local, tribal, state, or federal level. Includes only workers in elected positions.

Definition of Transportation, Storage, and Distribution Managers (11-3071)

Plan, direct, or coordinate transportation, storage, or distribution activities in accordance with organizational policies and applicable government laws or regulations. Includes logistics managers.

Definition of Postmasters and Mail Superintendents (11-9131)

Plan, direct, or coordinate operational, administrative, management, and support services of a U.S. post office; or coordinate activities of workers engaged in postal and related work in assigned post office.

Definition of Social and Community Service Managers (11-9151)

Plan, direct, or coordinate the activities of a social service program or community outreach organization. Oversee the program or organization's budget and policies regarding participant involvement, program requirements, and benefits. Work may involve directing social workers, counselors, or probation officers.

Definition of Managers, All Other (11-9199)

All managers not listed separately.

Occupation Details

As of 2022Q4, total employment for occupations linked to Public Administration in California was 515,385. Over the past three years, linked occupations added 52,377 jobs in the region and are expected to need in aggregate approximately 337,549 newly trained workers over the next seven years.

Snapshot of Occupations Linked to Public Administration in California¹

| SOC | Occupation | Current | | | | | | 3-Year History | 7-Year Forecast | | | | |
|-----------------------------------|--|-------------------|-----------------------------|-------------|----------------|-------------|-----------------------------|----------------|-------------------|------------------|------------------|----------------|------------------|
| | | Empl | Mean Ann Wages ² | LQ | Unempl | Unempl Rate | Online Job Ads ³ | Ann % | Total Demand | Exits | Transfers | Empl Growth | Avg Ann Growth % |
| 11-1021 | General and Operations Managers | 326,916 | \$137,400 | 0.84 | 6,046 | 1.9% | 2,645 | 3.2% | 224,873 | 54,541 | 151,768 | 18,564 | 0.8% |
| 11-9199 | Managers, All Other | 98,004 | \$164,300 | 1.35 | 1,405 | 1.5% | 1,400 | 10.6% | 59,926 | 21,848 | 33,829 | 4,248 | 0.6% |
| 11-1011 | Chief Executives | 38,001 | \$242,800 | 1.16 | 333 | 0.9% | 1,826 | -5.1% | 16,803 | 8,001 | 10,582 | -1,780 | -0.7% |
| 11-9151 | Social and Community Service Managers | 25,088 | \$88,900 | 1.20 | 384 | 1.5% | 803 | 1.9% | 18,453 | 6,153 | 9,881 | 2,418 | 1.3% |
| 11-3071 | Transportation, Storage, and Distribution Managers | 24,063 | \$115,000 | 1.27 | 298 | 1.3% | 1,036 | 3.4% | 15,628 | 4,183 | 10,108 | 1,337 | 0.8% |
| 11-1031 | Legislators | 2,614 | \$77,900 | 0.58 | 2 | 0.1% | n/a | -0.2% | 1,517 | 574 | 889 | 53 | 0.3% |
| 11-9131 | Postmasters and Mail Superintendents | 698 | \$93,400 | 0.46 | 0 | n/a | 2 | -0.7% | 350 | 148 | 229 | -27 | -0.6% |
| Total - Linked Occupations | | 515,385 | \$146,500 | 0.96 | 8,467 | 1.7% | 7,712 | 3.6% | 337,549 | 95,448 | 217,286 | 24,814 | 0.7% |
| Total - All Occupations | | 19,219,968 | \$71,900 | 1.00 | 797,161 | 4.1% | 549,185 | 0.6% | 17,029,863 | 6,722,656 | 9,379,252 | 927,955 | 0.7% |

Source: [JobsEQ®](#)

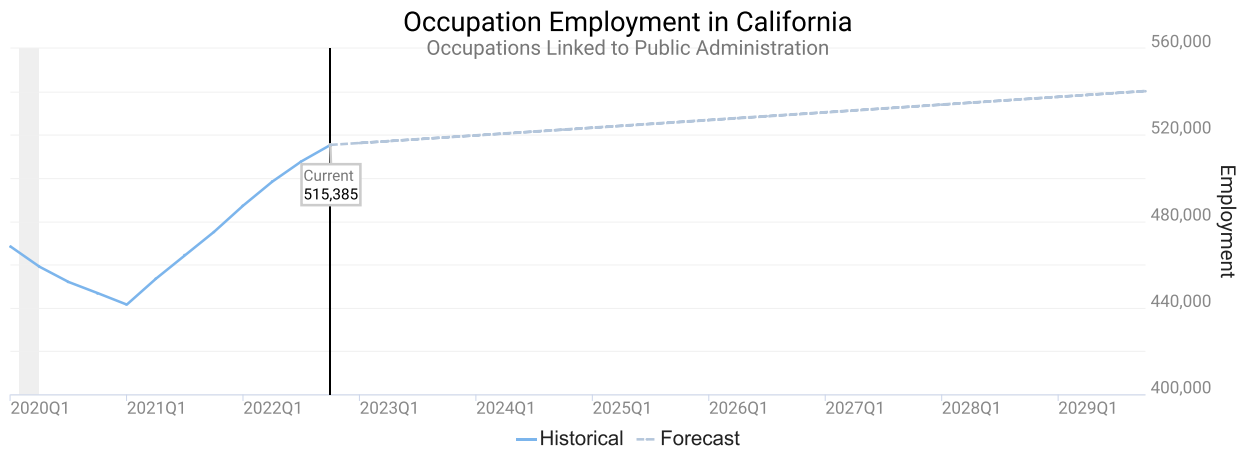
Data as of 2022Q4 unless noted otherwise

Note: Figures may not sum due to rounding.

1. Data based on a four-quarter moving average unless noted otherwise.

2. Wage data represent the average for all Covered Employment

3. Data represent found online ads active within the last thirty days in the selected region. Due to alternative county-assignment algorithms, ad counts in this analytic may not match that shown in RTI (nor in the popup window ad list). Ad counts for ZCTA-based regions are estimates.



Source: JobsEQ®, Data as of 2022Q4. The shaded areas of the graph represent national recessions.

Occupation employment data are estimated via industry employment data and the industry/occupation mix. Industry employment data are derived from the Quarterly Census of Employment and Wages, provided by the Bureau of Labor Statistics and currently updated through 2022Q3, imputed where necessary with preliminary estimates updated to 2022Q4. Forecast employment growth uses national projections from the Bureau of Labor Statistics adapted for regional growth patterns. Occupation unemployment figures are imputed by Chmura.

Employment by Industry

The table illustrates the industries in California which most employ occupations linked to Public Administration. The single industry most employing these occupations in the region is Management, Scientific, and Technical Consulting Services, NAICS 5416. This industry employs 19,591 workers in the linked occupations—employment which is expected to increase by 2,415 jobs over the next ten years; furthermore, 17,367 additional new workers in these linked occupations will be needed for this industry due to separation demand, that is, to replace workers in this occupation and industry that retire or move into a different occupation.

Industry Distribution for Occupations Linked to Public Administration in California

| NAICS Code | Industry Title | Current | | | 10-Year Demand | | |
|------------|--|---------------|---------|--------|----------------|-------------|--------------|
| | | % of Occ Empl | Empl | Exits | Transfers | Empl Growth | Total Demand |
| 5416 | Management, Scientific, and Technical Consulting Services | 3.8% | 19,591 | 5,292 | 12,075 | 2,415 | 19,782 |
| 5511 | Management of Companies and Enterprises | 3.3% | 16,776 | 4,498 | 9,395 | 184 | 14,077 |
| 6241 | Individual and Family Services | 3.2% | 16,655 | 5,552 | 10,222 | 4,014 | 19,788 |
| 5415 | Computer Systems Design and Related Services | 3.1% | 15,773 | 4,353 | 9,632 | 2,289 | 16,274 |
| 7225 | Restaurants and Other Eating Places | 2.9% | 14,941 | 3,797 | 10,284 | 2,894 | 16,975 |
| 5417 | Scientific Research and Development Services | 2.1% | 10,970 | 3,084 | 6,328 | 983 | 10,395 |
| 9221 | Justice, Public Order, and Safety Activities | 1.8% | 9,035 | 2,585 | 4,736 | -55 | 7,266 |
| 5613 | Employment Services | 1.7% | 8,641 | 2,312 | 5,168 | 633 | 8,113 |
| 5121 | Motion Picture and Video Industries | 1.6% | 8,478 | 2,354 | 5,380 | 1,681 | 9,415 |
| 2361 | Residential Building Construction | 1.6% | 8,434 | 2,260 | 4,840 | 219 | 7,319 |
| 2382 | Building Equipment Contractors | 1.6% | 8,389 | 2,025 | 5,142 | 21 | 7,189 |
| 9211 | Executive, Legislative, and Other General Government Support | 1.5% | 7,839 | 2,256 | 4,141 | 58 | 6,455 |
| 5611 | Office Administrative Services | 1.5% | 7,745 | 2,178 | 4,687 | 1,137 | 8,002 |
| 5617 | Services to Buildings and Dwellings | 1.4% | 7,444 | 1,785 | 4,699 | 199 | 6,683 |
| 5413 | Architectural, Engineering, and Related Services | 1.4% | 7,213 | 1,813 | 4,226 | -44 | 5,996 |
| 8111 | Automotive Repair and Maintenance | 1.1% | 5,699 | 1,372 | 3,685 | 339 | 5,395 |
| 7139 | Other Amusement and Recreation Industries | 1.1% | 5,606 | 1,427 | 3,600 | 584 | 5,611 |
| 9231 | Administration of Human Resource Programs | 1.0% | 5,314 | 1,524 | 2,798 | 1 | 4,323 |
| 4931 | Warehousing and Storage | 1.0% | 5,276 | 1,402 | 3,443 | 1,176 | 6,021 |
| 5242 | Agencies, Brokerages, and Other Insurance Related Activities | 1.0% | 5,170 | 1,373 | 3,119 | 415 | 4,906 |
| | All Others | 62.2% | 320,396 | 83,105 | 192,791 | 16,800 | 292,696 |

Source: JobsEQ®

Data as of 2022Q4 except wages which are as of 2021. Note that occupation-by-industry wages represent adjusted national data and may not be consistent with regional, all-industry occupation wages shown elsewhere in JobsEQ.

Note: Figures may not sum due to rounding.

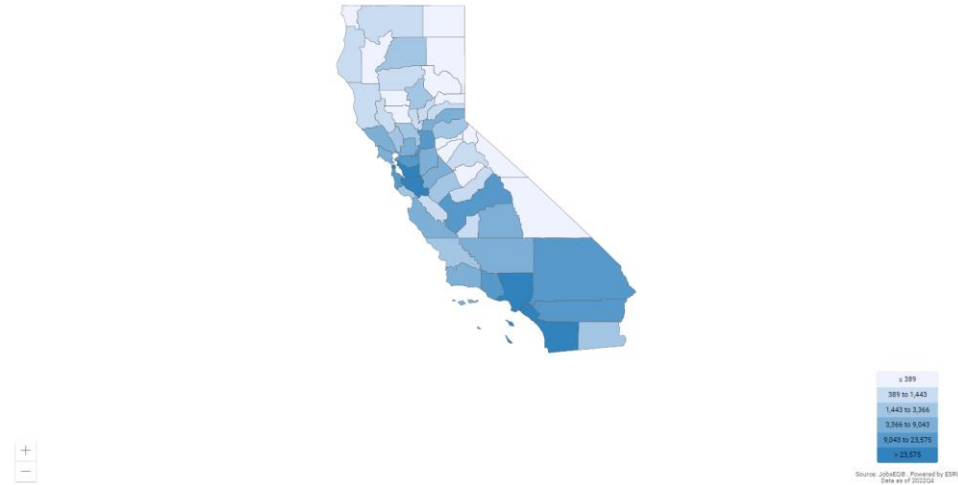
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Geographic Distribution

The map below illustrates the county-level distribution of employed workers in California in occupations linked to Public Administration. Employment is shown by place of work.

California, Occupation Concentration by Place of Work for Occupations Linked to Public Administration

export



Top Counties with Employment Linked to Public Administration, 2022Q4

| Region | Employment |
|-----------------------------------|------------|
| Los Angeles County, California | 132,045 |
| Orange County, California | 48,111 |
| San Diego County, California | 44,372 |
| Santa Clara County, California | 34,603 |
| San Francisco County, California | 25,816 |
| Alameda County, California | 23,576 |
| San Bernardino County, California | 21,286 |
| Riverside County, California | 19,965 |
| Sacramento County, California | 19,851 |
| San Mateo County, California | 14,141 |

Source: JobsEQ®

Occupation employment data are estimated via industry employment data and the industry/occupation mix. Industry employment data are derived from the Quarterly Census of Employment and Wages, provided by the Bureau of Labor Statistics and currently updated through 2022Q3, imputed where necessary with preliminary estimates updated to 2022Q4.

Demographic Profile

The population in California was 39,346,023 per American Community Survey data for 2016-2020.

Of individuals 25 to 64 in California, 35.4% have a bachelor's degree or higher which compares with 34.3% in the nation. Per American Community Survey 2016-2020 estimates, the region has about 576,714 students enrolled in grade 12.

Summary¹

| | Percent | | Value | |
|---|------------|-------|------------|-------------|
| | California | USA | California | USA |
| Demographics | | | | |
| Population (ACS) | — | — | 39,346,023 | 326,569,308 |
| Male | 49.7% | 49.2% | 19,562,882 | 160,818,530 |
| Female | 50.3% | 50.8% | 19,783,141 | 165,750,778 |
| Median Age ² | — | — | 36.7 | 38.2 |
| Under 18 Years | 22.8% | 22.4% | 8,956,641 | 73,296,738 |
| 18 to 24 Years | 9.5% | 9.3% | 3,724,239 | 30,435,736 |
| 25 to 34 Years | 15.3% | 13.9% | 6,007,913 | 45,485,165 |
| 35 to 44 Years | 13.3% | 12.7% | 5,233,903 | 41,346,677 |
| 45 to 54 Years | 12.8% | 12.7% | 5,039,155 | 41,540,736 |
| 55 to 64 Years | 12.0% | 12.9% | 4,739,675 | 42,101,439 |
| 65 to 74 Years | 8.3% | 9.4% | 3,270,380 | 30,547,950 |
| Population Growth | | | | |
| Population (Pop Estimates) ⁴ | — | — | 39,029,342 | 333,287,557 |
| Population Annual Average Growth ⁴ | 0.3% | 0.6% | 108,479 | 1,940,990 |
| People per Square Mile | — | — | 250.4 | 94.3 |
| Educational Attainment, Age 25-64 | | | | |
| No High School Diploma | 15.2% | 10.5% | 3,199,850 | 17,929,220 |
| High School Graduate | 20.4% | 25.4% | 4,282,776 | 43,289,555 |
| Some College, No Degree | 21.0% | 20.5% | 4,412,172 | 34,959,338 |
| Associate's Degree | 8.0% | 9.3% | 1,678,082 | 15,776,790 |
| Bachelor's Degree | 22.6% | 21.6% | 4,741,354 | 36,888,244 |
| Postgraduate Degree | 12.9% | 12.7% | 2,706,412 | 21,630,870 |
| Social | | | | |
| Poverty Level (of all people) | 12.6% | 12.8% | 4,853,434 | 40,910,326 |
| Households Receiving Food Stamps/SNAP | 9.0% | 11.4% | 1,183,873 | 13,892,407 |
| Enrolled in Grade 12 (% of total population) | 1.5% | 1.3% | 576,714 | 4,358,865 |
| Disconnected Youth ³ | 1.9% | 2.5% | 38,451 | 433,164 |
| Children in Single Parent Families (% of all children) | 32.8% | 34.0% | 2,796,858 | 23,628,508 |
| Uninsured | 7.2% | 8.7% | 2,806,173 | 28,058,903 |
| Speak English Less Than Very Well (population 5 yrs and over) | 17.4% | 8.2% | 6,432,102 | 25,312,024 |

Source: [JobsEQ®](https://www.chmuraecon.com/jobseq)

1. American Community Survey 2016-2020, unless noted otherwise

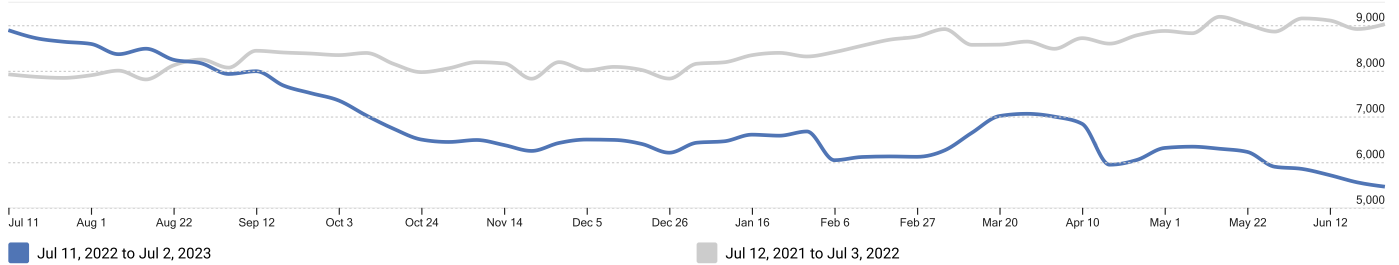
2. Median values for certain aggregate regions (such as MSAs) may be estimated as the weighted averages of the median values from the composing counties.

3. Disconnected Youth are 16-19 year olds who are (1) not in school, (2) not high school graduates, and (3) either unemployed or not in the labor force.

4. Census Population Estimate for 2022, annual average growth rate since 2012. Post-2019 data for Connecticut counties are imputed by Chmura.

RTI (Job Postings)

Active Job Ads by Date



Occupations

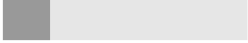
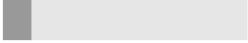
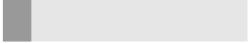
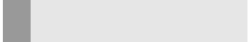
| SOC | Occupation | Active Job Ads |
|-------------|--|----------------|
| 11- 1021.00 | General and Operations Managers | 16,924 |
| 11- 1011.00 | Chief Executives | 9,074 |
| 11- 9151.00 | Social and Community Service Managers | 4,178 |
| 11- 3071.00 | Transportation, Storage, and Distribution Managers | 3,538 |
| 11- 3071.04 | Supply Chain Managers | 2,636 |
| 11- 9199.02 | Compliance Managers | 2,213 |
| 11- 9199.00 | Managers, All Other | 2,015 |
| 11- 9199.08 | Loss Prevention Managers | 1,215 |
| 11- 1011.03 | Chief Sustainability Officers | 268 |
| 11- 9199.01 | Regulatory Affairs Managers | 206 |

Locations

| Location | Active Job Ads |
|---------------------------|----------------|
| San Francisco, California | 2,381 |
| Los Angeles, California | 2,310 |
| San Diego, California | 1,210 |
| Sacramento, California | 870 |
| San Jose, California | 816 |
| Oakland, California | 499 |

Locations

**Active
Job
Ads**

| Location | | |
|-------------------------|-----|---|
| Irvine, California | 461 |  |
| Fremont, California | 280 |  |
| Santa Clara, California | 279 |  |
| Palo Alto, California | 272 |  |

Employers

| Employer Name | Active Job Ads | |
|-------------------------|----------------|--|
| CVS | 828 | |
| HomeDepot | 440 | |
| NORTHROP GRUMMAN | 374 | |
| CBRE | 255 | |
| United Health Group | 235 | |
| TESLA | 214 | |
| PACIFIC DENTAL SERVICES | 188 | |
| Meta | 182 | |
| Amazon.com Services LLC | 159 | |
| Del Taco LLC | 158 | |

Certifications

| Certificate Name | Active Job Ads | |
|--|----------------|--|
| Driver's License | 1,195 | |
| Certification in Cardiopulmonary Resuscitation (CPR) | 560 | |
| First Aid Certification | 453 | |
| Certified Public Accountant (CPA) | 351 | |
| Project Management Professional (PMP) | 343 | |
| Licensed Clinical Social Worker (LCSW) | 282 | |
| Secret Clearance | 227 | |
| Associate Service Executive (ASE) | 128 | |
| Certified Supply Chain Professional (CSCP) | 74 | |
| Commercial Driver's License (CDL) | 74 | |

Hard Skills

| Skill Name | Active Job Ads | |
|------------------------|----------------|--|
| Microsoft Excel | 7,767 | |
| Microsoft Office | 7,228 | |
| Microsoft PowerPoint | 3,712 | |
| Microsoft Outlook | 2,971 | |
| Presentation | 2,484 | |
| Microsoft Word | 2,312 | |
| Finance | 2,212 | |
| Operations Management | 2,204 | |
| Teaching/Training, Job | 1,700 | |
| Spanish | 1,685 | |

Soft Skills

| Skill Name | Active Job Ads | |
|--|----------------|--|
| Communication (Verbal and written skills) | 29,325 | |
| Supervision/Management | 19,892 | |
| Cooperative/Team Player | 19,237 | |
| Problem Solving | 9,997 | |
| Leadership | 9,843 | |
| Customer Service | 9,131 | |
| Analytical | 8,821 | |
| Organization | 8,807 | |
| Interpersonal Relationships/Maintain Relationships | 7,724 | |
| Detail Oriented/Meticulous | 6,782 | |

Job Titles

| Job Title | Active Job Ads | |
|-----------------------------|----------------|--|
| General Manager | 2,013 | |
| Operations Manager | 1,832 | |
| Unclassified | 957 | |
| Executive Director | 628 | |
| Operations Manager-CA | 513 | |
| Assistant General Manager | 481 | |
| Asset Protection Specialist | 442 | |
| Warehouse Manager | 337 | |
| Area Manager | 281 | |
| Program Manager | 244 | |

Job Types

| Type | Active Job Ads | |
|-------------------------|----------------|--|
| Full-Time | 25,737 | |
| Remote | 3,053 | |
| Permanent | 3,048 | |
| Part-Time | 1,169 | |
| Temporary (unspecified) | 887 | |
| Temporary (long-term) | 163 | |
| Temporary (short-term) | 72 | |
| Temp-to-Hire | 66 | |
| Remote Not Indicated | 39,442 | |

Programs

| Program Name | Active Job Ads | |
|-------------------------|----------------|--|
| Business | 3,683 | |
| Business Administration | 3,593 | |
| Engineering | 2,422 | |
| Finance | 1,232 | |
| Supply Chain | 861 | |
| Social Work | 777 | |
| Accounting | 773 | |
| Computer Science | 705 | |
| Logistics | 604 | |
| Marketing | 591 | |

Education Levels

| Minimum Education Level | Active Job Ads | |
|-----------------------------------|----------------|--|
| Bachelor's degree | 17,938 | |
| High school diploma or equivalent | 5,523 | |
| Master's degree | 2,067 | |
| Associate's degree | 1,031 | |
| Doctoral or professional degree | 351 | |
| Unspecified/other | 15,585 | |

California Regional Map



FAQ

What is CIP?

The 2010 Classification of Instructional Programs (CIP) is taxonomy of instructional program classifications and descriptions. It was developed and has been updated by the U.S. Department of Education's National Center for Education Statistics (NCES).

What is SOC?

The Standard Occupational Classification system (SOC) is used to classify workers into occupational categories. All workers are classified into one of over 804 occupations according to their occupational definition. To facilitate classification, occupations are combined to form 22 major groups, 95 minor groups, and 452 occupation groups. Each occupation group includes detailed occupations requiring similar job duties, skills, education, or experience.

What is the source of the job ads?

Job ads data are online job posts from the Real-Time Intelligence (RTI) data set, produced wholly by Chmura and gleaned from over 40,000 websites. Data reflect ads active during the last twelve month period ending 07/06/2023 and advertised for any Zip Code Tabulation Area in or intersecting with the region for which this report was produced. Historical ad volume is revised as additional data are made available and processed. Since many extraneous factors can affect short-term volume of online job postings, time-series data can be volatile and should be used with caution. All ad counts represent deduplicated figures.

What is the program-to-occupation crosswalk?

Training programs are classified according to the Classification of Instructional Programs (CIP codes). For relating training programs, this report uses a modified version of the CIP to SOC crosswalk from the National Center for Education Statistics (NCES). While this is a very helpful crosswalk for estimating occupation production from training program awards data, the crosswalk is neither perfect nor comprehensive. Indeed, it is hard to imagine such a crosswalk being perfect since many training program graduates for one reason or another do not end up employed in occupations that are most related to the training program from which they graduated. Therefore, the education program analyses should be considered in this light.

As an example of the many scenarios that may unfold, consider a journalism degree that crosswalks into three occupations: editors, writers, and postsecondary communications teachers. Graduates with a journalism degree may get a job in one of these occupations—and that may be the most-likely scenario—but a good number of these graduates may get a job in a different occupation altogether (the job may be somewhat related, such as a reporter, or the job may be totally unrelated, such as a real estate agent). Furthermore, a graduate may stay in school or go back to school for a degree that will lead to other occupation possibilities. Still another possibility includes the graduate not entering the labor market (maybe being unemployed, being a non-participant, or moving to another region).

What is separation demand?

Separation demand is the number of jobs required due to separations—labor force exits (including retirements) and turnover resulting from workers moving from one occupation into another. Note that separation demand does not include all turnover—it does not include when workers stay in the same occupation but switch employers. The total projected demand for an occupation is the sum of the separation demand and the growth

demand (which is the increase or decrease of jobs in an occupation expected due to expansion or contraction of the overall number of jobs in that occupation).

What is a location quotient?

A location quotient (LQ) is a measurement of concentration in comparison to the nation. An LQ of 1.00 indicates a region has the same concentration of an occupation (or industry) as the nation. An LQ of 2.00 would mean the region has twice the expected employment compared to the nation and an LQ of 0.50 would mean the region has half the expected employment in comparison to the nation.

What is NAICS?

The North American Industry Classification System (NAICS) is used to classify business establishments according to the type of economic activity. The NAICS Code comprises six levels, from the “all industry” level to the 6-digit level. The first two digits define the top level category, known as the “sector,” which is the level examined in this report.

About This Report

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