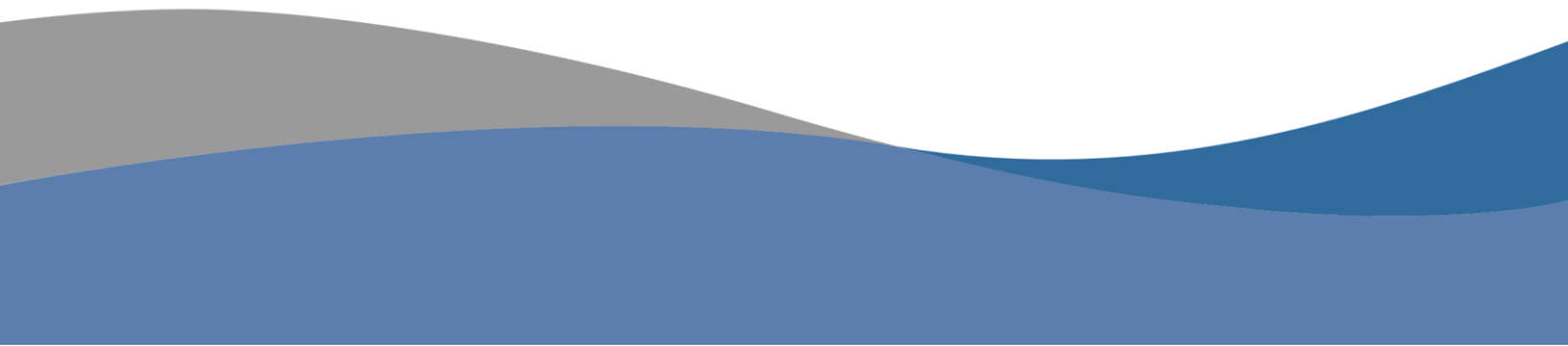




Education Report

Gerontology

California



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Definition of Gerontology, CIP 30.1101

A program that focuses on the human aging process and aged human populations, using the knowledge and methodologies of the social sciences, psychology and the biological and health sciences.

Awards

The table below is a list of postsecondary awards in CIP 30.1101 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
University of Southern California		19	138	\$26,021
California State University-Sacramento		65		\$7,778
California State University-Fullerton			16	\$4,939
Ashford University		12		\$23,585
California State University-Long Beach			12	\$9,171
San Diego State University		9		\$6,867
San Francisco State University			8	\$13,641
California State University-Northridge		3		\$8,708
Loma Linda University			2	
University of La Verne			1	\$22,538
California State University-Los Angeles				\$2,695
Mount Saint Mary's University				\$24,508
Total	0	108	177	

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, Gerontology, CIP 30.1101.

		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
19-1042	Medical Scientists, Except Epidemiologists	Doctoral or professional degree	None	None	1%	0%	0%	20%	79%
19-3099	Social Scientists and Related Workers, All Other	Bachelor's degree	None	None	1%	3%	3%	33%	59%
25-1071	Health Specialties Teachers, Postsecondary	Doctoral or professional degree	Less than 5 years	None	1%	1%	1%	14%	83%
25-1113	Social Work Teachers, Postsecondary	Doctoral or professional degree	None	None	1%	1%	1%	14%	83%

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 Medical Scientists, Except Epidemiologists (19-1042)

Conduct research dealing with the understanding of human diseases and the improvement of human health. Engage in clinical investigation, research and development, or other related activities.

Definition of Social Scientists and Related Workers, All Other (19-3099)

All social scientists and related workers not listed separately.

Definition of Health Specialties Teachers, Postsecondary (25-1071)

Teach courses in health specialties, in fields such as dentistry, laboratory technology, medicine, pharmacy, public health, therapy, and veterinary medicine.

Definition of Social Work Teachers, Postsecondary (25-1113)

Teach courses in social work. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Occupation Details

As of 2022Q4, total employment for occupations linked to Gerontology in California was 31,226. Over the past three years, linked occupations added 1,387 jobs in the region and are expected to need in aggregate approximately 20,664 newly trained workers over the next seven years.

Snapshot of Occupations Linked to Gerontology 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 %
19-1042	Medical Scientists, Except Epidemiologists	18,885	\$129,600	1.33	73	0.4%	2,435	2.4%	11,378	2,149	6,734	2,495	1.8%
25-1071	Health Specialties Teachers, Postsecondary	8,436	\$144,300	0.37	156	1.9%	2,167	0.3%	6,659	2,911	2,459	1,289	2.1%
19-3099	Social Scientists and Related Workers, All Other	3,745	\$85,000	0.84	16	0.5%	61	0.1%	2,518	611	1,832	75	0.3%
25-1113	Social Work Teachers, Postsecondary	160	\$87,100	0.11	3	1.8%	25	2.0%	109	53	44	12	1.0%
Total - Linked Occupations		31,226	\$128,000	0.73	248	0.8%	4,688	1.5%	20,664	5,724	11,069	3,871	1.7%
Total - All Occupations		19,219,968	\$71,900	1.00	797,161	4.1%	547,112	0.6%	17,029,863	6,722,656	9,379,252	927,955	0.7%

Source: [JobsEQ®](#)

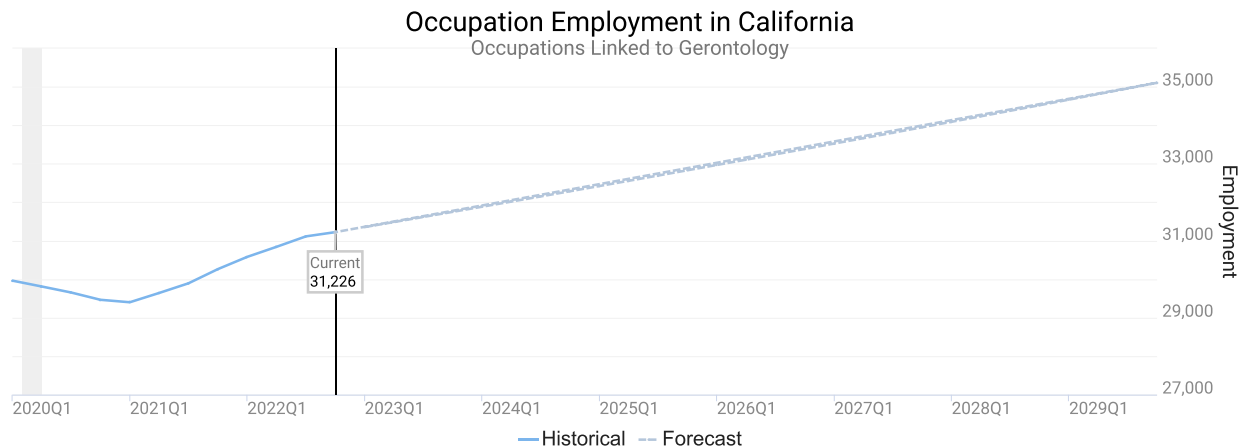
Data as of 2022Q4 unless noted otherwise

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 Gerontology. The single industry most employing these occupations in the region is Scientific Research and Development Services, NAICS 5417. This industry employs 11,212 workers in the linked occupations—employment which is expected to increase by 2,797 jobs over the next ten years; furthermore, 7,966 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 Gerontology in California

NAICS Code	Industry Title	Current			10-Year Demand		
		% of Occ Empl	Empl	Exits	Transfers	Empl Growth	Total Demand
5417	Scientific Research and Development Services	35.9%	11,212	1,933	6,033	2,797	10,764
6113	Colleges, Universities, and Professional Schools	30.3%	9,471	3,789	4,332	2,106	10,227
6221	General Medical and Surgical Hospitals	7.2%	2,238	449	1,045	110	1,604
6112	Junior Colleges	4.1%	1,295	613	519	165	1,296
6214	Outpatient Care Centers	2.7%	855	176	418	136	730
6215	Medical and Diagnostic Laboratories	2.5%	792	124	389	86	600
3254	Pharmaceutical and Medicine Manufacturing	2.5%	770	120	374	65	559
9281	National Security and International Affairs	1.7%	543	120	360	-25	454
9221	Justice, Public Order, and Safety Activities	1.2%	363	79	236	-12	303
5511	Management of Companies and Enterprises	1.1%	330	53	164	9	225
5416	Management, Scientific, and Technical Consulting Services	1.0%	317	64	196	37	297
6211	Offices of Physicians	0.7%	230	47	111	20	179
9211	Executive, Legislative, and Other General Government Support	0.7%	215	47	141	0	188
9231	Administration of Human Resource Programs	0.7%	212	47	140	-1	186
5613	Employment Services	0.6%	201	38	116	14	168
6223	Specialty (except Psychiatric and Substance Abuse) Hospitals	0.6%	177	30	88	24	141
6115	Technical and Trade Schools	0.5%	168	83	70	41	195
8131	Religious Organizations	0.5%	160	39	117	21	176
9261	Administration of Economic Programs	0.5%	156	34	102	-6	129
	All Others	4.9%	1,522	301	874	101	1,276

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.

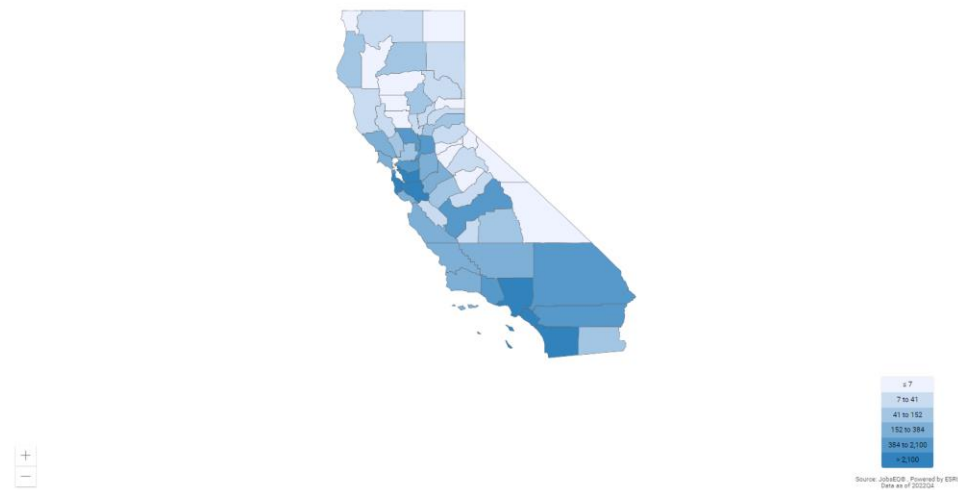
Occupation employment data are estimated via industry employment data and the industry/occupation mix. Industry employment data are derived from the Quarterly Census of Employment and Wages, provided by the Bureau of Labor Statistics and currently updated through 2022Q3, imputed where necessary with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

Geographic Distribution

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

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

export



Top Counties with Employment Linked to Gerontology, 2022Q4

Region	Employment
Los Angeles County, California	6,758
San Diego County, California	4,841
Santa Clara County, California	2,884
Alameda County, California	2,636
San Mateo County, California	2,183
Orange County, California	2,101
San Francisco County, California	1,866
Sacramento County, California	1,045
San Bernardino County, California	635
Riverside County, California	580

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

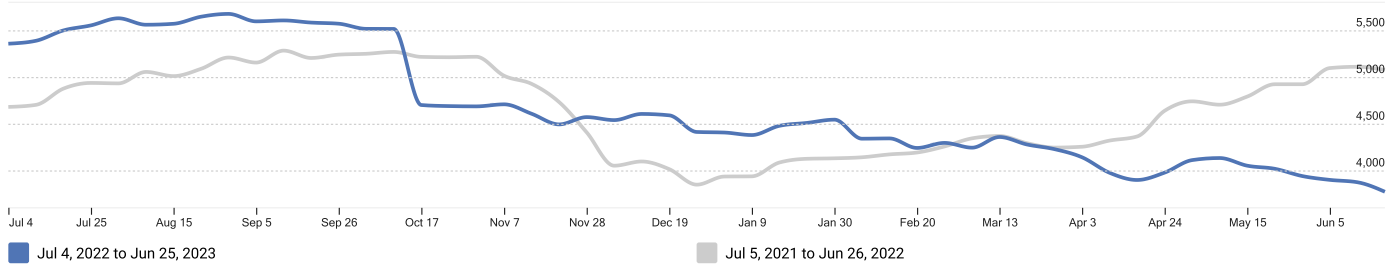
2. Median values for certain aggregate regions (such as MSAs) may be estimated as the weighted averages of the median values from the composing counties.

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
19- 1042.00	Medical Scientists, Except Epidemiologists	13,619
25- 1071.00	Health Specialties Teachers, Postsecondary	6,202
19- 3099.01	Transportation Planners	237
25- 1113.00	Social Work Teachers, Postsecondary	65
19- 3099.00	Social Scientists and Related Workers, All Other	58

Locations

Location	Active Job Ads
Los Angeles, California	1,531
San Diego, California	1,204
South San Francisco, California	971
San Francisco, California	833
University of Southern California (USC)	812
University of California San Francisco	624
University of California Los Angeles	539
University of California Davis	502
University of California San Diego	303
Foster City, CA 94404	281

Employers

Employer Name	Active Job Ads	
Los Angeles, California	1,322	
University of Southern California	828	
San Francisco, California	642	
Cedars-Sinai	627	
Genentech	474	
Davis, California	413	
Stanford University	410	
UCLA HEALTH	368	
Abbvie	356	
Gilead	350	

Certifications

Certificate Name	Active Job Ads	
Certification in Cardiopulmonary Resuscitation (CPR)	449	
Registered Dental Assistant (RDA)	328	
Basic Life Support (BLS)	147	
Driver's License	117	
Certified Dental Assistant (CDA)	90	
Certified in Internal Medicine	78	
Doctor of Veterinary Medicine (DVM)	64	
Advanced Cardiac Life Support Certification (ACLS)	61	
Family Nurse Practitioner (FNP-BC)	61	
Secret Clearance	45	

Hard Skills

Skill Name	Active Job Ads	
Molecular Biology	3,069	
Teaching/Training, School	2,811	
Cell Culture	2,512	
Data Analysis	2,385	
Microsoft Excel	2,210	
Polymerase Chain Reaction (PCR)	1,546	
Flow Cytometry	1,339	
Microsoft Office	1,244	
Pharmacology	1,218	
Enzyme-Linked Immunosorbent Assay (ELISA)	1,196	

Soft Skills

Skill Name	Active Job Ads	
Communication (Verbal and written skills)	10,764	
Cooperative/Team Player	8,104	
Organization	4,317	
Self-Motivated/Ability to Work Independently/Self Leadership	3,944	
Analytical	3,730	
Detail Oriented/Meticulous	3,157	
Interpersonal Relationships/Maintain Relationships	2,775	
Problem Solving	2,426	
Ability to Work in a Fast Paced Environment	1,798	
Adaptability/Flexibility/Tolerance of Change and Uncertainty	1,649	

Job Titles

Job Title	Active Job Ads	
Research Associate	405	
Dental Assistant	296	
Staff Research Associate	240	
Postdoctoral Scholar - Research Associate	156	
Scientist	151	
Research Scientist	137	
Staff Research Associate II	116	
Research Associate I	115	
Research Assistant	113	
Staff Research Associate I	102	

Job Types

Type	Active Job Ads	
Full-Time	10,663	
Permanent	2,401	
Part-Time	1,255	
Temporary (unspecified)	889	
Remote	616	
Temporary (long-term)	236	
Temporary (short-term)	56	
Temp-to-Hire	34	
Remote Not Indicated	19,565	

Programs

Program Name	Active Job Ads	
Biology	2,720	
Biochemistry	1,843	
Science	1,550	
Chemistry	1,341	
Molecular Biology	1,107	
Medicine	1,055	
Immunology	967	
Life Science	821	
Cell Biology	537	
Pharmacy	535	

Education Levels

Minimum Education Level	Active Job Ads	
Bachelor's degree	6,351	
Doctoral or professional degree	5,081	
Master's degree	2,130	
Associate's degree	593	
High school diploma or equivalent	10	
Unspecified/other	6,016	

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 07/05/2023 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

This report and all data herein were produced by JobsEQ®, a product of Chmura Economics & Analytics. The information contained herein was obtained from sources we believe to be reliable. However, we cannot guarantee its accuracy and completeness.