

Education Report

Economics, General

California



Definition of Economics, General, CIP 45.0601	3
Awards	4
Occupation Crosswalk	9
Occupation Details	10
Employment by Industry	11
Geographic Distribution	12
Demographic Profile	13
RTI (Job Postings)	14
California Regional Map	20
FAQ	21

Definition of Economics, General, CIP 45.0601

A general program that focuses on the systematic study of the production, conservation and allocation of resources in conditions of scarcity, together with the organizational frameworks related to these processes. Includes instruction in economic theory, micro- and macroeconomics, comparative economic systems, money and banking systems, international economics, quantitative analytical methods, and applications to specific industries and public policy issues.

Awards

The table below is a list of postsecondary awards in CIP 45.0601 that were granted by institutions located in California in the 2021 academic year.

Schools	Certs & 2yr Awards ¹	4yr Awards²	Post-Grad Awards ³	Avg Net Price ⁴
University of California-Irvine		394		\$11,633
Pasadena City College	328			\$6,466
San Diego State University		240	19	\$6,867
California State University- Sacramento		209	5	\$7,778
Santa Barbara City College	193			\$14,000
Grossmont College	159			\$5,999
West Valley College	138			\$6,890
San Jose State University		118	8	\$14,603
University of California-Santa Cruz		123		\$19,615
Moorpark College	122			\$4,856
Golden West College	112			\$5,433
East Los Angeles College	109			\$12,028
Santa Clara University		103		\$48,469
Los Angeles Valley College	101			\$11,833
Diablo Valley College	98			\$8,878
Los Angeles Pierce College	98			\$12,995
California Polytechnic State University-San Luis Obispo		97		\$20,708
California State University- Northridge		95		\$8,708
Sierra College	87			\$5,921
Folsom Lake College	86			\$8,276
California State University-Long Beach		80	4	\$9,171
College of San Mateo	76			\$5,427
San Francisco State University		74	1	\$13,641
California State University- Fullerton		73		\$4,939
Pepperdine University		65		\$40,945
De Anza College	64			\$8,236
Saddleback College	62			\$7,918
Santa Monica College	61			\$6,380
California State Polytechnic University-Pomona		45	9	\$12,942
California State University-San Marcos		54		\$14,296
El Camino Community College District	51			\$13,296



Schools	Certs & 2yr Awards ¹	4yr Awards²	Post-Grad Awards ³	Avg Net Price ⁴
Southwestern College	51			\$6,789
American River College	48			\$8,101
Cuesta College	48			\$14,586
California State University-East Bay		33	13	\$12,631
Chabot College	44			\$8,576
Canada College	42			\$5,923
Oxnard College	41			\$3,441
Chaffey College	40			\$13,939
Antelope Valley Community College District	39			\$6,203
Evergreen Valley College	38			\$15,650
Foothill College	38			\$9,820
Orange Coast College	37			\$6,836
Sonoma State University		36		\$7,055
College of the Canyons	33			\$6,400
University of California-Merced		33		\$11,586
Cuyamaca College	32			\$6,460
Ohlone College	32			\$12,787
California State University-Los Angeles		19	12	\$2,695
California State University-Chico		30		\$13,749
Cypress College	30			\$7,951
Claremont Graduate University			29	
Fullerton College	29			\$11,191
Coastline Community College	28			\$8,953
California State University- Fresno		26		\$6,336
California State University-San Bernardino		26		\$3,254
Irvine Valley College	25			\$4,860
Hartnell College	23			\$7,721
Monterey Peninsula College	23			\$12,007
Bakersfield College	22			\$6,989
City College of San Francisco	22			\$9,261
Cabrillo College	21			\$18,139
Cerritos College	21			\$9,557
Mt San Jacinto Community College District	21			\$7,704
Santa Rosa Junior College	21			\$9,220
Berkeley City College	20			\$13,556

Schools	Certs & 2yr Awards ¹	4yr Awards ²	Post-Grad Awards ³	Avg Net Price ⁴
Las Positas College	19			\$7,675
Citrus College	18			\$8,852
University of Southern California			18	\$26,021
California State University- Channel Islands		17		\$14,493
Saint Mary's College of California		17		\$25,022
San Diego Miramar College	16			\$7,880
California State University- Stanislaus		15		\$7,230
Clovis Community College	15			\$6,305
Glendale Community College	15			\$7,823
Long Beach City College	15			\$6,550
Merritt College	15			\$16,194
California State Polytechnic University-Humboldt		14		\$13,904
California State University- Bakersfield		14		\$7,368
University of San Francisco		14		\$39,825
Mission College	13			\$6,727
San Jose City College	13			\$17,618
Santiago Canyon College	13			\$5,879
Laney College	12			\$16,494
Pitzer College		12		\$19,153
University of Redlands		12		\$21,578
Fresno City College	11			\$6,391
Sacramento City College	11			\$7,788
Santa Ana College	11			\$6,351
San Diego Mesa College	10			\$7,663
Ventura College	10			\$3,971
Whittier College		10		\$22,091
California Lutheran University		9		\$24,065
Palomar College	9			\$6,659
Riverside City College	9			\$7,161
Merced College	8			\$13,426
Rio Hondo College	8			\$7,873
Butte College	7			\$10,736
College of Marin	7			\$7,717
Cosumnes River College	7			\$7,223
Crafton Hills College	7			\$20,456
Imperial Valley College	7			\$2,300

Deliver of Alamena	Schools	Certs & 2yr Awards ¹	4yr Awards²	Post-Grad Awards ³	Avg Net Price ⁴
College of the Desert 6 \$154,709 Solano Community College 6 \$5,930 Los Angeles Farfor College 3 \$12,737 Contra Coltac College 4 \$3,400 College of Municipation Community 4 \$2,800 Mills College 4 \$2,800 Mills College 4 \$2,800 Mills College 4 \$2,800 Sim Diego City College 4 \$2,800 West Los Angeles College 4 \$2,800 College of the Sequolas 3 \$2,800 Los Serra University 3 \$2,800 College of the Sequolas 3 \$2,800 Los Serra University of the Pacific 3 \$2,800 College of the Sequolas 2 \$2,800 Malers Community College 2 \$2,800 College of the Sequolas 1 \$2,800 <td>University of La Verne</td> <td></td> <td>7</td> <td></td> <td>\$22,538</td>	University of La Verne		7		\$22,538
Solano Community College	College of Alameda	6			\$12,583
Los Angeles Harbor College 5 \$12,787 Corrar Costa College 4 \$3,406 Copper Mountain Community 4 \$8,782 Mendocino College 4 \$8,865 Mellis College 4 \$2,2,383 Reedley College 4 \$2,000 San Diego City College 4 \$3,000 West Los Angeles College 4 \$3,000 College of the Sequoiss 3 \$3,000 La Sierra University \$3,000 \$3,000 Talt College 2 \$3,000 Talt College 2 \$3,000 Collegia Linitette of Teaching \$1 \$3,000 Collegia Linitette of Teaching Linitette	College of the Desert	6			\$14,179
Contra Costa College 4 5,9,46 Copport Aboutsain Community 4 5,8,46 Mendocino College 4 5,8,46 Micro College 4 52,82 Reedley College 4 5,7,88 San Diego City College 4 5,7,88 West to Sangeles College 4 5,7,88 West to Sangeles College 4 5,7,88 College of the Sequious 3 5,7,20 College of the Sequious 3 5,7,20 La Sierra University 3 5,7,33 Tail College 3 5,7,33 College of the Sequious 3 5,7,33 La Sierra University 3 5,7,33 Tail College 3 5,7,33 College of the Sequious 2 5,7,33 College of the Sequious 3 5,7,33 Tail College 3 5,7,33 College of the Sequious 2 5,7,33 College of the Sequious 3 5,7,33 College of the Sequious </td <td>Solano Community College</td> <td>6</td> <td></td> <td></td> <td>\$5,950</td>	Solano Community College	6			\$5,950
College Mountain Community College 4 \$8,486 Mills College 4 \$2,523 Readley College 4 \$2,523 San Diego City College 4 \$3,370 West Los Angeles College 4 \$3,370 Woodland Community College 4 \$3,200 College of the Sequida 3 \$5,250 Talk College 3 \$2,213 Talk College 3 \$2,213 Substrat University 3 \$2,213 Tolloge of the Sequida 3 \$2,213 Talk College 3 \$2,213 Talk College 3 \$2,213 Talk College 3 \$2,213 Madera Community College 3 \$2,213 California Institute of Talk College 1 \$2,524 California Institute of Talk College 1 \$2,524 California Institute of Talk College 1 \$2,525 California Institute of Talk College 1 \$2,525 California Institute of Talk College \$2,525	Los Angeles Harbor College	5			\$12,787
College 4 \$8,485 Mendocin College 4 \$2,528 Recelley College 4 \$5,088 San Diego City College 4 \$8,370 West Los Angeles College 4 \$10,229 Woodland Community College 4 \$10,229 Woodland Community College 4 \$10,229 La Sierra University 3 \$25,220 La Sierra University 3 \$25,220 La Sierra University of the Pacific 3 \$21,311 College of the Sequoiss 3 \$21,311 College Sierra University of the Pacific 3 \$21,311 College Germanity College 2 \$10,022 Mediera Community College 2 \$20,022 College Institute of Texteriology 1 \$20,022 College Sierra University-Invine \$20,022 \$20,022	Contra Costa College	4			\$9,405
Milks College		4			\$8,749
Realey College	Mendocino College	4			\$8,465
San Deigno Circ College 4 \$6,375 West Los Angeles College 4 \$7,480 Woodland Community College 3 \$5,200 La Sierra University 3 \$5,220 La Sierra University of the Pacific 3 \$2,131 Columbia College 2 \$1,073 Madera Community College 2 \$1,073 California Institute of Technology 1 \$2,660 California Institute of Technology 1 \$2,660 Cavillan College 1 \$2,600 Cavillan College 1 \$1,000 California Institute of Technology \$1,000 \$3,000 Cavillan College 1 \$2,600 Gavillan College 1 \$1,000 California State University-Dominiquez Hills \$4,000 California State University-Dominiquez Hills \$1,000 California College \$1,000 College \$1,000 Scripps College \$1,000 Scripps College \$1,000 Scripps College \$1,000	Mills College		4		\$25,283
West Los Angeles College 4 \$7,480 Woodland Community College 4 \$7,480 College of the Sequoias 3 \$2,522 La Sierra University 3 \$2,522 Taff College 3 \$7,143 University of the Pacific 3 \$2,131 Columbia College 2 \$7,143 Madera Community College 2 \$7,143 California Institute of Technology 1 \$3,042 Concordia University-Invine 1 \$5,640 Cassen Community College 1 \$1,043 California Institute of Technology 1 \$1,043 California Santa University-Dominguez Hills \$5,640 California Santa University-Dominguez Hills \$4,040 California Santa University-Dominguez Hills \$5,940 College \$5,940 Pormona College \$5,940 Pormona College \$5,940 Schippinguez Hills \$5,940 Schippinguez Hills \$5,940 Winiversity of California-Breveley \$1,560	Reedley College	4			\$7,089
Woodland Community College 4 57,80 College of the Sequolas 3 52,50 La Sierra University 3 52,53 Taft College 3 51,41 University of the Pacific 3 51,41 Collumbia College 2 51,71 Madera Community College 2 51,72 California Institute of Technology 1 50,61 Concordia University-Irvine 1 58,76 Gavilan College 1 51,75 California State University-Dominguez Hills 51,75 College at University-Dominguez Hills 54,50 California College 5,946 Pomona College 51,70 Scripps College 51,70 Skyline College 51,70 Skyline College 54,85 Stanford University 51,70 University of California-Berkeley 51,70 University of California-Berkeley 51,70 University of California-California-California-California-California-California-California-California-California-California-California-California-California-California-	San Diego City College	4			\$8,370
College of the Sequolas 3 55,202 La Sierra University 3 525,230 Taft College 3 7,143 University of the Pacific 3 51,313 Columbia College 2 51,733 Madera Community College 2 51,733 Madera Community College 2 51,733 California Institute of Technology 3 53,6162 Cancordia University-Irvine 1 53,630 Caremont McKenna College 1 51,733 California State University-Demire 1 51,733 Caremont McKenna College 1 51,733 Caremont McKenna College 5 51,730 Children State University 5 51,730 Children State University 5 51,730 Children State University of California Pavis 5 51,730 Children State University 5 51,730 Children State University	West Los Angeles College	4			\$10,259
La Sierra University 3 \$52,30 Taft College 3 \$21,311 University of the Pacific 3 \$21,311 Collumbia College 2 \$10,735 Madera Community College 2 \$30,162 California Institute of Technology 1 \$30,162 Concordia University-Irvine 1 \$8,705 Cavilan College 1 \$8,705 Lassen Community College 1 \$1,000 California State University-Dollege 1 \$4,000 California State University \$4,000 California State University \$1,000 California State University \$1,000 California College \$1,000 College \$6,946 Pomona College \$1,000 Scripps College \$1,000 Scripps College \$4,000 University of California-Berkeley \$1,000 University of California-Berkeley \$1,000 University of California-College \$1,000 University of California-College \$1,000	Woodland Community College	4			\$7,480
Tark College 3 57,143 University of the Pacific 3 521,311 Columbia College 2 510,335 Madera Community College 2 510,335 California Institute of Fechnology 1 510,602 Concordia University-Irvine 1 525,640 Gavilan College 1 587,055 California State University-Dominguez Hills 511,495 California State University-Dominguez Hills 45,000 Cale Gate University 52,640 MiraCosta College 1 51,600 Soripas College 51,600 51,600 Soripas College 51,000 51,000 Soripas College 51,000 51,000 Soripas College 51,000 51,000 Soripas College 54,000 51,000 Soripas College 54,000 51,000 Soripas College 54,000 51,000 Soripas College 54,000 51,000 Soripas College 51,000 51,000 Soripas College </td <td>College of the Sequoias</td> <td>3</td> <td></td> <td></td> <td>\$5,205</td>	College of the Sequoias	3			\$5,205
New Stay of the Pacific 3 \$21,313	La Sierra University		3		\$25,230
Columbia College 2 Madera Community College 2 California Institute of Technology 1 \$30,162 Concordia University-Irvine 1 \$25,660 Gavilan College 1 \$8,705 California State University-Ordina State-Ordina Stat	Taft College	3			\$7,143
Madera Community College 2 California Institute of Technology 1 \$30,162 Concordia University-Invine 1 \$25,640 Gavilan College 1 \$8,705 Lassen Community College 1 \$1,495 California State University-Dominguez Hills \$4,500 Claremont McKenna College \$21,663 Golden Gate University \$5,946 Pomona College \$1,700 Scripps College \$1,700 Scripps College \$4,477 Skyline College \$4,477 Skyline College \$4,477 University of California-Berkeley \$1,400 University of California-Davis \$1,502 University of California-Davis \$1,303 University of California-Riverside \$1,502 University of California-Riverside \$1,502	University of the Pacific		3		\$21,311
California Institute of Technology 1 930,162 Concordia University-invine 1 1 925,640 Gavilan College 1 931,495 California State University-Dominiguez Hills 931,495 California State University 941,495 California State University 941	Columbia College	2			\$10,735
Technology Concordia University-Irvine 1 1 \$25,640 Gavilan College 1 \$3,005 Lassen Community College 1 \$1,495 California State University- Dominguez Hills Claremont McKenna College State University MiraCosta College MiraCosta College MiraCosta College MiraCosta College State University State University of California-Berkeley University of California-Davis University of California-Cos Angeles University of California-Riverside University of California-San	Madera Community College	2			
Gavilan College 1 \$8,705 Lassen Community College 1 \$11,495 California State University-Dominia State University-Dominia State University-Dominia State University-Dominia State University-Dominia State University \$4,500 Claremont McKenna College \$21,663 Golden Gate University \$6,946 Pomona College \$17,000 Scripps College \$4,470 Skyline College \$4,885 Stanford University \$14,402 University of California-Berkeley \$17,652 University of California-Davis \$13,502 University of California-Riverside \$13,502 University of California-Riverside \$15,532			1		\$30,162
Lassen Commity College 1 \$11,495 California State University- Commitguez Hills \$4,500 Claremont McKenna College \$21,663 Claremont McKenna College \$21,663 Golden Gate University MiraCosta College \$6,946 Pomona College \$17,000 Scripps College \$17,000 Scripps College \$4,4770 Skyline College \$4,4875 Chiversity of California-Berkeley \$17,652 University of California-Davis \$16,640 University of California-Los Angeles University of California-Riverside \$13,502 University of California-Riverside \$13,502	Concordia University-Irvine		1		\$25,640
California State University- Dominguez Hills Claremont McKenna College Scolden Gate University MiraCosta College Scoldege Pomona College Scripps College Scripps College Stanford University University of California-Berkeley University of California-Davis University of California-Los Angeles University of California-Riverside	Gavilan College	1			\$8,705
Dominguez Hills Claremont McKenna College Scolden Gate University MiraCosta College Pomona College Scripps College Scripps College Scripps College Stanford University University of California-Berkeley University of California-Davis University of California-Los Angeles University of California-Riverside University of California-Riverside University of California-Riverside University of California-Riverside University of California-Cos Angeles University of California-Riverside University of California-Riverside University of California-Riverside University of California-Riverside	Lassen Community College	1			\$11,495
Golden Gate University Mira Costa College Pomona College Scripps College Skyline College Skyline College Skyline College Stunford University University of California-Berkeley University of California-Los Angeles University of California-Los Angeles University of California-Riverside University of California-San Stan San					\$4,500
MiraCosta College Pomona College \$17,000 \$cripps College \$44,770 \$kyline College \$44,885 Stanford University University of California-Berkeley University of California-Davis University of California-Los Angeles University of California-Riverside University of California-Riverside University of California-Riverside University of California-San	Claremont McKenna College				\$21,663
Pomona College \$17,000 Scripps College \$44,770 Skyline College \$4,885 Stanford University University of California-Berkeley \$17,652 University of California-Los Angeles \$13,393 University of California-Riverside \$13,502 University of California-San	Golden Gate University				
Scripps College \$44,770 Skyline College \$4,885 Stanford University \$14,402 University of California-Berkeley \$17,652 University of California-Davis \$16,640 University of California-Los \$13,393 University of California-Riverside \$13,502 University of California-San	MiraCosta College				\$6,946
Skyline College \$4,885 Stanford University University of California-Berkeley University of California-Davis University of California-Davis University of California-Los Angeles University of California-Riverside University of California-Riverside Stanford	Pomona College				\$17,000
Stanford University University of California-Berkeley University of California-Davis University of California-Davis University of California-Los Angeles University of California-Riverside University of California-Riverside University of California-San	Scripps College				\$44,770
University of California-Berkeley University of California-Davis University of California-Los Angeles University of California-Riverside University of California-Riverside University of California-San	Skyline College				\$4,885
University of California-Davis \$16,640 University of California-Los Angeles \$13,393 University of California-Riverside \$13,502 University of California-San	Stanford University				\$14,402
University of California-Los Angeles University of California-Riverside University of California-San \$13,393 University of California-San	University of California-Berkeley				\$17,652
Angeles \$13,393 University of California-Riverside \$13,502 University of California-San \$15,632	University of California-Davis				\$16,640
University of California-San \$15.632					\$13,393
	University of California-Riverside				\$13,502
					\$15,632



Schools	Schools Certs & 2yr Awards ¹ 4yr Aw		Post-Grad Awards ³	Avg Net Price ⁴
University of California-Santa Barbara				\$17,333
Total	3,163	2,126	118	

- 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, Economics, General, CIP 45.0601.

		Educat		Educat	ional Attai	nment			
		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	Postgraduat e Degree
11-9199	Managers, All Other	Bachelor's degree	Less than 5 years	None	12%	12%	6%	42%	28%
19-3011	Economists	Master's degree	None	None	0%	0%	0%	25%	75%
19-3022	Survey Researchers	Master's degree	None	None	1%	3%	3%	33%	60%
19-4061	Social Science Research Assistants	Bachelor's degree	None	None	11%	16%	12%	40%	21%
25-1063	Economics Teachers, Postsecondary	Doctoral or professional degree	None	None	1%	1%	1%	14%	83%
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's degree	None	None	0%	2%	1%	41%	56%

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 Managers, All Other (11-9199)

All managers not listed separately.

Definition of Economists (19-3011)

Conduct research, prepare reports, or formulate plans to address economic problems related to the production and distribution of goods and services or monetary and fiscal policy. May collect and process economic and statistical data using sampling techniques and econometric methods.

Definition of Survey Researchers (19-3022)

Plan, develop, or conduct surveys. May analyze and interpret the meaning of survey data, determine survey objectives, or suggest or test question wording. Includes social scientists who primarily design questionnaires or supervise survey teams.

Definition of Social Science Research Assistants (19-4061)

Assist social scientists in laboratory, survey, and other social science research. May help prepare findings for publication and assist in laboratory analysis, quality control, or data management.

Definition of Economics Teachers, Postsecondary (25-1063)

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

Definition of Secondary School Teachers, Except Special and Career/Technical Education (25-2031)

Teach one or more subjects to students at the secondary school level.

Occupation Details

As of 2022Q4, total employment for occupations linked to Economics, General in California was 213,001. Over the past three years, linked occupations added 22,128 jobs in the region and are expected to need in aggregate approximately 120,738 newly trained workers over the next seven years.

Snapshot of Occupations Linked to Economics, General in California¹

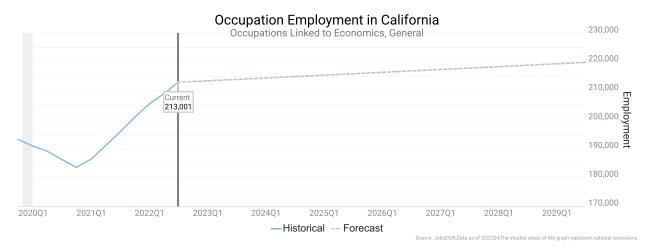
				Cı	ırrent			3-Year History	7-Year Forecast				
soc	Occupation	Empl	Mean Ann Wages²	LQ	Unempl	Unempl Rate	Online Job Ads³	Ann %	Total Demand	Exits	Transfers	Empl Growth	Avg Ann Growth %
25- 2031	Secondary School Teachers, Except Special and Career/Technical Education	105,321	\$100,400	0.85	2,531	2.4%	1,989	-1.0%	52,871	21,638	29,100	2,132	0.3%
11-9199	Managers, All Other	98,004	\$164,300	1.35	1,405	1.5%	1,394	10.6%	59,926	21,848	33,829	4,248	0.6%
19- 4061	Social Science Research Assistants	5,853	\$64,100	1.48	726	11.3%	25	1.3%	5,490	1,140	4,053	296	0.7%
19-3011	Economists	1,750	\$144,600	0.87	15	0.9%	23	1.5%	1,101	284	672	145	1.1%
19-3022	Survey Researchers	1,308	\$75,400	0.94	124	9.3%	9	-10.0%	857	211	634	12	0.1%
25- 1063	Economics Teachers, Postsecondary	764	\$179,800	0.54	14	1.8%	39	-1.4%	493	248	209	36	0.7%
	Total - Linked Occupations	213,001	\$129,300	1.03	4,814	2.3%	3,479	3.7%	120,738	45,370	68,498	6,870	0.5%
	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%

ource: JobsEQ®

Data as of 2022Q4 unless noted otherwise

Note: Figures may not sum due to rounding.

^{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.



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.

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

^{2.} Wage data represent the average for all Covered Employment

Employment by Industry

The table illustrates the industries in California which most employ occupations linked to Economics, General. The single industry most employing these occupations in the region is Elementary and Secondary Schools, NAICS 6111. This industry employs 104,878 workers in the linked occupations—employment which is expected to increase by 2,976 jobs over the next ten years; furthermore, 72,317 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 Economics, General in California

		Current			10-Year Demand		
NAICS Code	Industry Title	% of Occ Empl	Empl	Exits	Transfers	Empl Growth	Total Demand
6111	Elementary and Secondary Schools	49.2%	104,878	30,801	41,516	2,976	75,294
5417	Scientific Research and Development Services	3.3%	7,098	2,172	4,586	719	7,477
6113	Colleges, Universities, and Professional Schools	2.8%	6,036	1,892	4,349	472	6,714
5511	Management of Companies and Enterprises	2.5%	5,416	1,692	2,632	135	4,459
5416	Management, Scientific, and Technical Consulting Services	2.5%	5,262	1,662	2,725	571	4,958
9221	Justice, Public Order, and Safety Activities	1.8%	3,791	1,154	1,855	-7	3,002
2361	Residential Building Construction	1.7%	3,551	1,103	1,708	32	2,844
5415	Computer Systems Design and Related Services	1.6%	3,368	1,121	1,743	553	3,416
9211	Executive, Legislative, and Other General Government Support	1.4%	3,047	937	1,510	56	2,502
5613	Employment Services	1.3%	2,712	859	1,356	184	2,399
5611	Office Administrative Services	1.2%	2,591	835	1,293	227	2,355
9281	National Security and International Affairs	1.1%	2,400	716	1,128	-110	1,734
5419	Other Professional, Scientific, and Technical Services	1.1%	2,243	646	1,306	110	2,061
9231	Administration of Human Resource Programs	1.0%	2,192	670	1,079	20	1,770
6221	General Medical and Surgical Hospitals	1.0%	2,040	632	1,040	48	1,721
5413	Architectural, Engineering, and Related Services	0.7%	1,572	483	771	3	1,257
2362	Nonresidential Building Construction	0.7%	1,531	479	742	36	1,257
5121	Motion Picture and Video Industries	0.7%	1,521	506	784	246	1,536
5192	Web Search Portals, Libraries, Archives, and Other Information Services	0.7%	1,508	519	810	375	1,704
5241	Insurance Carriers	0.7%	1,465	469	728	113	1,310
	All Others	22.9%	48,776	15,479	24,212	3,132	42,823

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 Economics, General. Employment is shown by place of work.

California, Occupation Concentration by Place of Work for Occupations Linked to Economics, General [REPORT]







Top Counties with Employment Linked to Economics, General, 2022Q4

Region	Employment
Los Angeles County, California	52,365
San Diego County, California	19,366
Orange County, California	17,927
Santa Clara County, California	13,345
Riverside County, California	9,760
San Bernardino County, California	9,673
Alameda County, California	9,417
Sacramento County, California	8,489
San Francisco County, California	8,181
San Mateo County, California	5,670

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

Demographics Population (ACS) — Male 49.7% Female 50.3% Median Age² — Under 18 Years 22.8% 18 to 24 Years 9.5% 25 to 34 Years 15.3% 35 to 44 Years 13.3% 45 to 54 Years 12.8% 55 to 64 Years 12.0% 65 to 74 Years 8.3%	USA —	California	USA
Population (ACS) — Male 49.7% Female 50.3% Median Age² — Under 18 Years 22.8% 18 to 24 Years 9.5% 25 to 34 Years 15.3% 35 to 44 Years 13.3% 45 to 54 Years 12.8% 55 to 64 Years 12.0% 65 to 74 Years 8.3%	_		
Male 49.7% Female 50.3% Median Age² — Under 18 Years 22.8% 18 to 24 Years 9.5% 25 to 34 Years 15.3% 35 to 44 Years 13.3% 45 to 54 Years 12.8% 55 to 64 Years 12.0% 65 to 74 Years 8.3%	_		
Female 50.3% Median Age² — Under 18 Years 22.8% 18 to 24 Years 9.5% 25 to 34 Years 15.3% 35 to 44 Years 13.3% 45 to 54 Years 12.8% 55 to 64 Years 12.0% 65 to 74 Years 8.3%		39,346,023	326,569,308
Median Age² — Under 18 Years 22.8% 18 to 24 Years 9.5% 25 to 34 Years 15.3% 35 to 44 Years 13.3% 45 to 54 Years 12.8% 55 to 64 Years 12.0% 65 to 74 Years 8.3%	49.2%	19,562,882	160,818,530
Under 18 Years 22.8% 18 to 24 Years 9.5% 25 to 34 Years 15.3% 35 to 44 Years 13.3% 45 to 54 Years 12.8% 55 to 64 Years 12.0% 65 to 74 Years 8.3%	50.8%	19,783,141	165,750,778
18 to 24 Years 9.5% 25 to 34 Years 15.3% 35 to 44 Years 13.3% 45 to 54 Years 12.8% 55 to 64 Years 12.0% 65 to 74 Years 8.3%	_	36.7	38.2
25 to 34 Years 15.3% 35 to 44 Years 13.3% 45 to 54 Years 12.8% 55 to 64 Years 12.0% 65 to 74 Years 8.3%	22.4%	8,956,641	73,296,738
35 to 44 Years 13.3% 45 to 54 Years 12.8% 55 to 64 Years 12.0% 65 to 74 Years 8.3%	9.3%	3,724,239	30,435,736
45 to 54 Years 12.8% 55 to 64 Years 12.0% 65 to 74 Years 8.3%	13.9%	6,007,913	45,485,165
55 to 64 Years 12.0% 65 to 74 Years 8.3%	12.7%	5,233,903	41,346,677
65 to 74 Years 8.3%	12.7%	5,039,155	41,540,736
	12.9%	4,739,675	42,101,439
	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%		2,796,858	23,628,508
Uninsured 7.2%	34.0%	=,.55,550	-,,
Speak English Less Than Very Well (population 5 yrs and over) 17.4%	8.7%	2,806,173	28,058,903

Source: JobsEQ®

 $^{{\}it 1. American Community Survey 2016-2020, unless noted otherwise}\\$

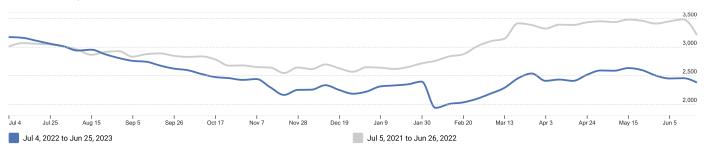
^{2.} Median values for certain aggregate regions (such as MSAs) may be estimated as the weighted averages of the median values from the composing counties.

^{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

		Active	
soc	Occupation	Job Ads	
25-2031.00	Secondary School Teachers, Except Special and Career/Technical Education	7,721	
11-9199.02	Compliance Managers	2,213	
11-9199.00	Managers, All Other	2,011	
11-9199.08	Loss Prevention Managers	1,215	
11-9199.01	Regulatory Affairs Managers	206	
25-1063.00	Economics Teachers, Postsecondary	156	
19-3011.00	Economists	137	
19-3022.00	Survey Researchers	117	
11-9199.11	Brownfield Redevelopment Specialists and Site Managers	106	
11-9199.09	Wind Energy Operations Managers	100	

Locations

Location	Active Job Ads	
Los Angeles, California	464	
San Francisco, California	383	
San Diego, California	290	
Oakland, CA 94607	210	
San Jose, California	201	
Sacramento, California	194	

Locations

	Active
	Job
Location	Ads
Irvine, California	133
Oakland, California	131
Fresno, California	78
Santa Clara, California	63

Employers

	Active
Employer Name	Job Ads
Oakland Unified School District	521
HomeDepot	439
Kaiser Permanente	211
Fusion Academy	129
Kern High School District	98
Bright Star Schools	90
Abbvie	84
United Health Group	72
Marriott	70
Amazon.com Services LLC	66

Certifications

	Active Job
Certificate Name	Ads
First Aid Certification	374
Driver's License	358
Certification in Cardiopulmonary Resuscitation (CPR)	355
Project Management Professional (PMP)	77
Certified Information Systems Auditor (CISA)	60
Loss Prevention Certified (LPC)	55
Certified Information Systems Security Professional (CISSP)	54
Certified Information Security Manager (CISM)	43
Certified Public Accountant (CPA)	43
Licensed Professional Engineer	41

Hard Skills

	Active
Skill Name	Job Ads
Teaching/Training, School	5,204
Microsoft Excel	1,429
Microsoft Office	1,420
Spanish	894
Microsoft PowerPoint	759
Mathematics	701
Microsoft Word	563
Microsoft Outlook	537
Bilingual	515
English	451

Soft Skills

SOIT SKIIIS	
	Active Job
Skill Name	Ads
Communication (Verbal and written skills)	6,823
Cooperative/Team Player	4,221
Supervision/Management	2,112
Organization	1,968
Problem Solving	1,829
Interpersonal Relationships/Maintain Relationships	1,762
Self-Motivated/Ability to Work Independently/Self Leadership	1,538
Detail Oriented/Meticulous	1,320
Adaptability/Flexibility/Tolerance of Change and Uncertainty	1,310
Analytical	1,249

Job Titles

Lab Tibla	Active Job
Job Title	Ads
Asset Protection Specialist	442
Intern I - High School	171
Loss Prevention Officer	148
Regional Manager	126
English Teacher	114
Compliance Manager	91
Development Director	88
High School Teacher	69
Shop Manager	57
Spanish Teacher	54

Job Types

	Active Job
Туре	Ads
Full-Time	8,284
Part-Time	2,038
Permanent	656
Temporary (unspecified)	641
Remote	626
Temporary (long-term)	246
Temp-to-Hire	28
Temporary (short-term)	25
Remote Not Indicated	13,476

Programs

	Active Job
Program Name	Ads
Engineering	483
Business	382
Business Administration	296
Science	283
Biology	277
Economics	241
Education	236
Mathematics	214
Finance	213
Chemistry	190

Education Levels

	Active
	Job
Minimum Education Level	Ads
Bachelor's degree	5,418
High school diploma or equivalent	523
Associate's degree	512
Master's degree	486
Doctoral or professional degree	174
Unspecified/other	6,989

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.