

## **Education Report**

# Communication Sciences and Disorders, General

California

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## Definition of Communication Sciences and Disorders, General, CIP 51.0201

A program that focuses on the application of biomedical, psychological, and physical principles to the study of the scientific bases, development, and treatment of speech, language, hearing, and cognitive communication problems caused by disease, injury, or disability. Includes instruction in language science, hearing science, speech and voice science, biology of communication, behavioral linguistics, psychology, and applications to the development of diagnostic and rehabilitative strategies and technologies.

### **Awards**

The table below is a list of postsecondary awards in CIP 51.0201 that were granted by institutions located in California in the 2021 academic year.

Schools	Certs & 2yr Awards <sup>1</sup>	4yr Awards <sup>2</sup>	Post-Grad Awards <sup>3</sup>	Avg Net Price <sup>4</sup>
California State University- Northridge		181	50	\$8,708
California State University-Los Angeles		179	21	\$2,695
California State University- Fullerton		156	30	\$4,939
California State University- Fresno		125	47	\$6,336
California State University- Sacramento		129	32	\$7,778
San Francisco State University		58	41	\$13,641
California State University-East Bay		40	30	\$12,631
California State University-Chico		62		\$13,749
San Jose State University		55		\$14,603
University of the Pacific		21	30	\$21,311
California Baptist University		47		\$23,494
Chapman University			46	\$40,451
Biola University		43		\$29,123
California State University-San Marcos		16		\$14,296
San Diego State University			2	\$6,867
California State University-Long Beach				\$9,171
Total	0	1,112	329	

<sup>1.</sup> Undergraduate certificates and associate's degrees

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.

 $<sup>{\</sup>bf 2.\ Bachelor's\ degrees\ and\ post-baccalaure ates}$ 

<sup>3.</sup> Master's, post-master's, and doctorates

<sup>4.</sup> 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.

## Occupation Crosswalk

The below table lists all occupations linked with the program, Communication Sciences and Disorders, General, CIP 51.0201.

		Education and Training Requirements				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
25-1071	Health Specialties Teachers, Postsecondary	Doctoral or professional degree	Less than 5 years	None	1%	1%	1%	14%	83%
29-1127	Speech-Language Pathologists	Master's degree	None	Internship/residency	1%	1%	1%	10%	88%
29-1181	Audiologists	Doctoral or professional degree	None	None	1%	2%	1%	9%	87%

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 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 Speech-Language Pathologists (29-1127)

Assess and treat persons with speech, language, voice, and fluency disorders. May select alternative communication systems and teach their use. May perform research related to speech and language problems.

#### **Definition of Audiologists (29-1181)**

Assess and treat persons with hearing and related disorders. May fit hearing aids and provide auditory training. May perform research related to hearing problems.

## **Occupation Details**

As of 2022Q4, total employment for occupations linked to Communication Sciences and Disorders, General in California was 26,744. Over the past three years, linked occupations added 710 jobs in the region and are expected to need in aggregate approximately 17,569 newly trained workers over the next seven years.

Snapshot of Occupations Linked to Communication Sciences and Disorders, General in California<sup>1</sup>

				Cı	urrent			3-Year History		7-	Year Forecas	it	
soc	Occupation	Empl	Mean Ann Wages <sup>2</sup>	LQ	Unempl	Unempl Rate	Online Job Ads³	Ann %	Total Demand	Exits	Transfers	Empl Growth	Avg Ann Growth %
29- 1127	Speech-Language Pathologists	16,894	\$108,700	0.87	208	1.2%	3,916	1.3%	10,372	3,632	4,151	2,589	2.1%
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%
29- 1181	Audiologists	1,413	\$112,000	0.84	32	2.2%	94	0.1%	538	238	197	103	1.0%
	Total - Linked Occupations	26,744	\$120,100	0.61	396	1.5%	6,177	0.9%	17,569	6,782	6,806	3,981	2.0%
	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®

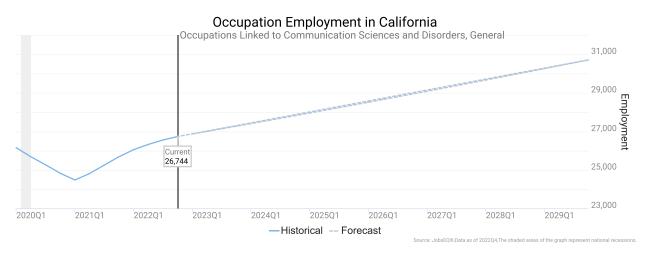
Data as of 2022Q4 unless noted otherwise

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

<sup>3.</sup> Data represent found online add 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.

## **Employment by Industry**

The table illustrates the industries in California which most employ occupations linked to Communication Sciences and Disorders, General. The single industry most employing these occupations in the region is Elementary and Secondary Schools, NAICS 6111. This industry employs 6,797 workers in the linked occupations—employment which is expected to increase by 833 jobs over the next ten years; furthermore, 4,270 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 Communication Sciences and Disorders, General in California

		Current			10-Year Demand		
NAICS Code	Industry Title	% of Occ Empl	Empl	Exits	Transfers	Empl Growth	Total Demand
	<u>'</u>	•	•			•	
6111	Elementary and Secondary Schools	25.4%	6,797	1,996	2,274	833	5,103
6113	Colleges, Universities, and Professional Schools	24.5%	6,556	3,244	2,746	1,604	7,594
6213	Offices of Other Health Practitioners	20.2%	5,394	1,739	1,959	2,013	5,712
6221	General Medical and Surgical Hospitals	7.7%	2,059	661	697	276	1,634
6112	Junior Colleges	4.8%	1,282	607	513	165	1,285
6241	Individual and Family Services	3.4%	899	294	334	354	981
6214	Outpatient Care Centers	2.0%	541	181	179	121	481
6231	Nursing Care Facilities (Skilled Nursing Facilities)	1.9%	497	142	162	26	330
6211	Offices of Physicians	1.7%	464	124	111	45	280
6216	Home Health Care Services	1.5%	394	123	140	102	365
6223	Specialty (except Psychiatric and Substance Abuse) Hospitals	1.3%	354	110	124	85	318
5613	Employment Services	1.0%	278	82	93	34	209
4561	Health and Personal Care Retailers	0.7%	189	44	36	3	83
6117	Educational Support Services	0.7%	177	57	65	63	184
6115	Technical and Trade Schools	0.6%	168	83	70	41	195
	All Others	2.6%	694	209	227	101	538

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 Communication Sciences and Disorders, General. Employment is shown by place of work.

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







## Top Counties with Employment Linked to Communication Sciences and Disorders, General, 2022Q4

Region	Employment
Los Angeles County, California	7,448
San Diego County, California	2,747
Orange County, California	2,401
Santa Clara County, California	1,537
San Bernardino County, California	1,133
Riverside County, California	1,114
Alameda County, California	1,081
San Francisco County, California	985
Sacramento County, California	834
Fresno County, California	650

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.

#### Summary<sup>1</sup>

Demographics         Fopulation (ACS)         ————————————————————————————————————		Percent		Value	
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 Age²         —         —         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 Annual Average Growth <sup>4</sup> 0.3%         0.6%         108,479         1,940,990           People per Square Mile         —         —         250.4         94.3		California	USA	California	USA
Male         49.7%         49.2%         19,562,882         160,818,530           Female         50.3%         50.8%         19,783,141         165,750,778           Median Age²         —         —         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 Annual Average Growth <sup>4</sup> 0.3%         0.6%         108,479         1,940,990           People per Square Mile         —         —         250.4         94.3	Demographics				
Female         50.3%         50.8%         19,783,141         165,750,778           Median Age²         —         —         —         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 Annual Average Growth <sup>4</sup> 0.3%         0.6%         108,479         1,940,990           People per Square Mile         —         —         250.4         94.3	Population (ACS)	_	_	39,346,023	326,569,308
Median Age²         —         —         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) <sup>4</sup> —         —         —         39,029,342         333,287,557           Population Annual Average Growth <sup>4</sup> 0.3%         0.6%         108,479         1,940,990           People per Square Mile         —         —         —         250.4         94.3	Male	49.7%	49.2%	19,562,882	160,818,530
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 Growth4         0.3%         0.6%         108,479         1,940,990           People per Square Mile         —         —         —         250.4         94.3	Female	50.3%	50.8%	19,783,141	165,750,778
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 Growth4       0.3%       0.6%       108,479       1,940,990         People per Square Mile       —       —       250.4       94.3	Median Age <sup>2</sup>	_	_	36.7	38.2
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) <sup>4</sup> -       -       39,029,342       333,287,557         Population Annual Average Growth <sup>4</sup> 0.3%       0.6%       108,479       1,940,990         People per Square Mile       -       -       -       250.4       94.3	Under 18 Years	22.8%	22.4%	8,956,641	73,296,738
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) <sup>4</sup> -       -       39,029,342       333,287,557         Population Annual Average Growth <sup>4</sup> 0.3%       0.6%       108,479       1,940,990         People per Square Mile       -       -       250.4       94.3	18 to 24 Years	9.5%	9.3%	3,724,239	30,435,736
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) <sup>4</sup> 39,029,342 333,287,557 Population Annual Average Growth <sup>4</sup> 0.3% 0.6% 108,479 1,940,990 People per Square Mile 250.4 94.3	25 to 34 Years	15.3%	13.9%	6,007,913	45,485,165
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) <sup>4</sup> -       -       39,029,342       333,287,557         Population Annual Average Growth <sup>4</sup> 0.3%       0.6%       108,479       1,940,990         People per Square Mile       -       -       250.4       94.3	35 to 44 Years	13.3%	12.7%	5,233,903	41,346,677
65 to 74 Years       8.3%       9.4%       3,270,380       30,547,950         Population Growth         Population (Pop Estimates) <sup>4</sup> -       -       39,029,342       333,287,557         Population Annual Average Growth <sup>4</sup> 0.3%       0.6%       108,479       1,940,990         People per Square Mile       -       -       250.4       94.3	45 to 54 Years	12.8%	12.7%	5,039,155	41,540,736
Population Growth           Population (Pop Estimates) <sup>4</sup> -         -         39,029,342         333,287,557           Population Annual Average Growth <sup>4</sup> 0.3%         0.6%         108,479         1,940,990           People per Square Mile         -         -         250.4         94.3	55 to 64 Years	12.0%	12.9%	4,739,675	42,101,439
Population (Pop Estimates) <sup>4</sup> -         -         39,029,342         333,287,557           Population Annual Average Growth <sup>4</sup> 0.3%         0.6%         108,479         1,940,990           People per Square Mile         -         -         -         250.4         94.3	65 to 74 Years	8.3%	9.4%	3,270,380	30,547,950
Population Annual Average Growth <sup>4</sup> 0.3%         0.6%         108,479         1,940,990           People per Square Mile         -         -         -         250.4         94.3	Population Growth				
People per Square Mile         -         -         250.4         94.3	Population (Pop Estimates) <sup>4</sup>	_	_	39,029,342	333,287,557
	Population Annual Average Growth <sup>4</sup>	0.3%	0.6%	108,479	1,940,990
Educational Attainment Acc 25 CA	People per Square Mile	_	_	250.4	94.3
Educational Attainment, Age 25-64	Educational Attainment, Age 25-64				
No High School Diploma 15.2% 10.5% 3,199,850 17,929,220	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	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	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	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	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	Postgraduate Degree	12.9%	12.7%	2,706,412	21,630,870
Social	Social				
Poverty Level (of all people) 12.6% 12.8% 4,853,434 40,910,326	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	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	Enrolled in Grade 12 (% of total population)	1.5%	1.3%	576,714	4,358,865
Disconnected Youth <sup>3</sup> 1.9% 2.5% 38,451 433,164	Disconnected Youth <sup>3</sup>	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	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	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	Speak English Less Than Very Well (population 5 yrs and over)	17.4%	8.2%	6,432,102	25,312,024

Source: JobsEQ®

<sup>1.</sup> American Community Survey 2016-2020, unless noted otherwise

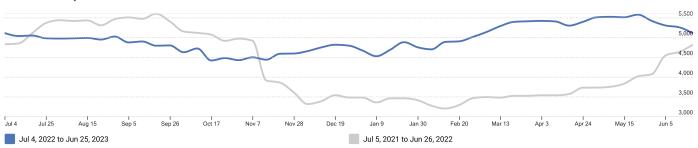
<sup>2.</sup> Median values for certain aggregate regions (such as MSAs) may be estimated as the weighted averages of the median values from the composing counties.

<sup>3.</sup> 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.

<sup>4.</sup> 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 Job	
soc	Occupation	Ads	
29- 1127.0	0 Speech-Language Pathologists	13,529	
25-1071.0	0 Health Specialties Teachers, Postsecondary	6,202	
29-1181.0	0 Audiologists	474	

#### Locations

	Active
	Job
Location	Ads
Los Angeles, California	785
University of Southern California (USC)	619
University of California Davis	300
San Francisco, California	278
University of California San Francisco	269
University of California Los Angeles	227
San Diego, California	196
Sacramento, California	191
Pomona, CA 91766	168
University of California Irvine (UCI)	118

#### **Employers**

	Active Job
Employer Name	Ads
Procare Therapy	2,234
SunBelt Staffing	956
Los Angeles, California	831
The Stepping Stones Group	707
University of Southern California	597
Therapy Travelers	308
Western Dental Services, Inc	299
Fusion Medical Staffing	293
Kaiser Permanente	286
San Francisco, California	266

#### Certifications

	Active Job	
Certificate Name	Ads	
Certification in Cardiopulmonary Resuscitation (CPR)	1,137	
Basic Life Support (BLS)	1,091	
Registered Dental Assistant (RDA)	328	
Driver's License	288	
Certificate of Clinical Competence in Speech-Language Pathology (CCC-SLP)	242	
Registered Nurse (RN)	172	
Certified Dental Assistant (CDA)	90	
Certified in Internal Medicine	72	
First Aid Certification	70	
Doctor of Veterinary Medicine (DVM)	63	

#### **Hard Skills**

	Active Job
Skill Name	Ads
Teaching/Training, School	2,784
Pediatrics	1,415
Bilingual	665
Spanish	487
Working With Children	382
Microsoft Office	375
Home Health Care	356
Clinical Research	349
Microsoft Excel	337
Ability to Lift 51-100 lbs.	327

#### **Soft Skills**

33.1.58.115	
	Active
	Job
Skill Name	Ads
Communication (Verbal and written skills)	7,310
Cooperative/Team Player	4,121
Organization	1,486
Interpersonal Relationships/Maintain Relationships	1,314
Adaptability/Flexibility/Tolerance of Change and Uncertainty	1,238
Self-Motivated/Ability to Work Independently/Self Leadership	1,014
Critical Thinking	864
Problem Solving	831
Supervision/Management	816
Confidentiality/Information Sensitivity	757

#### Job Titles

	Active Job
Job Title	Ads
Speech Language Pathologist	1,386
Speech Language Pathologist (SLP)	983
Schools - Speech Language Pathologist	914
Speech Therapist	299
SLP	298
Dental Assistant	296
School Speech Language Pathologist (SLP)	256
Speech Therapist (SLP) for Home Health	236
Speech Language Pathologist - SLP - CA	148
Speech Pathologist	138

#### Job Types

	Active Job
Туре	Ads
Full-Time	10,708
Part-Time	3,835
Temporary (unspecified)	1,594
Remote	1,119
Permanent	1,063
Temporary (short-term)	256
Temporary (long-term)	100
Temp-to-Hire	8
Remote Not Indicated	19,086

#### **Programs**

	Active Job
Program Name	Ads
Speech-Language Pathology	4,547
Communication Disorders	831
Medicine	358
Nursing	219
Audiology	167
Speech	142
Public Health	141
Education	128
Biology	114
Science	79

#### **Education Levels**

Minimum Education Level	Active Job Ads
Master's degree	6,156
Doctoral or professional degree	1,482
Bachelor's degree	1,400
Associate's degree	483
Unspecified/other	10,684

## 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

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