

NEWS RELEASE



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OCCUPATIONAL EMPLOYMENT AND WAGES IN SAN DIEGO-CARLSBAD-SAN MARCOS, MAY 2011

Workers in the San Diego-Carlsbad-San Marcos Metropolitan Statistical Area had an average (mean) hourly wage of \$24.21 in May 2011, about 11 percent above the nationwide average of \$21.74, according to the U.S. Bureau of Labor Statistics. Regional Commissioner Richard J. Holden noted that, after testing for statistical significance, wages in the local area were significantly higher than their respective national averages in 17 of the 22 major occupational groups, including healthcare practitioners and technical, management, and legal. No other group had an hourly wage significantly lower than its respective national average.

When compared to the nationwide distribution, local employment was more highly concentrated in 8 of the 22 occupational groups, including food preparation and serving related; life, physical, and social science; and architecture and engineering. Conversely, 10 groups had employment shares significantly below their national representation, including transportation and material moving, production, and healthcare practitioners and technical. (See table A and box note at end of release.)

	Percent of total employment			Mean hourly wage			
Major occupational group	United States	San Diego		United States	San Diego	Percent difference ¹	
Total, all occupations	100.0%	100.0%		\$21.74	\$24.21 *	11	
Management	4.8	5.7	*	51.64	56.63 *	10	
Business and financial operations	4.8	5.7	*	33.05	34.03 *	3	
Computer and mathematical	2.7	3.3	*	37.85	40.83 *	8	
Architecture and engineering	1.8	2.9	*	37.08	40.19 *	8	
Life, physical, and social science	0.8	2.0	*	32.44	36.06 *	11	
Community and social service	1.5	1.2	*	21.07	23.86 *	13	
Legal	0.8	0.8		47.30	51.89 *	10	
Education, training, and library	6.6	6.0	*	24.46	27.19 *	11	
Arts, design, entertainment, sports, and media	1.3	1.4		25.89	25.87	0	
Healthcare practitioners and technical	5.9	4.9	*	34.97	41.13 *	18	
Healthcare support	3.1	2.6	*	13.16	14.67 *	11	
Protective service	2.5	2.5		20.54	24.08 *	17	
Food preparation and serving related	8.7	10.1	*	10.30	10.47	2	
Building and grounds cleaning and maintenance	3.3	3.4	*	12.29	12.85 *	5	
Personal care and service	2.8	2.8		11.84	12.31 *	4	
Sales and related	10.6	10.0	*	18.04	18.79 *	4	
Office and administrative support	16.7	17.6	*	16.40	17.67 *	8	
Farming, fishing, and forestry	0.3	0.2	*	11.68	12.02	3	
Construction and extraction	3.9	3.6	*	21.46	24.96 *	16	
Installation, maintenance, and repair	3.9	3.5	*	20.86	22.17 *	6	
Production	6.5	4.9	*	16.45	16.60	1	
Transportation and material moving	6.7		*	15.96	15.37	-4	

Table A. Occupational employment and wages by major occupational group, United States and the SanDiego-Carlsbad-San Marcos Metropolitan Statistical Area, and measures of statistical significance, May2011

* The percent share of employment or mean hourly wage for this area is significantly different from the national average of all areas at the 90-percent confidence level.

¹ A positive percent difference measures how much the mean wage in San Diego is above the national mean wage, while a negative difference reflects a lower wage.

One occupational group—architecture and engineering—was chosen to illustrate the diversity of data available for any of the 22 major occupational categories. San Diego-Carlsbad-San Marcos had 35,630 jobs in architecture and engineering, accounting for 2.9 percent of local area employment, significantly higher than the 1.8-percent share nationally. The average hourly wage for this occupational group locally was \$40.19, measurably above the national wage of \$37.08.

With employment of 3,710, civil engineers was the largest occupation within the architecture and engineering group, followed by electronics engineers, except computer (3,650) and electrical and electronics engineering technicians (3,120). Among the higher paying jobs were nuclear engineers and computer hardware engineers, with mean hourly wages of \$53.05 and \$49.14, respectively. At the lower end of the wage scale were mechanical engineering technicians (\$23.16) and industrial engineering technicians (\$24.53). (Detailed occupational data for architecture and engineering are presented in table 1; for a complete listing of detailed occupations available go to www.bls.gov/oes/current/oes 41740.htm)

Location quotients allow us to explore the occupational make-up of a metropolitan area by comparing the composition of jobs in an area relative to the national average. (See table 1.) For example, a location quotient of 2.0 indicates that an occupation accounts for twice the share of employment in the area than it does nationally. In the San Diego-Carlsbad-San Marcos Metropolitan Statistical Area, above average concentrations of employment were found in many of the occupations within the architecture and engineering group. For instance, computer hardware engineers were employed at 3.4 times the national rate in San Diego, and electronics engineers, except computer, at 2.8 times the U.S. average. On the other hand, mechanical drafters had a location quotient of 1.0 in San Diego, indicating that this particular occupation's local and national employment shares were similar.

These statistics are from the Occupational Employment Statistics (OES) survey, a federal-state cooperative program between BLS and State Workforce Agencies, in this case, the California Employment Development Department. The OES survey provides estimates of employment and hourly and annual wages for wage and salary workers in 22 major occupational groups and nearly 800 detailed occupations for the nation, states, metropolitan statistical areas, metropolitan divisions, and nonmetropolitan areas.

OES wage and employment data for the 22 major occupational groups in the San Diego Metropolitan Statistical Area were compared to their respective national averages based on statistical significance testing. Only those occupations with wages or employment shares above or below the national wage or share after testing for significance at the 90-percent confidence level meet the criteria.

NOTE: A value that is statistically different from another does not necessarily mean that the difference has economic or practical significance. Statistical significance is concerned with the ability to make confident statements about a universe based on a sample. It is entirely possible that a large difference between two values is not significantly different statistically, while a small difference is, since both the size and heterogeneity of the sample affect the relative error of the data being tested.

Technical Note

The Occupational Employment Statistics (OES) survey is a semiannual mail survey measuring occupational employment and wage rates for wage and salary workers in nonfarm establishments in the United States. Guam, Puerto Rico, and the Virgin Islands also are surveyed, but their data are not included in the national estimates. OES estimates are constructed from a sample of about 1.2 million establishments. Forms are mailed to approximately 200,000 establishments in May and November of each year for a 3-year period. The nationwide response rate for the May 2011 survey was 77.3 percent based on establishments and 73.3 percent based on employment. May 2011 estimates are based on responses from six semiannual panels collected over a 3-year period: May 2011, November 2010, May 2010, November 2009, May 2009, and November 2008. The sample in the San Diego-Carlsbad-San Marcos Metropolitan Statistical Area included 6,586 establishments with a response rate of 75 percent. For more information about OES concepts and methodology, go to www.bls.gov/news.release/ocwage.tn.htm.

The May 2011 OES estimates mark the first set of estimates based in part on data collected using the 2010 Standard Occupational Classification (SOC) system. Nearly all the occupations in this release are 2010 SOC occupations; however, some are not. The May 2012 OES data will reflect the full set of detailed occupations in the 2010 SOC. For a list of all occupations, including 2010 SOC occupations, and how data collected on two structures were combined, see the OES Frequently Asked Questions online at www.bls.gov/oes/oes_ques.htm#Ques41.

Area definitions

The substate area data published in this release reflect the standards and definitions established by the U.S. Office of Management and Budget.

The San Diego-Carlsbad-San Marcos, Calif. Metropolitan Statistical Area includes San Diego County.

Additional information

OES data are available on our regional web page at www.bls.gov/ro9/home.htm. If you have additional questions, contact the San Francisco Economic Analysis and Information Unit at (415) 625-2270. Information in this release will be made available to sensory impaired individuals upon request. Voice phone: (202) 691-5200; TDD message referral phone number: 1 (800) 877-8339.

Table 1. Employment and wage data from the Occupational Employment Statistics survey, by occupation, San Diego-Carlsbad-San Marcos Metropolitan Statistical Area, May 2011

	Employr	nent	Mean Wages	
Occupation ^[1]	Level ^[2]	Location quotient ^[3] Hourly		Annual ^[4]
Architecture and engineering occupations	35,630	1.6	\$40.19	\$83,590
Architects, except landscape and naval	730	0.9	43.41	90,280
Landscape architects	350	2.3	41.75	86,840
Cartographers and photogrammetrists	210	1.9	27.54	57,290
Surveyors	560	1.4	38.72	80,550
Aerospace engineers	1,510	2.0	45.67	94,990
Biomedical engineers	480	3.0	46.22	96,150
Chemical engineers	320	1.2	41.58	86,490
Civil engineers	3,710	1.5	41.48	86,270
Computer hardware engineers	2,370	3.4	49.14	102,210
Electrical engineers	1,940	1.3	47.72	99,270
Electronics engineers, except computer	3,650	2.8	49.13	102,200
Environmental engineers	850	1.8	38.27	79,600
Health and safety engineers, except mining safety engineers and inspectors	190	0.8	42.24	87,860
Industrial engineers	1,650	0.8	39.83	82,850
Marine engineers and naval architects	30	0.6	37.57	78,140
Materials engineers	180	0.8	46.06	95,810
Mechanical engineers	3,090	1.4	42.69	88,790
Nuclear engineers	320	1.8	53.05	110,350
Engineers, all other	3,240	2.7	47.74	99,300
Architectural and civil drafters	1,170	1.4	26.84	55,820
Electrical and electronics drafters	300	1.1	25.77	53,610
Mechanical drafters	610	1.0	25.94	53,960
Drafters, all other	130	0.8	23.21	48,270
Aerospace engineering and operations technicians	190	2.1	29.99	62,370
Civil engineering technicians	920	1.3	29.37	61,090
Electrical and electronics engineering technicians	3,120	2.2	29.78	61,940
Electro-mechanical technicians	550	3.5	27.75	57,730
Environmental engineering technicians	320	1.7	28.58	59,450
Industrial engineering technicians	670	1.1	24.53	51,020
Mechanical engineering technicians	390	0.9	23.16	48,180
Engineering technicians, except drafters, all other	1,450	2.3	30.67	63,800
Surveying and mapping technicians	340	0.7	28.50	59,270

[1] For a complete listing of all detailed occupations in San Diego-Carlsbad-San Marcos, see www.bls.gov/oes/current/oes_41740.htm.

[2] Estimates for detailed occupations do not sum to the totals because the totals include occupations not shown separately. Estimates do not include self-employed workers.

[3] The location quotient is the ratio of the area concentration of occupational employment to the national average concentration. A location quotient greater than one indicates the occupation has a higher share of employment than average, and a location quotient less than one indicates the occupation is less prevalent in the area than average.

[4] Annual wages have been calculated by multiplying the hourly mean wage by a 'year-round, full-time' hours figure of 2,080 hours; for those occupations where there is not an hourly mean wage published, the annual wage has been directly calculated from the reported survey data.