

## Program Endorsement Brief: 0709.00/World Wide Web Administration Web Creator; Web Development Management

Los Angeles/Orange County Center of Excellence, March 2019

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### Summary:

The Los Angeles/Orange County Center of Excellence for Labor Market Research (COE) prepared this report to provide regional labor market supply and demand data related to web development. This report is intended to help determine whether there is demand in the local labor market that is not being met by the supply from community college programs that align with relevant occupations.

The following summarizes key findings from this data brief:

- The number of jobs for web developers is projected to increase by 5% through 2022. Approximately 800 job openings will be available annually due to new job growth and replacement need.
- Over the past 12 months, there have been 6,676 online job postings related to web development in Los Angeles and Orange Counties.
- Four other related program recommendation requests were received in 2018 from regional community colleges.
- Eleven colleges in the region have existing web-related programs.
- Between 2015 and 2018, community colleges in the region conferred an average of 58 awards annually (associate degrees and certificates) in related training programs.

**Occupational Demand**—In Los Angeles/Orange County, the number of jobs for web developers is projected to increase by 5%. There will be approximately 800 job openings per year through 2022 (Exhibit 1).

**Exhibit 1: Occupational demand in Los Angeles and Orange Counties<sup>1</sup>**

Geography	2017 Jobs	2022 Jobs	2017-2022 Change	2017-2022 % Change	Annual Openings
Los Angeles	7,091	7,461	370	5%	574
Orange	2,847	2,976	129	5%	226
<b>Total</b>	<b>9,938</b>	<b>10,437</b>	<b>499</b>	<b>5%</b>	<b>800</b>

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<sup>1</sup> Five-year change represents new job additions to the workforce. Annual openings include new jobs and replacement jobs that result from retirements and separations.

**Wages**—Entry-level and median wages for web developers in the region are \$17.48 and \$27.50, respectively. Entry-level wages for web developers are higher than the MIT Living hourly wage for one adult in the region (\$13.54 in Los Angeles County and \$15.31 in Orange County). Regional wages are below state’s averages for this occupation.

**Job Postings**—There were 6,676 online job postings related to web designers listed in the past 12 months. The majority of job postings are for user experience (UX)/user interface (UI) designers, front end developers, web developers, and web designers. Top specialized software skills include: JavaScript, HTML5, Hypertext Preprocessor (PHP), jQuery, and Photoshop. The top three employers, by number of job postings, in the region are: SMCI, P. Murphy & Associates, and University of California.

**Educational Attainment**—The BLS lists an associate degree as the typical entry-level education for this occupation. The national-level educational attainment data indicates 27% of workers in the field have completed some college or an associate degree. In Los Angeles/Orange County, 68% of **middle-skill** (those requiring less than a bachelor’s degree but higher than a high school diploma) job postings request high school diploma or vocational training.

**Community College Supply**—Appendix A shows the annual and three-year average number of awards conferred by community colleges in Website Design and Development (0614.30) and World Wide Web Administration (0709.00). The colleges with the most completions in the region are: Saddleback, Santiago Canyon and West LA. In 2018, there were four other related program recommendation requests from regional community colleges.

**Appendix A: Regional community college awards (certificates and degrees), 2015-2018**

TOP Code	Program	College	2015-16 Awards	2016-17 Awards	2017-18 Awards	3-Year Award Average
0614.30	Website Design and Development	Coastline	-	1	-	1
		El Camino	1	-	-	1
		Irvine	14	8	2	8
		LA Pierce	2	2	-	2
		Mt. San Antonio	-	-	9	9
		Saddleback	11	5	4	7
		Santa Ana	-	1	1	1
		Santiago Canyon	9	12	9	10
<b>Subtotal/Average</b>			<b>37</b>	<b>29</b>	<b>25</b>	<b>30</b>
0709.00	World Wide Web Administration	Glendale	3	3	9	5
		LA Pierce	1	5	5	4
		Long Beach	2	5	4	4
		Saddleback	-	5	-	5
		West LA	9	8	24	14
<b>Subtotal/Average</b>			<b>15</b>	<b>26</b>	<b>42</b>	<b>28</b>
<b>Total/Average</b>			<b>52</b>	<b>55</b>	<b>67</b>	<b>58</b>

## Appendix B: Occupational demand and wage data by county

### Exhibit 3. Los Angeles County

Occupation (SOC)	2017 Jobs	2022 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Entry-Level Hourly Earnings	Median Hourly Earnings	Experienced Hourly Earnings
Web Developers (15-1134)	7,091	7,461	370	5%	574	\$17.66	\$27.24	\$58.96

### Exhibit 4. Orange County

Occupation (SOC)	2017 Jobs	2022 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Entry-Level Hourly Earnings	Median Hourly Earnings	Experienced Hourly Earnings
Web Developers (15-1134)	2,847	2,976	129	5%	226	\$16.93	\$28.06	\$56.31

### Exhibit 5. Los Angeles and Orange Counties

Occupation (SOC)	2017 Jobs	2022 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Entry-Level Hourly Earnings	Median Hourly Earnings	Experienced Hourly Earnings
Web Developers (15-1134)	9,938	10,437	499	5%	800	\$17.48	\$27.50	\$58.99

## Appendix C: Sources

- O\*NET Online
- Labor Insight/Jobs (Burning Glass)
- Economic Modeling Specialists, International (EMSI)
- Employment Development Department, Labor Market Information Division, OES
- Employment Development Department, Unemployment Insurance Dataset
- Living Insight Center for Community Economic Development
- California Community Colleges Chancellor's Office Management Information Systems (MIS)
- MIT Living Wage

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