

Program Endorsement Brief: 0936.00/Printing and Lithography Surface Design

Los Angeles/Orange County Center of Excellence, March 2019

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 surface design. 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:

- Jobs related to surface design are increasing by less than 1% over the next five years, and more than 2,400 job openings will be available annually due to replacement need.
- Over the past 12 months, there were 137 online job postings related to surface design in Los Angeles and Orange Counties.
- No other printing and lithograph program recommendation requests were received in 2018 from regional community colleges, and six graphic art and design program requests were received.
- Sixteen colleges in the region have existing programs closely related to graphic design, and two colleges in the region have existing programs in printing and lithography.
- Between 2014 and 2017, community colleges in the region conferred an average of 201 awards annually (associate degrees and certificates) in related training programs.

Occupational Demand—In Los Angeles/Orange County, the number of jobs for occupations related to surface design are projected to increase by less than 1%. There will be more than 2,400 job openings per year through 2022 (Exhibit 1).

Exhibit 1: Occupational demand in Los Angeles and Orange Counties¹

Geography	2017 Jobs	2022 Jobs	2017-2022 Change	2017-2022 % Change	Annual Openings
Los Angeles	21,733	21,728	(5)	0%	1,987
Orange	5,195	5,257	62	1%	481
Total	26,928	26,985	57	0%	2,466

Wages—Entry-level hourly wages for related occupations in the region are between \$14.82 and \$14.90. Entry-level wages for surface design-related occupations are higher than the MIT Living

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

hourly wage for one adult in Los Angeles County (\$13.54), but lower than the living hourly wage in Orange County (\$15.31). Experienced workers earn between \$40.05 and \$83.16, which is higher than the living wage. Regional wages are below the average statewide wage for this occupation.

Job Postings—There were 137 online job postings related to surface design listed in the past 12 months. The majority of job postings are for graphic designer, designer, textile designer, CMF designer and surface designer. Top software skills are: Adobe Photoshop, Illustrator and InDesign. Top employers, by number of job postings, in the region are: Gibson Overseas Incorporated, Ruggable and Tesla.

Educational Attainment—The BLS lists a Bachelor’s degree as the typical entry-level education for these surface design-related occupations (art director and graphic designer). The national-level educational attainment data indicates between 27% and 30% of workers in the field have completed some college or an associate degree. In Los Angeles/Orange County, 85% of job postings request a Bachelor’s degree.

Community College Supply—Appendix A shows the three-year average number of awards conferred by community colleges in the related TOP codes: Printing and Lithography (0936.00) and Graphic Art and Design (1030.00). The colleges with the most graphic art and design completions in the region are: Santa Monica, Golden West and Mt. San Antonio. In 2018, there were no other printing and lithography program recommendation requests from regional community colleges, and six graphic art and design program recommendation requests.

Appendix A: Regional community college awards (certificates and degrees), 2014-2017

TOP Code	Program	College	2014-15 Awards	2015-16 Awards	2016-2017 Awards	3-Year Award Average
0936.00	Printing and Lithography	Fullerton	8	14	12	11
		Pasadena	7	2	3	4
Subtotal/Average			15	16	15	15
1030.00	Graphic Art and Design	Cerritos	2	10	6	6
		East LA	12	13	12	12
		El Camino	1	3	-	1
		Fullerton	9	5	16	10
		Glendale	11	7	14	11
		Golden West	39	31	32	34
		Irvine	1	1	2	1
		LA City	6	6	5	6
		LA Pierce	4	3	10	6
		LA Valley	2	4	3	3
		Mt San Antonio	29	19	21	23
		Pasadena	8	3	10	7
		Saddleback	22	16	17	18

	Santa Ana	2	1	-	1
	Santa Monica	46	34	30	37
	Santiago Canyon	13	13	3	10
	Subtotal/Average	207	169	181	186
	Total/Average	222	185	196	201

Appendix B: Occupational demand and wage data by county

Exhibit 2. 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
Graphic Designers (27-1024)	16,067	15,973	(94)	(1%)	1,501	\$14.81	\$21.21	\$39.72
Art Directors (27-1011)	5,666	5,755	89	2%	486	\$14.94	\$33.14	\$83.98
Total	21,733	21,728	(5)	0%	1,987			

Exhibit 3. 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
Graphic Designers (27-1024)	4,240	4,273	33	1%	399	\$15.33	\$21.55	\$37.61
Art Directors (27-1011)	955	984	29	3%	82	\$14.20	\$25.72	\$70.09
Total	5,195	5,257	62	1%	481			

Exhibit 4. 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
Graphic Designers (27-1024)	20,307	20,246	(61)	(0%)	1,899	\$14.90	\$21.32	\$40.05
Art Directors (27-1011)	6,621	6,739	118	2%	567	\$14.82	\$32.18	\$83.16
Total	26,928	26,985	57	0%	2,466			

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
- Chancellor's Office Curriculum Inventory (COCI 2.0)

For more information, please contact:

Lori Sanchez, Director
Center of Excellence, Los Angeles/Orange County Region
lsanchez144@mtsac.edu

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