

Program Endorsement Brief: 1306.00/Nutrition, Food, and Culinary Arts *Baking and Pastry*

Los Angeles/Orange County Center of Excellence, February 2019

Summary:

The Orange County Center of Excellence for Labor Market Research (COE) prepared this report to provide regional labor market supply and demand data related to nutrition, food, and culinary arts, specifically, **baking and pastry**. 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

- Baking and pastry related occupations are projected to **increase by 9% through 2022**. Nearly **19,946 job openings** will be available annually due to new job growth and replacement need.
- In the past 12 months, there were **836 online job postings** for baking and pastry-related occupations in Los Angeles and Orange Counties.
- **Two related program recommendation requests under the same TOP Code** were received between January and December 2018. One request was specifically focused on baking and pastry.
- Between 2014 and 2017, community colleges in the region conferred an average of **47 awards annually** (associate degrees and certificates) in related training programs under the same TOP Code.

Occupational Demand –Exhibit 1 shows the five year occupational demand projections for baking and pastry-related occupations. In Los Angeles/Orange County, the number of jobs related to baking and pastry is projected to increase by 9% through 2022. There will be nearly 19,950 job openings per year through 2022.

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	95,446	103,632	8,186	9%	14,811
Orange	32,847	35,804	2,957	9%	5,135
Total	128,293	139,437	11,144	9%	19,946

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.

Wages—Entry-level and median hourly wages for baking and pastry-related occupations are \$10.80 and \$14.51, respectively. Entry-level wages for baking and pastry-related occupations are lower than the MIT Living hourly wage estimate for one adult in the region (\$13.51 in Los Angeles County and \$15.31 in Orange County). Experienced workers earn between \$17.69 and \$36.61, which is higher than the living wage estimate. Regional average wages are below the average statewide wage of \$16.72 for these occupations. Wage information, by county, is included in Appendix A.

Job Postings—In order to identify job postings closely related to baking and pastry, the following keywords/search terms were used: bak* and pastry. There were 836 online job postings related to baking and pastry listed in the past 12 months. The highest number of job postings are for pastry cook, chef, and baker. Top specialized skills are: cooking, food preparation, and food safety. The top three employers, by number of job postings, in the region are: Marriott International Incorporated, Whole Foods Market, Inc., and Susiecakes.

Educational Attainment—The Bureau of Labor Statistics (BLS) lists no formal educational credential or high school diploma or equivalent as the typical entry-level education required for these occupations. The national-level educational attainment data indicates that between 23.9% and 40.6% of workers in the field have completed some college or an associate’s degree. In Los Angeles/Orange County, 14% of job postings request a high school diploma and 6% request an associate’s degree; however, 81% of postings did not include a specified level of education.

Community College Supply—Exhibit 2 shows the three-year average number of awards conferred by community colleges in the related TOP code: Nutrition, Foods, and Culinary Arts (1306.00). The colleges/programs with the most completions in the region are: Mt. San Antonio and Saddleback. Though the other colleges listed in the table below have programs with the same TOP code, none of those programs currently have a specific emphasis on preparing students for baking and pastry occupations. Between January and December 2018, there were two other related program recommendation requests from regional community colleges; one of these requests had a specific emphasis on baking and pastry.

Exhibit 2: 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
1306.00	Nutrition, Foods, and Culinary Arts	Fullerton	0	0	2	1
		Glendale	0	0	19	6
		LA Mission	0	2	2	1
		Mt San Antonio	21	16	10	16
		Orange Coast	7	2	16	8
		Saddleback	9	13	17	13
		Santa Ana	2	3	0	2
		Santa Monica	0	0	1	0
Total/Average			39	36	67	47

Appendix A: 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
Food Service Managers (11-9051)	14,958	15,573	615	4%	1,758	\$11.08	\$15.53	\$32.96
Chefs and Head Cooks (35-1011)	5,942	6,388	446	8%	842	\$11.15	\$19.87	\$35.64
First-Line Supervisors of Food Preparation and Serving Workers (35-1012)	25,720	28,601	2,881	11%	4,343	\$11.00	\$14.61	\$26.34
Cooks, Restaurant (35-2014)	41,190	45,370	4,180	10%	6,784	\$10.50	\$13.03	\$17.78
Bakers (51-3011)	7,636	7,699	63	1%	1,085	\$10.50	\$12.19	\$17.58
Total	95,446	103,632	8,186	9%	14,811			

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
Food Service Managers (11-9051)	4,885	5,120	235	5%	583	\$11.52	\$20.71	\$41.26
Chefs and Head Cooks (35-1011)	2,585	2,738	153	6%	356	\$13.96	\$21.55	\$37.98
First-Line Supervisors of Food Preparation and Serving Workers (35-1012)	8,416	9,501	1,085	13%	1,461	\$11.16	\$15.01	\$28.37
Cooks, Restaurant (35-2014)	13,540	14,713	1,173	9%	2,179	\$11.00	\$14.00	\$18.95
Bakers (51-3011)	3,421	3,731	310	9%	556	\$10.50	\$11.80	\$17.67
Total	32,847	35,804	2,957	9%	5,135			

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
Food Service Managers (11-9051)	19,843	20,694	851	4%	2,341	\$11.15	\$16.48	\$36.10
Chefs and Head Cooks (35-1011)	8,527	9,127	600	7%	1,198	\$11.38	\$20.18	\$36.61
First-Line Supervisors of Food Preparation and Serving Workers (35-1012)	34,136	38,102	3,966	12%	5,803	\$11.03	\$14.72	\$27.05
Cooks, Restaurant (35-2014)	54,730	60,083	5,353	10%	8,963	\$10.51	\$13.28	\$18.16
Bakers (51-3011)	11,057	11,431	374	3%	1,641	\$10.50	\$12.06	\$17.69
Total	128,293	139,437	11,144	9%	19,946			

Appendix B: Sources

- O*NET Online
- Labor Insight/Jobs (Burning Glass)
- Economic Modeling Specialists, International (EMSI)
- Bureau of Labor Statistics (BLS)
- 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)

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