



Pharmacy Technology

Program Report For Greater South Bay and Peninsula Region (Santa Clara and San Mateo Counties)

September 2016

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Pharmacy Technician/Assistant

A program that prepares individuals, under the supervision of pharmacists, to prepare medications, provide medications and related assistance to patients, and manage pharmacy clinical and business operations. Includes instruction in medical and pharmaceutical terminology, principles of pharmacology and pharmaceuticals, drug identification, pharmacy laboratory procedures, prescription interpretation, patient communication and education, safety procedures, record-keeping, measurement and testing techniques, pharmacy business operations, prescription preparation, logistics and dispensing operations, and applicable standards and regulations.

Target Occupations‡

Code	Description
29-2052	Pharmacy Technicians
31-9095	Pharmacy Aides

‡Based on EMSI crosswalk of the Classification of Instructional Programs (CIP) codes with Standard Occupational Classification (SOC) codes as published by the U.S. Department of Education.

In 2016, the number of Pharmacy Technology jobs in Santa Clara and San Mateo counties totaled 2,854. The Bureau of Labor Statistics (BLS) expects the total number of positions to increase by 1.6% over the next three years.

Occupation Summary for Pharmacy Technology

2,854 Jobs (2016) ¹ 35% below National average ²	1.6% % Change (2016-2019) ³ Nation: 4.3%	\$20.31/hr Median Hourly Earnings Nation: \$14.78/hr
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¹Based on total number of jobs for target occupations in Santa Clara and San Mateo Counties.

²Represents occupation density as compared to national average (national average=1).

³Based on turnover and new jobs.

Target occupations that are mapped to the Pharmacy Technician/Assistant program are disaggregated to see which occupations are projected to see the highest number of annual openings (Pharmacy Technicians), highest percentage rate of growth over the next three year (Pharmacy Technicians), and the highest median hourly earnings (Pharmacy Technicians). Note that while Pharmacy Technician/Assistants are expected to experience job growth of 3% over the next three years, this occupation grouping is less represented and concentrated in our region (Santa Clara and San Mateo Counties) compared to the national average.

Target Occupations

Occupation	2016 Jobs	Annual Openings	Median Hourly Earnings	Growth (2016 - 2019)	Location Quotient (2016)
Pharmacy Technicians	2,428	45	\$21.31/hr	2.55%	0.61
Pharmacy Aides	425	9	\$14.74/hr	-3.53%	1.08

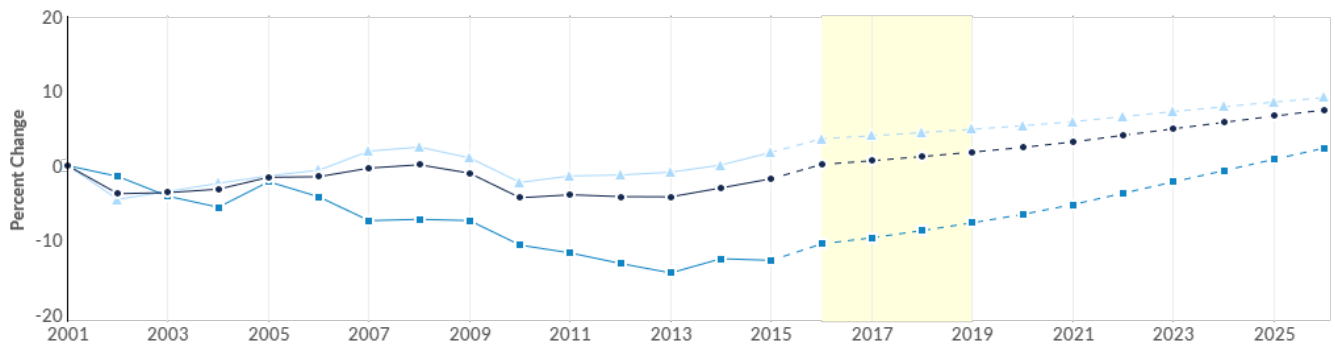
Growth in the Pharmacy Technician/Assistant occupations show how each occupation is projected to increase in jobs over the next three years. Modest growth is expected for Pharmacy Technicians (3%), while a decline in growth is expected in Pharmacy Aides (-4%).

Growth for Pharmacy Technology

2,854 2016 Jobs	2,901 2019 Jobs	47 Change (2016-2019)	1.6% % Change (2016-2019)
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Occupation	2016 Jobs	2019 Jobs	Change	% Change
Pharmacy Technicians (29-2052)	2,428	2,490	62	3%
Pharmacy Aides (31-9095)	425	410	-15	-4%

Regional Trends

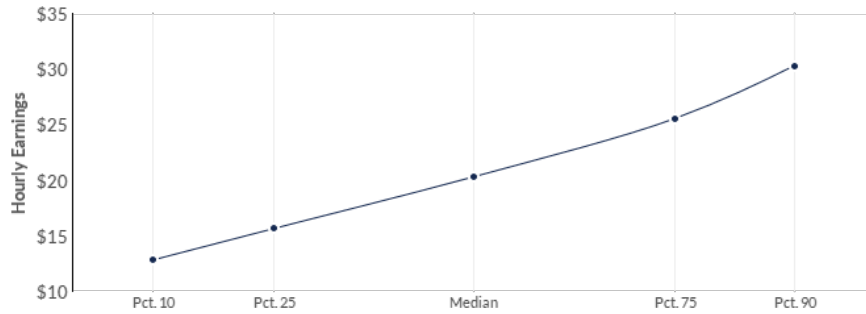


Region	2016 Jobs	2019 Jobs	Change	% Change
● Region	2,854	2,901	47	1.6%
● San Mateo County, CA	624	644	20	3.2%
● Santa Clara County, CA	2,230	2,257	27	1.2%

The percentile earnings table shows the range the Pharmacy Technician/Assistant occupations earn in the region. While the median earnings are about \$20/hour, wages can range from below \$15/hour to above \$25/hour. Each of the target occupations' range in wages is also displayed.

Percentile Earnings for Pharmacy Technology

\$15.63/hr 25th Percentile Earnings	\$20.31/hr Median Earnings	\$25.53/hr 75th Percentile Earnings
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Occupation	25th Percentile Earnings	Median Earnings	75th Percentile Earnings
Pharmacy Technicians (29-2052)	\$16.44	\$21.31	\$26.69
Pharmacy Aides (31-9095)	\$11.17	\$14.74	\$19.11

Program Completion Data

Program data reviews completion information about awards by institution and types of awards conferred in the region (Santa Clara and San Mateo Counties). Foothill College is the one of six regional institutions that is supporting and preparing for Pharmacy Technician/Assistant occupations.

Program Summary for Pharmacy Technician/Assistant

6	49	90
Regional Institutions	Regional Program Completions (2015)	Annual Openings (2015)
had Completions in the last 13 years	Foothill College Completions: 37	

Regional Completions by Institution

Institution	Certificates (2015)	Degrees (2015)	Total Completions (2015)
Foothill College	17	20	37
Carrington College-San Jose	0	12	12
Heald College-San Jose	0	0	0
Everest College-San Jose	0	0	0
Opportunities Industrialization Center-West	0	0	0
BioHealth College	0	0	0

Regional Completions by Award Level

Award Level	Completions (2015)	Percent
Award of at least 1 but less than 2 academic years	17	34.7% 
Associates degree	32	65.3% 






Target Occupations Demographics

The demographics among those employed in Pharmacy Technician/Assistant occupations in Santa Clara and San Mateo Counties for 2016 show that a majority are female (76%) and more than a third are between the ages of 25-34 (37%) and White (37%).








Occupation Gender Breakdown

Gender	2016 Jobs	2016 Percent
Males	679	23.8% 
Females	2,175	76.2% 

Occupation Age Breakdown

Age	2016 Jobs	2016 Percent
14-18	7	0.2% 
19-24	424	14.9% 
25-34	1,068	37.4% 
35-44	614	21.5% 
45-54	431	15.1% 
55-64	253	8.8% 
65+	56	2.0% 

Occupation Race/Ethnicity Breakdown

Race/Ethnicity	2016 Jobs	2016 Percent
White	1,048	36.7% 
Asian	815	28.6% 
Hispanic or Latino	729	25.5% 
Black or African American	176	6.2% 
Two or More Races	57	2.0% 
Native Hawaiian or Other Pacific Islander	17	0.6% 
American Indian or Alaska Native	11	0.4% 

Industries Employing Pharmacy Technician/Assistant Occupations

A number of industries in Santa Clara and San Mateo Counties employ those trained in Pharmacy Technician/Assistant and its related occupations. The following table represents a regional industry breakdown of the number of Pharmacy Technician/Assistant positions employed, the percentage of Pharmacy Technician/Assistant employed by industry and the percentage Pharmacy Technician/Assistant jobs represent within all jobs by each industry. While general medical and surgical hospitals employed 14% of all regional Pharmacy Technician/Assistant positions in 2016, pharmacy technicians compose a minority of all jobs in that industry (1%).

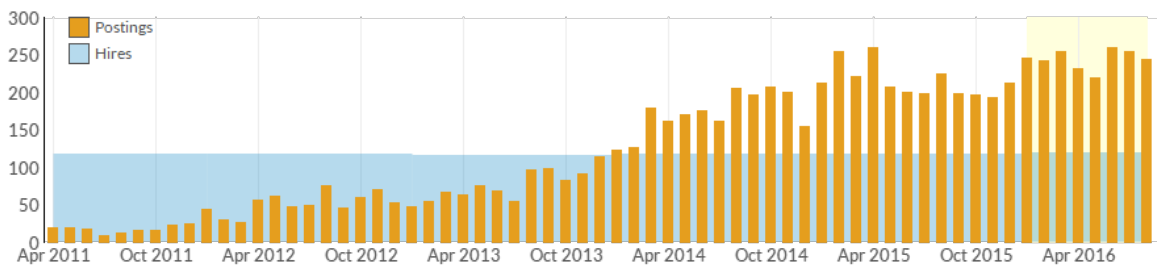
Industries Employing Pharmacy Technology Occupations

Industry	Occupation Group Jobs in Industry (2016)	% of Occupation Group in Industry (2016)	% of Total Jobs in Industry (2016)
Pharmacies and Drug Stores	1,283	45.0%	30.3%
General Medical and Surgical Hospitals	407	14.3%	1.3%
Supermarkets and Other Grocery (except Convenience) Stores	246	8.6%	1.1%
Warehouse Clubs and Supercenters	107	3.7%	1.5%
Hospitals (Local Government)	104	3.7%	1.3%

In an average month, there were 244 unique (internet) job postings for Pharmacy Technology jobs, and 120 actually hired from January 2016 to August 2016. This means there was approximately 1 hire for every 2 unique (internet) job postings for occupations in Pharmacy Technology. In cases where there were more hires than job postings, it suggests that the internet may not be the primary way that job openings for these occupations are advertised.

Job Postings vs. Hires

244	120
Avg. Monthly Postings (Jan 2016 - Aug 2016)	Avg. Monthly Hires (Jan 2016 - Aug 2016)



Occupation	Avg Monthly Postings (Jan 2016 - Aug 2016)	Avg Monthly Hires (Jan 2016 - Aug 2016)
Pharmacy Technicians	239	101
Pharmacy Aides	5	19

The top five concentrated hard and soft skills employers list in Pharmacy Technology job posting descriptions are listed below. Postings with skill is the total amount of (internet) job postings that mention the skill listed below. These numbers may be higher than the average monthly postings from above, because this number includes duplicated (internet) job postings. Concentration scores gauge relevance of the skill by representing the frequency in which this skill is being mentioned in (internet) job postings for Pharmacy Technology compared to all other (internet) job postings.

Concentrated Hard Skills

Skill	Concentration Score	Postings with Skill
Collective Bargaining	35.54	656
Federal Laws	25.18	695
State Laws	24.25	668
Prescription	11.21	616
Inventory Management	9.67	847

Concentrated Soft Skills

Skill	Concentration Score	Postings with Skill
Scheduling (Project Management)	0.43	1,023
Ethics	0.40	254
Listening	0.07	151
Leading	0.06	211
Medical Ethics	0.04	3

Appendix A - Data Sources and Calculations

Location Quotient

Location quotient (LQ) is a way of quantifying how concentrated a particular industry, cluster, occupation, or demographic group is in a region as compared to the nation. It can reveal what makes a particular region unique in comparison to the national average.

Occupation Data

Emsi occupation employment data are based on final Emsi industry data and final Emsi staffing patterns. Wage estimates are based on Occupational Employment Statistics (QCEW and Non-QCEW Employees classes of worker) and the American Community Survey (Self-Employed and Extended Proprietors). Occupational wage estimates also affected by county-level Emsi earnings by industry.

Completers Data

The completers data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.

Institution Data

The institution data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.

CareerBuilder/Emsi Job Postings

Job postings are collected from various sources and processed/enriched by Careerbuilder to provide information such as standardized company name, occupation, skills, and geography. Emsi performs additional filtering and processing to improve compatibility with Emsi data.

State Data Sources

This report uses state data from the following agencies: California Labor Market Information Department