



# **Dental Hygiene**

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

September 2016

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## Dental Hygiene/Hygienist

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CIP 2010: A program that prepares individuals to clean teeth and apply preventive materials, provide oral health education and treatment counseling to patients, identify oral pathologies and injuries, and manage dental hygiene practices. Includes instruction in dental anatomy, microbiology, and pathology; dental hygiene theory and techniques; cleaning equipment operation and maintenance; dental materials; radiology; patient education and counseling; office management; supervised clinical training; and professional standards.

## Target Occupations‡

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Dental Hygienists (29-2021)

‡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 Dental Hygiene/Hygienist jobs in the target occupations in Santa Clara and San Mateo Counties totaled 2,142. The Bureau of Labor Statistics (BLS) expects the total number of positions to increase by almost 5% over the next three years.

## Occupation Summary for Dental Hygiene/Hygienist

<b>2,142</b> <b>Jobs (2016)<sup>1</sup></b> 1% above National average <sup>2</sup>	<b>4.6%</b> <b>% Change (2016-2019)<sup>3</sup></b> Nation: 5.7%	<b>\$49.73/hr</b> <b>Median Hourly Earnings</b> Nation: \$35.99/hr
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<sup>1</sup>Based on total number of jobs for target occupations in Santa Clara and San Mateo Counties.

<sup>2</sup>Represents occupation density as compared to national average (national average=1).

<sup>3</sup>Based on turnover and new jobs.

Target occupations that are mapped to the Dental Hygiene/Hygienist program are disaggregated to see which occupations are projected to see the highest number of annual openings (Dental Hygienists), highest percentage rate of growth over the next three year (Dental Hygienists), and the highest median hourly earnings (Dental Hygienists). While Dental Hygienists are expected to experience job growth (5%), these occupations are only slightly more represented and concentrated in our region (Santa Clara and San Mateo Counties) compared to the national average.

## Target Occupations

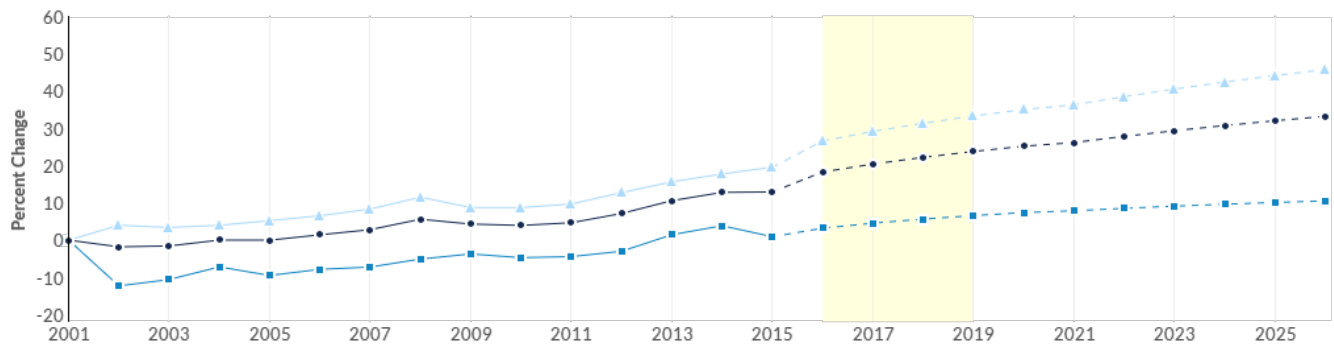
Occupation	2016 Jobs	Annual Openings	Median Hourly Earnings	Growth (2016 - 2019)	Location Quotient (2016)
Dental Hygienists	2,142	70	\$49.73/hr	4.62%	1.01

Growth in the Dental Hygiene/Hygienist occupations show how each occupation is projected to increase in jobs over the next three years. A growth of about 5% is expected in the next three years for Dental Hygienists.

## Growth for Dental Hygienists (SOC 29-2021)

<b>2,142</b>	<b>2,241</b>	<b>99</b>	<b>4.6%</b>
2016 Jobs	2019 Jobs	Change (2016-2019)	% Change (2016-2019)

## Regional Trends

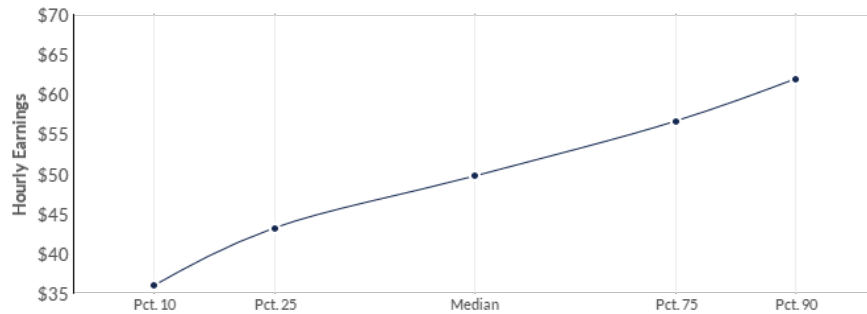


	Region	2016 Jobs	2019 Jobs	Change	% Change
●	Region	2,142	2,241	99	4.6%
●	San Mateo County, CA	665	687	22	3.3%
●	Santa Clara County, CA	1,477	1,555	78	5.3%

The percentile earnings table shows the range the Dental Hygienist occupations earn in the region. While the median earnings are almost \$50/hour, wages can range from below \$43/hour to above \$56/hour.

### Percentile Earnings for Dental Hygienists (SOC 29-2021)

<b>\$43.20/hr</b>	<b>\$49.73/hr</b>	<b>\$56.61/hr</b>
25th Percentile Earnings	Median Earnings	75th Percentile Earnings



## 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 two regional institutions that is supporting and preparing for Dental Hygiene/Hygienist occupations.

### Program Summary for Dental Hygiene/Hygienist

<b>2</b>	<b>76</b>	<b>132</b>
<b>Regional Institutions</b>	<b>Regional Program Completions (2015)</b>	<b>Annual Openings (2015)</b>
had Completions in the last 13 years	Foothill Completions: 23	

### Regional Completions by Institution

Institution	Certificates (2015)	Degrees (2015)	Total Completions (2015)
Carrington College-San Jose	0	53	53
Foothill College	0	23	23



### Regional Completions by Award Level

Award Level	Completions (2015)	Percent
Associates degree	76	100.0% 




## Target Occupations Demographics

The demographics among those employed in Dental Hygiene/Hygienist occupations in Santa Clara and San Mateo Counties for 2016 show that are a majority of females (94%) and almost a third are between the ages of 35-44 (30%) and a majority are White (53%).








### Occupation Gender Breakdown

Gender	2016 Jobs	2016 Percent
Males	120	5.6% 
Females	2,021	94.4% 

### Occupation Age Breakdown

Age	2016 Jobs	2016 Percent
14-18	2	0.1% 
19-24	72	3.3% 
25-34	527	24.6% 
35-44	638	29.8% 
45-54	583	27.2% 
55-64	268	12.5% 
65+	52	2.4% 

### Occupation Race/Ethnicity Breakdown

Race/Ethnicity	2016 Jobs	2016 Percent
White	1,141	53.3% 
Asian	617	28.8% 
Hispanic or Latino	313	14.6% 
Two or More Races	34	1.6% 
Black or African American	25	1.2% 
Native Hawaiian or Other Pacific Islander	7	0.3% 
American Indian or Alaska Native	4	0.2% 

## Industries Employing Dental Hygiene/Hygienist Occupations

A number of industries in Santa Clara and San Mateo Counties employ those trained in Dental Hygiene/Hygienist and its related occupations. The following table represents a regional industry breakdown of the number of Dental Hygiene/Hygienist positions employed, the percentage of Dental Hygiene/Hygienist employed by industry and the Dental Hygiene/Hygienist jobs represent within all jobs by each industry. While Offices of Dentists employed 96% of all regional Dental Hygiene/Hygienist positions in 2016, Dental Hygienists composed only 16% of jobs in that industry.

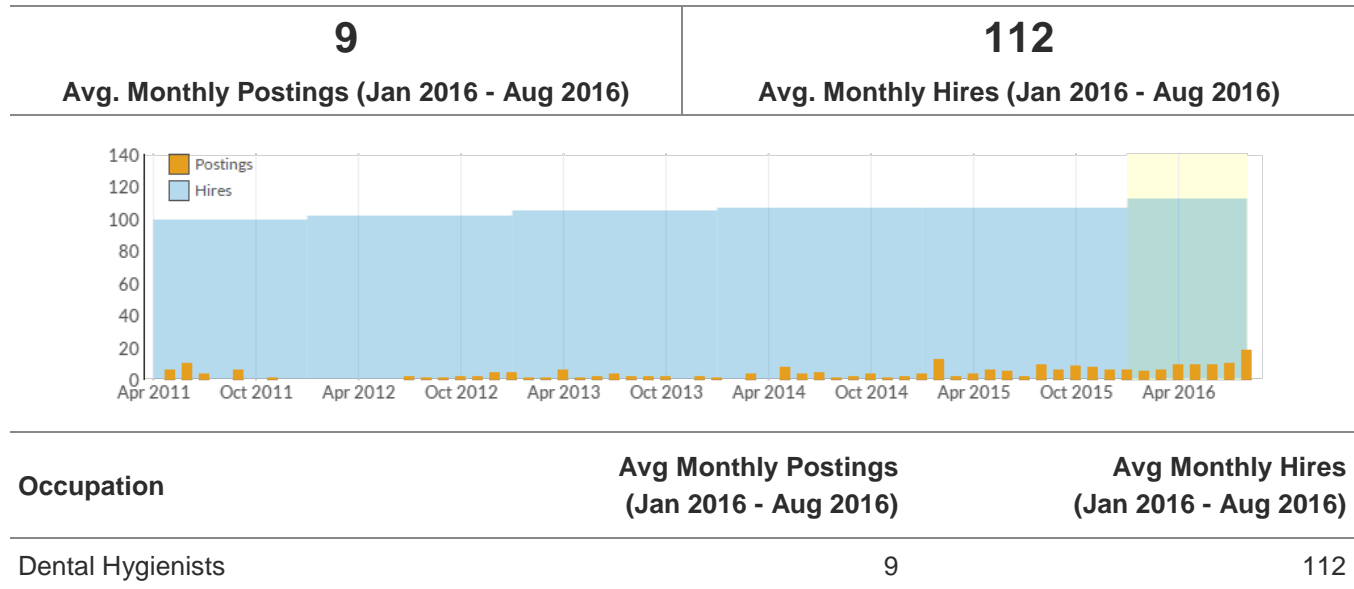
### Industries Employing Dental Hygienists

Industry	Occupation Jobs in Industry (2016)	% of Occupation in Industry (2016)	% of Total Jobs in Industry (2016)
Offices of Dentists	2,060	96.2%	16.0%
HMO Medical Centers	16	0.7%	0.2%
Unclassified Industry	14	0.6%	0.2%
Temporary Help Services	12	0.6%	0.0%
Offices of Physicians (except Mental Health Specialists)	<10	0.5%	0.1%



In an average month, there were 9 unique (internet) job postings for Dental Hygiene/Hygienist jobs, and 112 actually hired from January 2016 to August 2016. This means there was approximately 15 hires for every 1 unique (internet) job posting for occupations in Dental Hygiene/Hygienist. In cases where there were more hires compared to 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



The top five concentrated hard and soft skills employers list in Dental Hygiene 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 Dental Hygiene compared to all other (internet) job postings.

## Concentrated Hard Skills

Skill	Concentration Score	Postings with Skill
Local Anesthesia	33,578.25	63
Dental Health	12,161.57	63
Debridement	10,985.70	63
Sealants	7,294.12	67
Periodontology	4,431.30	68

## Concentrated Soft Skills

Skill	Concentration Score	Postings with Skill
Recall (Memory)	1,205.26	16
Scheduling (Project Management)	1.08	26

# 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