



Respiratory Therapy

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

September 2016

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Respiratory Care Therapy/Therapist

CIP 2010: A program that prepares individuals, under the supervision of physicians, to assist in developing respiratory care plans, administer respiratory care procedures, supervise personnel and equipment operation, maintain records, and consult with other health care team members. Includes instruction in the applied basic biomedical sciences; anatomy, physiology, and pathology of the respiratory system; clinical medicine; therapeutic procedures; clinical expressions; data collection and record-keeping; patient communication; equipment operation and maintenance; personnel supervision; and procedures for special population groups.

Target Occupations‡

Respiratory Therapists (29-1126)

Respiratory Therapy Technicians (29-2054)

‡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 Respiratory Care Therapy/Therapist jobs in Santa Clara and San Mateo Counties totaled 1,163. The Bureau of Labor Statistics (BLS) expects the total number of positions to increase by 5% over the next three years.

Occupation Summary for Respiratory Therapy

1,163 Jobs (2016) ¹ 15% below National average ²	5.0% % Change (2016-2019) ³ Nation: 4.4%	\$44.67/hr Median Hourly Earnings Nation: \$28.28/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 Respiratory Care Therapy/Therapist program are disaggregated to see which occupations are projected to see the highest number of annual openings (Respiratory Therapists), highest percentage rate of growth over the next three years (Respiratory Therapists), and the highest median hourly earnings (Respiratory Therapists). While Respiratory Therapists are expected to experience job growth (5%), these occupations are 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)
Respiratory Therapists	1,114	47	\$45.27/hr	5.39%	0.88
Respiratory Therapy Technicians	48	0	\$31.05/hr	-4.17%	0.47

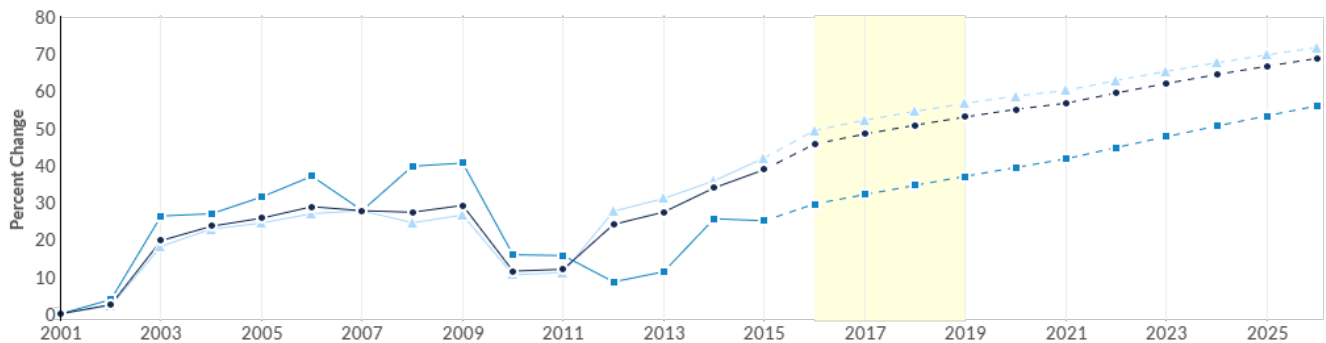
Growth in the Respiratory Therapy occupations show how each occupation is projected to increase in jobs over the next three years. Modest growth is expected for Respiratory Therapists (5%) and decline in growth is expected for Respiratory Therapy Technicians (-4%).

Growth for Respiratory Therapy

1,163	1,221	58	5.0%
2016 Jobs	2019 Jobs	Change (2016-2019)	% Change (2016-2019)

Occupation	2016 Jobs	2019 Jobs	Change	% Change
Respiratory Therapists (29-1126)	1,114	1,174	60	5%
Respiratory Therapy Technicians (29-2054)	48	46	-2	-4%

Regional Trends

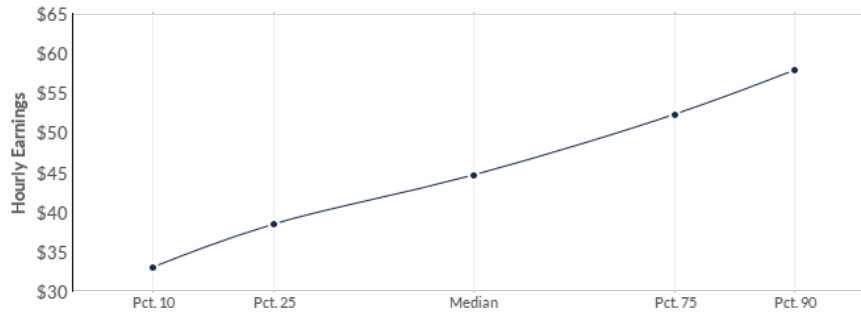


Region	2016 Jobs	2019 Jobs	Change	% Change
● Region	1,163	1,221	58	5.0%
● San Mateo County, CA	192	203	11	5.7%
● Santa Clara County, CA	970	1,017	47	4.8%

The percentile earnings table shows the range Respiratory Care Therapy/Therapist occupations earn in the region. While the median earnings are about \$44/hour, wages can range from below \$38/hour to above \$52/hour. Each of the target occupations' range in wages is also displayed.

Percentile Earnings for Respiratory Therapy

\$38.46/hr 25th Percentile Earnings	\$44.67/hr Median Earnings	\$52.30/hr 75th Percentile Earnings
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Occupation	25th Percentile Earnings	Median Earnings	75th Percentile Earnings
Respiratory Therapists (29-1126)	\$39.15	\$45.27	\$52.97
Respiratory Therapy Technicians (29-2054)	\$22.81	\$31.05	\$37.01

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 three regional institutions that is supporting and preparing for Respiratory Care Therapy/Therapist occupations.

Program Summary for Respiratory Care Therapy/Therapist

3	47	82
Regional Institutions	Regional Program Completions (2015)	Annual Openings (2015)
had Completions in the last 13 years	Foothill College Completions: 26	

Regional Completions by Institution

Institution	Certificates (2015)	Degrees (2015)	Total Completions (2015)
Foothill College	0	26	26
Skyline College	0	21	21
Everest College-San Jose	0	0	0


Regional Completions by Award Level

Award Level	Completions (2015)	Percent
Associates degree	47	100.0% 

Target Occupations Demographics

The demographics among those employed in Respiratory Care Therapy/Therapist occupations in Santa Clara and San Mateo Counties for 2016 show that a majority are female (63%) and almost a quarter are between the ages of 25-34 (25%), 35-44 (29%), and 45-54 (25%) and almost half are White (41%).





Occupation Gender Breakdown

Gender	2016 Jobs	2016 Percent
Males	435	37.4% 
Females	728	62.6% 

Occupation Age Breakdown

Age	2016 Jobs	2016 Percent
14-18	0	0.0%
19-24	17	1.4%
25-34	286	24.6% 
35-44	335	28.8% 
45-54	292	25.1% 
55-64	208	17.9% 
65+	26	2.2%

Occupation Race/Ethnicity Breakdown

Race/Ethnicity	2016 Jobs	2016 Percent
White	478	41.1% 
Asian	410	35.3% 
Hispanic or Latino	178	15.3% 
Black or African American	67	5.8% 
Two or More Races	21	1.8%
Native Hawaiian or Other Pacific Islander	6	0.6%
American Indian or Alaska Native	2	0.2%

Industries Employing Respiratory Care Therapy/Therapist Occupations

A number of industries in Santa Clara and San Mateo Counties employ those trained in Respiratory Care Therapy and its related occupations. The following table represents a regional industry breakdown of the number of Respiratory Care Therapy/Therapist positions employed, the percentage of Respiratory Care Therapy/Therapist employed by industry and the percentage Respiratory Care Therapy/Therapist jobs represent within all jobs by each industry. While general medical and surgical hospitals employed 61% of all regional Respiratory Care Therapy/Therapist positions in 2016, respiratory therapists compose a minority of all jobs in that industry (2%).

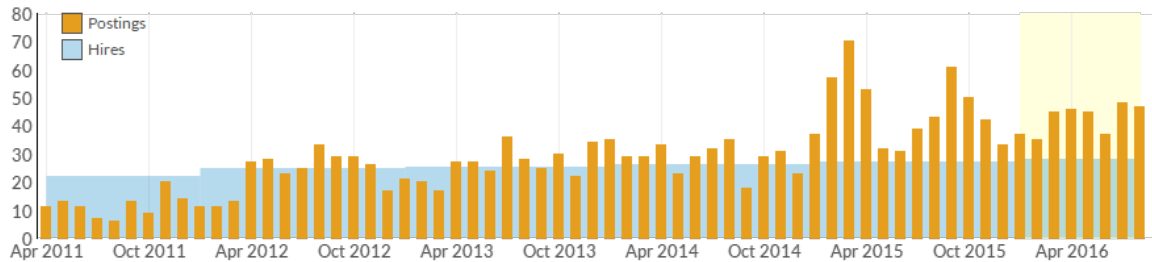
Industries Employing Respiratory Therapy Occupations

Industry	Occupation Group Jobs in Industry (2016)	% of Occupation Group in Industry (2016)	% of Total Jobs in Industry (2016)
General Medical and Surgical Hospitals	711	61.2%	2.3%
Hospitals (Local Government)	164	14.1%	2.0%
Specialty (except Psychiatric and Substance Abuse) Hospitals	71	6.1%	3.3%
Nursing Care Facilities (Skilled Nursing Facilities)	35	3.0%	0.5%
Offices of Physicians (except Mental Health Specialists)	24	2.0%	0.1%

In an average month, there were 43 unique (internet) job postings for Respiratory Therapy jobs, and 28 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 Respiratory Therapy.

Job Postings vs. Hires

43	28
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)
Respiratory Therapists	41	27
Respiratory Therapy Technicians	1	1

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

Concentrated Hard Skills

Skill	Concentration Score	Postings with Skill
Intrapulmonary Percussive Ventilator	3,703.88	50
Inhaler	1,338.37	39
Dry Powder Inhalers	1,254.24	60
Secretion	1,014.65	35
Mechanical Ventilation	596.33	116

Concentrated Soft Skills

Skill	Concentration Score	Postings with Skill
Critical Thinking	0.38	16
Speech	0.37	9
Cooperation	0.24	5
Persuasive Communication	0.24	5
Mental Health	0.15	5

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