FOOTHILL COLLEGE

Veterinary Technology

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

September 2016

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Veterinary/Animal Health Technology/Technician and Veterinary Assistant

CIP 2010: A program that prepares individuals, under the supervision of veterinarians, laboratory animal specialists, and zoological professionals, to provide patient management, care, and clinical procedures assistance as well as owner communication. Includes instruction in animal nursing care, animal health and nutrition, animal handling, clinical pathology, radiology, anesthesiology, dental prophylaxis, surgical assisting, clinical laboratory procedures, office administration skills, patient and owner management, and applicable standards and regulations.

Target Occupations[‡]

Veterinary Technologists and Technicians (29-2056)

Veterinary Assistants and Laboratory Animal Caretakers (31-9096)

[‡]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 Veterinary Technology jobs in Santa Clara and San Mateo Counties totaled 1,676. The Bureau of Labor Statistics (BLS) expects the total number of positions to increase by 5% over the next three years.

Occupation Summary for Veterinary Technology

1,676	5.4%	$17.44/hr
Jobs (2016)[1]	**% Change (2016-2019)[3]**	**Median Hourly Earnings**
13% below National average[2]	Nation: 7.9%	Nation: $14.09/hr

[1]Based on total number of jobs for target occupations in Santa Clara and San Mateo Counties.
[2]Represents occupation density as compared to national average (national average=1).
[3]Based on turnover and new jobs.

Target occupations that are mapped to the Veterinary Technology program are disaggregated to see which occupations are projected to see the highest number of annual openings (Veterinary Assistants and Laboratory Animal Caretakers), highest percentage rate of growth over the next three years (Veterinary Technologists and Technicians), and the highest median hourly earnings (Veterinary Technologists and Technicians). While Veterinary Assistants and Laboratory Animal Caretakers are expected to experience job growth (5%), these occupations are more highly represented and concentrated in our region (Santa Clara and San Mateo Counties) compared to the national average.

Target Occupations

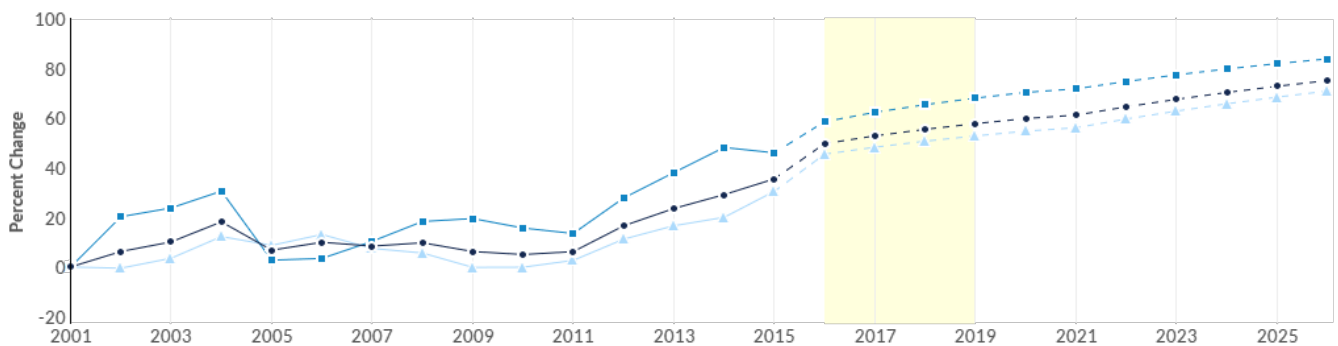| Occupation	2016 Jobs	Annual Openings	Median Hourly Earnings	Growth (2016 - 2019)	Location Quotient (2016)
Veterinary Assistants and Laboratory Animal Caretakers	1,086	40	$15.64/hr	4.51%	1.23
Veterinary Technologists and Technicians	589	20	$20.95/hr	7.13%	0.57

Growth in the Veterinary Technology occupations show how each occupation is projected to increase in jobs over the next three years. Modest growth is expected for Veterinary Assistants and Laboratory Animal Caretakers (5%) while higher growth is expected in Veterinary Technologist and Technicians (7%).

Growth for Veterinary Technology

1,676	1,766	90	5.4%
2016 Jobs	**2019 Jobs**	**Change (2016-2019)**	**% Change (2016-2019)**

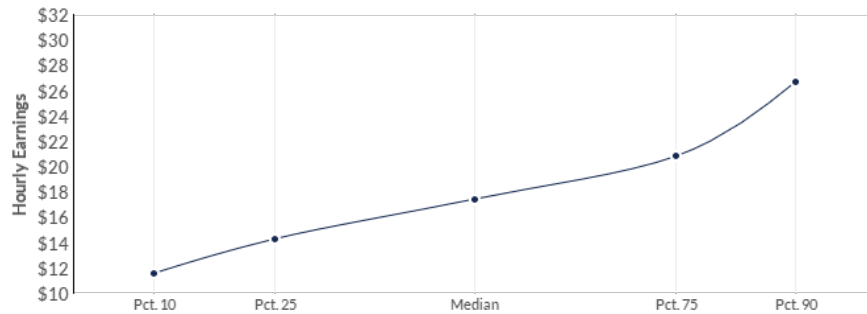| Occupation	2016 Jobs	2019 Jobs	Change	% Change
Veterinary Technologists and Technicians (29-2056)	589	631	42	7%
Veterinary Assistants and Laboratory Animal Caretakers (31-9096)	1,086	1,135	49	5%

Regional Trends

Region	2016 Jobs	2019 Jobs	Change	% Change
● Region	1,676	1,766	90	5.4%
● San Mateo County, CA	576	610	34	5.9%
● Santa Clara County, CA	1,100	1,156	56	5.1%

The percentile earnings table shows the range the Veterinary Technology occupations earn in the region. While the median earnings are about $17/hour, wages can range from below $14/hour to above $20/hour. Each of the target occupations' range in wages is also displayed.

Percentile Earnings for Veterinary Technology

$14.28/hr	$17.44/hr	$20.80/hr
25th Percentile Earnings	**Median Earnings**	**75th Percentile Earnings**

Occupation	25th Percentile Earnings	Median Earnings	75th Percentile Earnings
Veterinary Technologists and Technicians (29-2056)	$17.35	$20.95	$24.10
Veterinary Assistants and Laboratory Animal Caretakers (31-9096)	$12.71	$15.64	$19.12

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 Veterinary Technology occupations.

Program Summary for Veterinary/Animal Health Technology/Technician and Veterinary Assistant

2	87	187
Regional Institutions	**Regional Program Completions (2015)**	**Annual Openings (2015)**
had Completions in the last 13 years	Foothill College Completions: 35	

Regional Completions by Institution

Institution	Certificates (2015)	Degrees (2015)	Total Completions (2015)
Carrington College-San Jose	0	52	52
Foothill College	0	35	35

Regional Completions by Award Level

Award Level	Completions (2015)	Percent	
Associates degree	87	100.0%	▬▬▬▬▬

Target Occupations Demographics

The demographics among those employed in Veterinary Technology occupations in Santa Clara and San Mateo Counties for 2016 show that a majority are female (71%) and a third are between the ages of 25-34 (37%) and more than half are White (58%).

Occupation Gender Breakdown

Gender	2016 Jobs	2016 Percent	
Males	491	29.3%	
Females	1,185	70.7%	

Occupation Age Breakdown

Age	2016 Jobs	2016 Percent	
14-18	12	0.7%	
19-24	244	14.5%	
25-34	612	36.5%	
35-44	401	23.9%	
45-54	259	15.4%	
55-64	115	6.9%	
65+	34	2.0%	

Occupation Race/Ethnicity Breakdown

Race/Ethnicity	2016 Jobs	2016 Percent	
White	968	57.7%	
Asian	298	17.8%	
Hispanic or Latino	288	17.2%	
Black or African American	64	3.8%	
Two or More Races	47	2.8%	
Native Hawaiian or Other Pacific Islander	6	0.4%	
American Indian or Alaska Native	5	0.3%	

Industries Employing Veterinary Technology Occupations

A number of industries in Santa Clara and San Mateo Counties employ those trained in Veterinary Technology and its related occupations. The following table represents a regional industry breakdown of the number of Veterinary Technology positions employed, the percentage of Veterinary Technology employed by industry and the percentage Veterinary Technology jobs represent within all jobs by each industry. While the Veterinary Services industry employed 77% of all regional Veterinary Technology positions in 2016, Veterinary Technologists compose about only half of all jobs in that industry (49%).
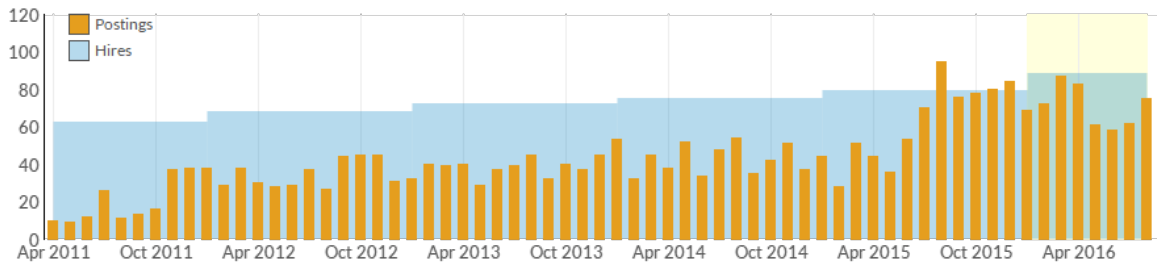
Industries Employing Veterinary Technology Occupations

Industry	Occupation Group Jobs in Industry (2016)	% of Occupation Group in Industry (2016)	% of Total Jobs in Industry (2016)
Veterinary Services	1,290	77.0%	48.5%
Research and Development in the Physical, Engineering, and Life Sciences (except Biotechnology)	131	7.8%	0.4%
Colleges, Universities, and Professional Schools	124	7.4%	0.4%
Research and Development in Biotechnology	36	2.1%	0.4%
Unclassified Industry	12	0.7%	0.1%

In an average month, there were 71 unique (internet) job postings for Veterinary Technology jobs, and 88 actually hired from January 2016 to August 2016. This means there was approximately 1 hire for every 1 unique (internet) job posting for occupations in Veterinary Technology.

Job Postings vs. Hires

71	88
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)
Veterinary Assistants and Laboratory Animal Caretakers	47	56
Veterinary Technologists and Technicians	24	32

The top five concentrated hard and soft skills employers list in Veterinary Technology 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 Adaptive Fitness compared to all other (internet) job postings.

Concentrated Hard Skills

Skill	Concentration Score	Postings with Skill
Certified Veterinary Technician	203.38	133
Dentistry	98.19	270
Veterinary Medicine	90.21	264
Clinical Surveillance	86.52	3
Anesthesias	63.95	311

Concentrated Soft Skills

Skill	Concentration Score	Postings with Skill
Learning	9.12	523
Listening	4.69	331
Leadership	1.00	337
Depth Perception	0.63	27
Scheduling (Project Management)	0.55	372

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