



Radiologic Technology

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

September 2016

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Radiologic Technology/Science - Radiographer

CIP 2010: A program that prepares individuals, under the supervision of physicians, to provide medical imaging services to patients and attending health care professionals. Includes instruction in applied anatomy and physiology, patient positioning, radiographic technique, radiation biology, safety and emergency procedures, equipment operation and maintenance, quality assurance, patient education, and medical imaging/radiologic services management.

Target Occupations‡

Radiologic Technologists (29-2034)

Magnetic Resonance Imaging Technologists (29-2035)

‡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 Radiologic Technology jobs in the target occupations in Santa Clara and San Mateo Counties totaled 1,367. The Bureau of Labor Statistics (BLS) expects the total number of positions to increase by 6% over the next three years.

Occupation Summary for Radiologic Technology

1,367 Jobs (2016) ¹ 43% below National average ²	6.1% % Change (2016-2019) ³ Nation: 3.9%	\$47.49/hr Median Hourly Earnings Nation: \$28.81/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 Radiologic Technology program are disaggregated to see which occupations are projected to see the highest number of annual openings (Radiologic Technologists), highest percentage rate of growth over the next three years (Magnetic Resonance Imaging Technologists), and the highest median hourly earnings (Magnetic Resonance Imaging Technologists). While Magnetic Resonance Imaging Technologists are expected to experience job growth (7%), 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)
Radiologic Technologists	1,183	47	\$47.39/hr	5.92%	0.57
Magnetic Resonance Imaging Technologists	184	8	\$48.19/hr	7.07%	0.53

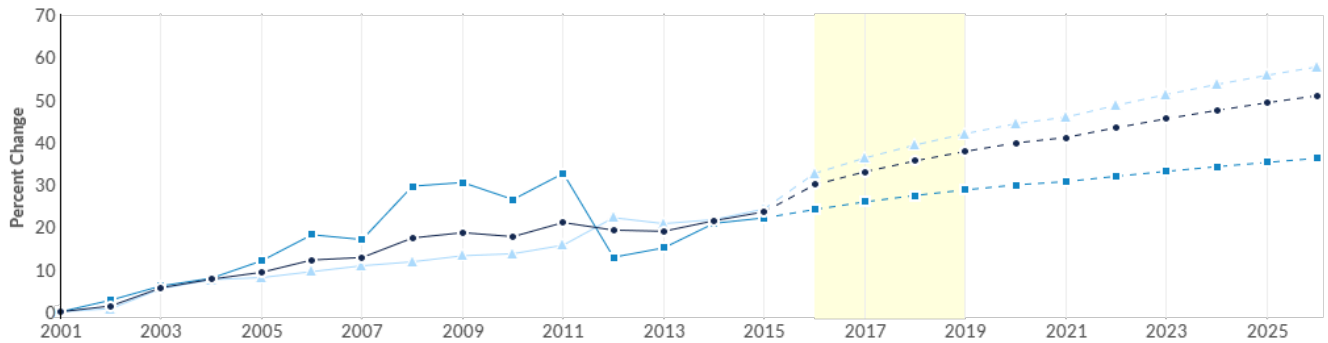
Growth in the Radiologic Technology occupations show how each occupation is projected to increase in jobs over the next three years. A growth of about 6% is expected in the next three years for Radiologic Technology.

Growth for Radiologic Technology

1,367 2016 Jobs	1,450 2019 Jobs	83 Change (2016-2019)	6.1% % Change (2016-2019)
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Occupation	2016 Jobs	2019 Jobs	Change	% Change
Radiologic Technologists (29-2034)	1,183	1,253	70	6%
Magnetic Resonance Imaging Technologists (29-2035)	184	197	13	7%

Regional Trends

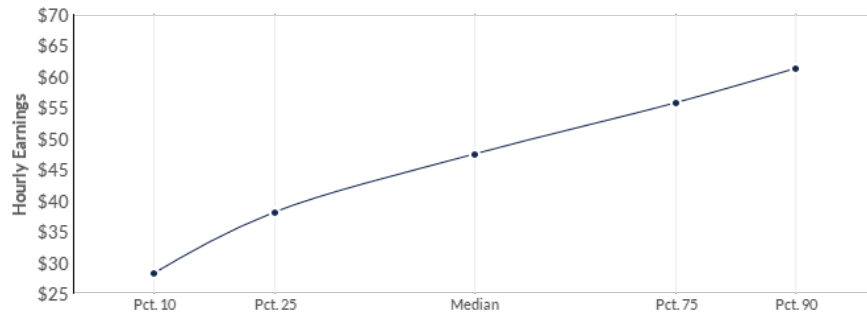


Region	2016 Jobs	2019 Jobs	Change	% Change
● Region	1,367	1,450	83	6.1%
● San Mateo County, CA	412	427	15	3.6%
● Santa Clara County, CA	955	1,023	68	7.1%

The percentile earnings table shows the range the Radiologic Technology occupations earn in the region. While the median earnings are about \$47/hour, wages can range from below \$38/hour to above \$55/hour. Each of the target occupations' range in wages is also displayed.

Percentile Earnings for Radiologic Technology

\$38.08/hr	\$47.49/hr	\$55.76/hr
25th Percentile Earnings	Median Earnings	75th Percentile Earnings



Occupation	25th Percentile Earnings	Median Earnings	75th Percentile Earnings
Radiologic Technologists (29-2034)	\$38.67	\$47.39	\$55.65
Magnetic Resonance Imaging Technologists (29-2035)	\$34.32	\$48.19	\$56.45

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 one of the four regional institutions that is supporting and preparing for Radiologic Technology occupations.

Program Summary for Radiologic Technology/Science - Radiographer

4	46	93
Regional Institutions	Regional Program Completions (2015)	Annual Openings (2015)
had Completions in the last 13 years	Foothill College Completions: 19	

Regional Completions by Institution

Institution	Certificates (2015)	Degrees (2015)	Total Completions (2015)
Foothill College	0	19	19
Gurnick Academy of Medical Arts	17	0	17
Canada College	0	10	10
Institute of Medical Education	0	0	0

Regional Completions by Award Level

Award Level	Completions (2015)	Percent
Associates degree	29	63.0% 
Award of at least 2 but less than 4 academic years	17	37.0% 



Target Occupations Demographics

The demographics among those employed in Radiologic Technology occupations in Santa Clara and San Mateo Counties for 2016 show that are a majority of females (68%) and about a third are between the ages of 35-44 (29%) and half are White (50%).






Occupation Gender Breakdown

Gender	2016 Jobs	2016 Percent
Males	432	31.6% 
Females	935	68.4% 

Occupation Age Breakdown

Age	2016 Jobs	2016 Percent
14-18	0	0.0%
19-24	36	2.6% 
25-34	364	26.6% 
35-44	402	29.4% 
45-54	320	23.4% 
55-64	210	15.4% 
65+	34	2.5% 

Occupation Race/Ethnicity Breakdown

Race/Ethnicity	2016 Jobs	2016 Percent
White	685	50.1% 
Asian	357	26.1% 
Hispanic or Latino	235	17.2% 
Black or African American	55	4.0% 
Two or More Races	26	1.9% 
Native Hawaiian or Other Pacific Islander	7	0.5%
American Indian or Alaska Native	3	0.2%

Industries Employing Radiologic Technology Occupations

A number of industries in Santa Clara and San Mateo Counties employ those trained in Radiologic Technology and its related occupations. The following table represents a regional industry breakdown of the number of Radiologic Technology positions employed, the percentage of Radiologic Technology employed by industry and the Radiologic Technology jobs represent within all jobs by each industry. While General Medical and Surgical Hospitals employed 42% of all regional Radiologic Technology positions in 2016, Radiologic Technology occupations composed a minority of jobs in that industry (2%).

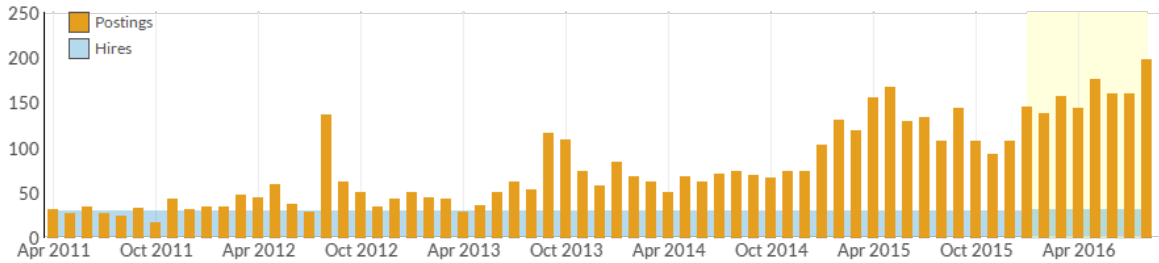
Industries Employing Radiologic Technology

Industry	Occupation Group Jobs in Industry (2016)	% of Occupation Group in Industry (2016)	% of Total Jobs in Industry (2016)
General Medical and Surgical Hospitals	575	42.0%	1.9%
Offices of Physicians (except Mental Health Specialists)	199	14.5%	1.2%
Hospitals (Local Government)	144	10.5%	1.8%
HMO Medical Centers	132	9.7%	1.5%
Medical Laboratories	107	7.8%	5.9%

In an average month, there were 159 unique (internet) job postings for Radiologic Technology jobs, and 31 actually hired from January 2016 to August 2016. This means there was approximately 1 hire for every 5 unique (internet) job postings for occupations in Radiologic Technology.

Job Postings vs. Hires

159	31
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)
Radiologic Technologists	127	27
Magnetic Resonance Imaging Technologists	32	4

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

Concentrated Hard Skills

Skill	Concentration Score	Postings with Skill
Fluoroscopy	260.48	421
Percutaneous Vertebroplasty	119.66	26
Diagnostic Radiology	108.29	191
Radiology	67.43	819
Field Of View	52.99	4

Concentrated Soft Skills

Skill	Concentration Score	Postings with Skill
Body Language	0.36	4
Critical Thinking	0.19	59
Leading	0.07	125
Active Listening	0.05	6
Scheduling (Project Management)	0.04	338

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