

Program Endorsement Brief: 1225.00 – Radiologic Technology

Los Angeles/Orange County Center of Excellence, June 2021

Summary Analysis

Program Endorsement:	Endorsed: All Criteria Met <input type="checkbox"/>	Endorsed: Some Criteria Met <input checked="" type="checkbox"/>	Not Endorsed <input type="checkbox"/>
Program Endorsement Criteria			
Supply Gap:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/> (see comments below)	
Living Wage: (Entry-Level, 25th)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Education:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Emerging Occupation(s)			
Yes <input type="checkbox"/>		No <input checked="" type="checkbox"/>	

The Los Angeles/Orange County Center of Excellence for Labor Market Research (COE) prepared this report to provide Los Angeles/Orange County regional labor market supply and demand data related to one middle-skill occupation: *radiologic technologists and technicians* (29-2034). Middle-skill occupations typically require some postsecondary education, but less than a bachelor’s degree.¹ This report is intended to help determine whether there is demand in the local labor market that is not being met by the supply from community college programs that align with the relevant occupation.

Based on the available data, there does not appear to be a supply gap for *radiologic technologists and technicians* in the region. However, the oversupply is within the COE’s acceptable margin (25% over or under the number of annual job openings) and is therefore considered “supply met” rather than a “supply gap.” In addition to *radiologic technologists and technicians* typically requiring an associate degree, entry-level wages exceed the living wage in Los Angeles County. **Therefore, due to some of the criteria being met, the COE endorses this proposed program.** Detailed reasons include:

Demand:

- **Supply Gap Criteria** – Over the next five years, there is projected to be **372 jobs available annually** in the region due to new job growth and replacements, **which is less than the 409 awards conferred annually** by educational institutions in the region.

¹ The COE classifies middle-skill jobs as the following:

- All occupations that require an educational requirement of some college, associate degree or apprenticeship;
- All occupations that require a bachelor’s degree, but also have more than one-third of their existing labor force with an educational attainment of some college or associate degree; or
- All occupations that require a high school diploma or equivalent or no formal education, but also require short- to long-term on-the-job training where multiple community colleges have existing programs.

- The oversupply is within the COE’s acceptable margin (25% over or under the number of annual job openings) and is therefore considered “supply met” rather than a “supply gap.”
- **Living Wage Criteria** – In Los Angeles County, the **typical entry-level hourly wage for radiologic technologists and technicians is \$32.29, which is higher than the California Family Needs Calculator** hourly wage (living wage) for one adult (\$15.04 in Los Angeles County).²
- **Educational Criteria** – The Bureau of Labor Statistics (BLS) lists an associate degree as the typical entry-level education for *radiologic technologists and technicians* (29-2034).
 - National-level educational attainment data indicates **67% of workers in the field have completed some college or an associate degree.**

Supply:

- Between 2017 and 2020, **seven community colleges** in the LA/OC region conferred **an average of 262 awards in radiologic technology.**
- Between 2016 and 2019, non-community college institutions **in the region conferred an average of 147 awards in related training program(s).**

Occupational Demand

Exhibit 1 shows the five-year occupational demand projections for *radiologic technologists and technicians*. In Los Angeles/Orange County, the number of jobs related to this occupation is projected to increase by 6% through 2024. There will be approximately 372 job openings per year through 2024 due to job growth and replacements.

This report includes employment projection data by Emsi which uses EDD information. Emsi’s projections are modeled on recorded (historical) employment figures and incorporate several underlying assumptions, including the assumption that the economy, during the projection period, will be at approximately full employment. To the extent that a recession or labor shock, such as the economic effects of COVID-19, can cause long-term structural change, it may impact the projections. At this time, it is not possible to quantify the impact of COVID-19 on projections of industry and occupational employment. Therefore, the projections included in this report do not take the impacts of COVID-19 into account.

² Living wage data was pulled from California Family Needs Calculator on 7/1/2021. For more information, visit the California Family Needs Calculator website: <https://insightcced.org/2018-family-needs-calculator/>.

Exhibit 1: Occupational demand in Los Angeles and Orange Counties³

Geography	2019 Jobs	2024 Jobs	2019-2024 Change	2019-2024 % Change	Annual Openings
Los Angeles	4,607	4,867	260	6%	280
Orange	1,430	1,531	102	7%	92
Total	6,036	6,398	362	6%	372

Wages

The labor market endorsement in this report considers the hourly wages for *radiologic technologists and technicians* in Los Angeles County, as they relate to the county’s living wage. Orange County wages are included below in order to provide a complete analysis of the LA/OC region. Detailed wage information, by county, is included in Appendix A.

Los Angeles County – The typical entry-level hourly wage for *radiologic technologists and technicians* is \$32.29, which is above the living wage for one adult (\$15.04 in Los Angeles County). Experienced workers can expect to earn approximately \$48.69/hour, which is also higher than the living wage estimate.

Orange County – The typical entry-level hourly wage for *radiologic technologists and technicians* is \$31.86, which is above the living wage for one adult (\$17.36 in Orange County). Experienced workers can expect to earn approximately \$48.12/hour, which is also higher than the living wage estimate.

Job Postings

Over the past 12 months, there have been 1,450 online job postings for *radiologic technologists and technicians*. The highest number of job postings were for travel radiology technician/x-ray, mammography technician, and radiologic technician. The top skills were radiology, radiologic technology, and x-rays. The top employers, by number of job postings, in the region were Healthcare Traveler Allied Health, Radnet, and Memorial Care Health System.

It is important to note that the job postings data included in this section reflects online job postings listed in the past 12 months and does not yet demonstrate the impact of COVID-19. While employers have generally posted fewer online job postings since the beginning of the pandemic, the long-term effects are currently unknown.

³ Five-year change represents new job additions to the workforce. Annual openings include new jobs and replacement jobs that result from retirements and separations.

Educational Attainment

The Bureau of Labor Statistics (BLS) lists an associate degree as the typical entry-level education for *radiologic technologists and technicians* (29-2034). Furthermore, national-level educational attainment data indicates 67% of workers in the field have completed some college or an associate degree. Of the 44% of job postings listing a minimum education requirement in Los Angeles/Orange County, 94% (604) requested an associate degree, and 6% (36) requested a bachelor's degree.

Educational Supply

Community College Supply – Exhibit 2 shows the annual and three-year average number of awards conferred in Radiologic Technology (1 225.00). The colleges with the most completions in the region are Cypress, LA City, and Mt. San Antonio. Over the past 12 months, there were no other related program recommendation requests from regional community colleges.

Exhibit 2: Regional community college awards (certificates and degrees), 2017-2020

TOP	Program	Colleges	2017-18 Awards	2018-19 Awards	2019-20 Awards	3-Year Average
1 225.00	Radiologic Technology	El Camino	20	20	1	14
		LA City	91	63	39	64
		Long Beach	43	23	28	31
		Mt San Antonio	28	37	38	34
		Pasadena	25	29	19	24
		LA Subtotal	207	172	125	168
		Cypress	66	78	71	72
		Orange Coast	23	21	23	22
		OC Subtotal	89	99	94	94
		Supply Total/Average			296	271

Non-Community College Supply – It is important to consider the supply from non-community college institutions in the region that provide training programs for radiologic technology. Exhibit 3 shows the annual and three-year average number of awards conferred by these institutions in the related Classification of Instructional Programs (CIP) Code: 51.0911 – Radiologic Technology/ Science Radiographer. Due to different data collection periods, the most recent three-year period of available data is from 2016 to 2019. Between 2016 and 2019, non-community college institutions in the region conferred an average of 147 awards.

Exhibit 3: Regional non-community college awards, 2016-2019

CIP	Program	Institution	2016-17 Awards	2017- 18 Awards	2018- 19 Awards	3-Year Average
51.0911	Radiologic Technology/ Science Radiographer	California State University-Northridge	24	27	23	25
		Career Care Institute	42	35	45	41
		Charles R Drew University of Medicine and Science	43	18	28	30
		Modern Technology School	50	42	64	52
Supply Total/Average			159	122	160	147

Appendix A: Occupational demand and wage data by county

Exhibit 4. Los Angeles County

Occupation (SOC)	2019 Jobs	2024 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Entry-Level Hourly Earnings (25 th Percentile)	Median Hourly Earnings	Experienced Hourly Earnings (75 th Percentile)
Radiologic Technologists and Technicians (29-2034)	4,607	4,867	260	6%	280	\$32.29	\$39.56	\$48.69
Total	4,607	4,867	260	6%	280			

Exhibit 5. Orange County

Occupation (SOC)	2019 Jobs	2024 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Entry-Level Hourly Earnings (25th Percentile)	Median Hourly Earnings	Experienced Hourly Earnings (75th Percentile)
Radiologic Technologists and Technicians (29-2034)	1,430	1,531	102	7%	92	\$31.86	\$39.07	\$48.12
Total	1,430	1,531	102	7%	92			

Exhibit 6. Los Angeles and Orange Counties

Occupation (SOC)	2019 Jobs	2024 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Typical Entry-Level Education
Radiologic Technologists and Technicians (29-2034)	6,036	6,398	362	6%	372	Associate degree
Total	6,036	6,398	362	6%	372	

Appendix B: Sources

- O*NET Online
- Labor Insight/Jobs (Burning Glass)
- Economic Modeling Specialists, International (Emsi)
- Bureau of Labor Statistics (BLS)
- Employment Development Department, Labor Market Information Division, OES
- California Community Colleges Chancellor’s Office Management Information Systems (MIS)
- California Family Needs Calculator, Insight Center for Community Economic Development
- Chancellor’s Office Curriculum Inventory (COCI 2.0)

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