

**Labor Market Analysis: 1225.00 – Radiologic Technology**  
**Limited Permit X-Ray Technician (Certificate requiring 30 to <60 units)**  
 Los Angeles Center of Excellence, September 2022

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**Summary**

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

The Los Angeles Center of Excellence for Labor Market Research (LA COE) prepared this report to provide regional labor market supply and demand data related to one middle-skill occupation:

- **Radiologic Technologists and Technicians (29-2034):** Take x-rays and CAT scans or administer nonradioactive materials into patient’s bloodstream for diagnostic or research purposes. Includes radiologic technologists and technicians who specialize in other scanning modalities.<sup>1</sup>

Middle-skill occupations typically require some postsecondary education, but less than a bachelor’s degree.<sup>2</sup> 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 appears to be a supply gap in the region for *radiologic technologists and technicians*. In addition to *radiologic technologists and technicians* having an entry-level wage that exceeds the self-sufficiency standard wage in both Los Angeles and Orange counties, more than two-thirds of current workers in the field have completed some college or an associate degree. **Therefore, due to all of the criteria being met, the LA COE endorses this proposed program.** Detailed reasons include:

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<sup>1</sup> [Radiologic Technologists and Technicians \(bls.gov\)](#)

<sup>2</sup> 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.

**Demand:**

- **Supply Gap Criteria** – Over the next five years, **587 jobs are projected to be available annually** in the region due to new job growth and replacements, **which is more than the three-year average of 458 awards conferred** by educational institutions.
- **Living Wage Criteria** – In Los Angeles County, the **typical entry-level hourly wage** for *radiologic technologists and technicians* is **\$29.77, which is above the self-sufficiency standard wage** for one adult in the region (\$18.10 in Los Angeles County).<sup>3</sup>
- **Educational Criteria** – The Bureau of Labor Statistics (BLS) lists an **associate degree** as the **typical entry-level education** for *radiologic technologists and technicians*.
  - National-level educational attainment data indicates that **68% of workers in the field have completed some college or an associate degree.**

**Supply:**

- Between 2018 and 2021, **7 community colleges** in the LA/OC region issued awards in radiologic technology, conferring an average of **205 awards**.
- Between 2017 and 2020, non-community college institutions in the LA/OC region conferred an average of **253 awards in relevant programs**.

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<sup>3</sup> Self-Sufficiency Standard wage data was pulled from The Self-Sufficiency Standard Tool for California. For more information, visit: <http://selfsufficiencystandard.org/california>.

## Occupational Demand

Exhibit 1 shows the five-year occupational demand projections for *radiologic technologists and technicians*. In the greater Los Angeles/Orange County region, the number of jobs related to this occupation is projected to increase by 6% through 2026. There will be nearly 600 job openings per year through 2026 due to job growth and replacements.

**Exhibit 1: Occupational demand in Los Angeles and Orange Counties<sup>4</sup>**

Geography	2021 Jobs	2026 Jobs	2021-2026 Change	2021-2026 % Change	Annual Openings
Los Angeles	5,203	5,478	275	5%	429
Orange	1,706	1,869	163	10%	157
<b>Total</b>	<b>6,909</b>	<b>7,346</b>	<b>437</b>	<b>6%</b>	<b>587</b>

## 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 self-sufficiency standard 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 \$29.77, which is **above** the self-sufficiency standard wage for one adult (\$18.10 in Los Angeles County). Experienced workers can expect to earn approximately \$48.65.

**Exhibit 2: Hourly Earnings for Occupations in Los Angeles County**

Occupation	Entry-Level Hourly Earnings (25 <sup>th</sup> Percentile)	Median Hourly Earnings	Experienced Hourly Earnings (75 <sup>th</sup> Percentile)
Radiologic Technologists and Technicians (29-2034)	\$29.77	\$38.99	\$48.65

**Orange County** – The typical entry-level hourly wage for *radiologic technologists and technicians* is \$29.60, which is **above** the self-sufficiency standard wage for one adult (\$20.63 in Orange County). Experienced workers can expect to earn approximately \$48.43.

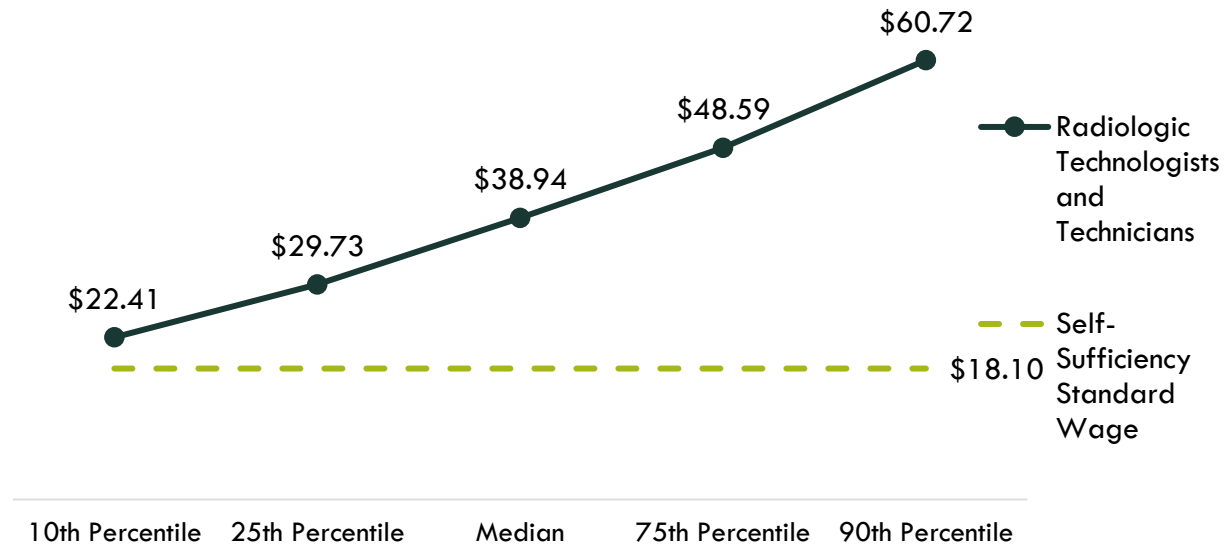
**Exhibit 3: Hourly Earnings for Occupations in Orange County**

Occupation	Entry-Level Hourly Earnings (25 <sup>th</sup> Percentile)	Median Hourly Earnings	Experienced Hourly Earnings (75 <sup>th</sup> Percentile)
Radiologic Technologists and Technicians (29-2034)	\$29.60	\$38.79	\$48.43

<sup>4</sup> Five-year change represents new job additions to the workforce. Annual openings include new jobs and replacement jobs that result from retirements and separations.

The entry-level earning for *radiologic technologists and technicians* is \$29.73; this is above the self-sufficiency standard wage for one single adult in Los Angeles County (\$18.10). Exhibit 4 shows the average wages for the occupation of interest, from entry-level to experienced workers.

**Exhibit 4: Average Hourly Earnings for Radiologic Technologists and Technicians in LA/OC**



### Job Postings

Over the past 12 months, there have been 2,571 online job postings for *radiologic technologists and technicians*. The highest number of job postings were for radiology technicians, radiologic technologists, radiology technologists, mammography technologists, and mammography technicians. The top skills were radiology, radiologic technology, x-rays, patient care, and mammography. The top employers, by number of job postings, in the region were RadNet, Cedars-Sinai, and Concentra.

### Educational Attainment

The Bureau of Labor Statistics (BLS) lists an associate degree as the typical entry-level education for *radiologic technologists and technicians*. National-level educational attainment data indicates that 68% of workers in the field have completed some college or an associate degree.

## Educational Supply

**Community College Supply** – Exhibit 5 shows the annual and three-year average number of awards conferred by community colleges in Radiologic Technology (TOP 1225.00). The colleges with the most completions in the region are Cypress, LA City, and Mt. San Antonio.

**Exhibit 5: Regional community college awards (certificates and degrees), 2018-2021**

TOP	Program	College	2018-19 Awards	2019-20 Awards	2020-21 Awards	3-Year Average
1225.00	Radiologic Technology	El Camino	20	1	-	7
		LA City	63	39	27	43
		Long Beach	23	28	25	25
		Mt San Antonio	37	38	27	34
		Pasadena	29	19	15	21
		<b>LA Subtotal</b>	<b>172</b>	<b>125</b>	<b>94</b>	<b>130</b>
		Cypress	78	71	8	52
		Orange Coast	21	23	22	22
		<b>OC Subtotal</b>	<b>99</b>	<b>94</b>	<b>30</b>	<b>74</b>
		<b>Supply Total/Average</b>			<b>271</b>	<b>219</b>

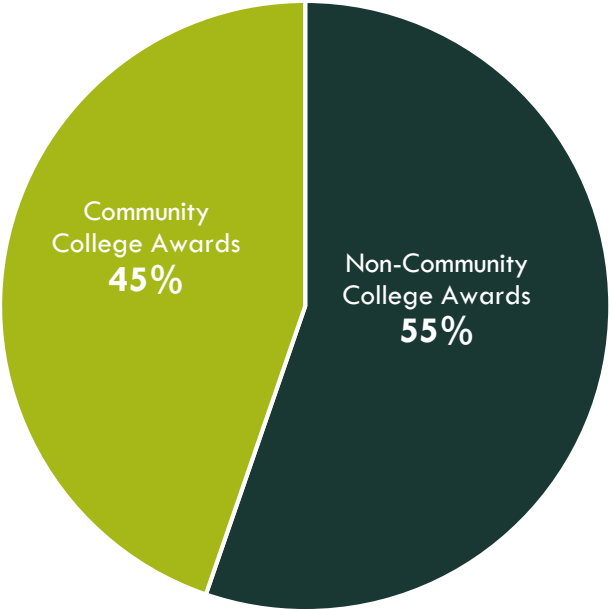
**Non-Community College Supply** – For a comprehensive regional supply analysis, it is important to consider the supply from other institutions in the region that may provide training programs for *radiologic technologists and technicians*. Exhibit 6 shows the annual and three-year average number of awards conferred in relevant programs. Due to different data collection periods, the most recent three-year period of available data is from 2017 to 2020. Between 2017 and 2020, non-community college institutions in the region conferred an average of 253 awards.

**Exhibit 6: Regional non-community college awards, 2017-2020**

CIP	Program	Institution	2017-18 Awards	2018-19 Awards	2019-20 Awards	3-Year Average
51.0907	Medical Radiologic Technology/Science - Radiation Therapist	West Coast Ultrasound Institute	127	124	74	108
51.0911	Radiologic Technology/Science - Radiographer	CSU-Northridge	27	23	24	25
		Career Care Institute	35	45	52	44
		Charles R Drew University of Medicine and Science	18	28	26	24
		Modern Technology School	42	64	50	52
<b>Supply Total/Average</b>			<b>249</b>	<b>284</b>	<b>226</b>	<b>253</b>

Exhibit 7 shows the relationship between the number of community college awards conferred in LA/OC versus the number of non-community college awards for the programs in this report. More than half of all awards conferred were by non-community colleges in the LA/OC region.

**Exhibit 7: Community College Awards Compared to Non-Community College Awards in LA/OC Region, 3-Year Average**



**Appendix A: Occupational demand and wage data by county**

**Exhibit 8. Los Angeles County**

<b>Occupation (SOC)</b>	<b>2021 Jobs</b>	<b>2026 Jobs</b>	<b>5-Yr Change</b>	<b>5-Yr % Change</b>	<b>Annual Openings</b>	<b>Entry-Level Hourly Earnings (25<sup>th</sup> Percentile)</b>	<b>Median Hourly Earnings</b>	<b>Experienced Hourly Earnings (75<sup>th</sup> Percentile)</b>
Radiologic Technologists and Technicians (29-2034)	5,203	5,478	275	5%	429	\$29.77	\$38.99	\$48.65

**Exhibit 9. Orange County**

<b>Occupation (SOC)</b>	<b>2021 Jobs</b>	<b>2026 Jobs</b>	<b>5-Yr Change</b>	<b>5-Yr % Change</b>	<b>Annual Openings</b>	<b>Entry-Level Hourly Earnings (25<sup>th</sup> Percentile)</b>	<b>Median Hourly Earnings</b>	<b>Experienced Hourly Earnings (75<sup>th</sup> Percentile)</b>
Radiologic Technologists and Technicians (29-2034)	1,706	1,869	163	10%	157	\$29.60	\$38.79	\$48.43

**Exhibit 10. Los Angeles and Orange Counties**

<b>Occupation (SOC)</b>	<b>2021 Jobs</b>	<b>2026 Jobs</b>	<b>5-Yr Change</b>	<b>5-Yr % Change</b>	<b>Annual Openings</b>	<b>Typical Entry-Level Education</b>
Radiologic Technologists and Technicians (29-2034)	6,909	7,346	437	6%	587	Associate degree

## Appendix B: Sources

- O\*NET Online
- Labor Insight (Burning Glass Technologies)
- Lightcast (formerly Emsi)
- Bureau of Labor Statistics (BLS)
- California Employment Development Department, Labor Market Information Division, OES
- California Community Colleges Chancellor's Office Management Information Systems (MIS)
- Self-Sufficiency Standard at the Center for Women's Welfare, University of Washington
- Chancellor's Office Curriculum Inventory (COCI 2.0)

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