



## Labor Market Analysis: 1225.00 – Radiologic Technology Computed Tomography— Certificate requiring 16 to fewer than 30 semester units

Los Angeles Center of Excellence, August 2025

|                                                        |                                                                           |                                                                 |                                                  |
|--------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------|
| <b>Program Endorsement:</b>                            | <b>Endorsed:<br/>All Criteria Met</b> <input checked="" type="checkbox"/> | <b>Endorsed:<br/>Some Criteria Met</b> <input type="checkbox"/> | <b>Not<br/>Endorsed</b> <input type="checkbox"/> |
| <b>Program Endorsement Criteria</b>                    |                                                                           |                                                                 |                                                  |
| <b>Supply Gap:</b>                                     | Yes <input checked="" type="checkbox"/> (See below)                       | No <input type="checkbox"/>                                     |                                                  |
| <b>Living Wage:<br/>(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"/>                          |                                                  |

### SUMMARY

This report analyzes whether local labor market demand is being met by community college programs aligned with the identified middle-skill occupation<sup>1</sup> or whether a shortage of workers exists. Labor market demand is measured by annual job openings while education supply is measured by the number of awards (degrees and certificates) conferred on average each year.

Based on the available data, the talent supply is within the COE's acceptable margin (the number of awards issued is 25% over or under the number of annual openings) and is therefore considered "supply met" rather than a "supply gap." There may be demand for these workers from local employers that is not reflected in traditional labor market data. For this reason, real-time labor market data is included in this report as well – to provide a more nuanced view of the regional job market for *radiology technologists and technicians*. Furthermore, entry-level wages exceed the self-sufficiency standard wage in both Los Angeles and Orange counties, and the Bureau of Labor Statistics (BLS) lists and associate degree as the typical entry-level education level.

**Recommendation:** Due to all three program endorsement criteria being met, the Los Angeles Center of Excellence for Labor Market Research (LA COE) endorses this proposed program.

<sup>1</sup> Middle-skill occupations typically require some postsecondary education, but less than a bachelor's degree. 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.

## Key Findings

### Supply Gap

- 481 annual job openings are projected in the region through 2028. This number is greater than the three-year average of 430 awards conferred by educational institutions in the region.
  - The data suggests that the ***demand has been met for this occupation within the LA/OC region*** since the three-year average number of awards (supply) is within the COE's 25% margin of annual job openings (demand).
  - However, over the past 12 months, there were **5,154 online job postings for radiologic technologists and technicians**, likely indicating greater demand for this job than is captured by traditional labor market data. The highest number of job postings were for radiology technologists, computed tomography technologists, x-ray technicians, mammography technologists, and lead CT technologists.

### Living Wage

- \$28.33 is the typical entry-level hourly wages for *radiologic technologists and technicians*, which is higher than Los Angeles County's self-sufficiency standard hourly (\$24.03/hour).<sup>2</sup>

### Educational Attainment

- An associate degree is the typical entry-level education for *radiologic technologists and technicians*, according to the Bureau of Labor Statistics (BLS).
- 66% of workers in the field have completed some college or an associate degree, according to national educational attainment data.

### Community college supply

- 7 community colleges issued awards related to radiologic technology in the greater LA/OC region.
- 279 awards (degrees and certificates) were conferred on average each year between 2022 and 2024.

### Other postsecondary supply

- 5 educational institutions in the LA/OC region have conferred awards in programs related to radiologic technology over the past three years.
- 151 awards were conferred on average each year by other postsecondary institutions throughout the greater LA/OC region between 2021 and 2023.

## TARGET OCCUPATION

LA COE prepared this report to provide regional labor market and postsecondary supply 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

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<sup>2</sup> Center for Women's Welfare, University of Washington. (2024). *The self-sufficiency standard for California 2024*. <http://selfsufficiencystandard.org/California>.

purposes. Includes radiologic technologists and technicians who specialize in other scanning modalities.<sup>3</sup>

## 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 5% through 2028. There will be nearly 500 job openings per year through 2028 due to job growth and replacements. The majority of jobs in 2023 for *radiologic technologists and technicians* (75%) were located in Los Angeles County.

**Exhibit 1: Current employment and occupational demand, Los Angeles and Orange counties<sup>4</sup>**

| Geography    | 2023 Jobs    | 2028 Jobs    | 2023-2028 Change | 2023-2028 % Change | Annual Openings |
|--------------|--------------|--------------|------------------|--------------------|-----------------|
| Los Angeles  | 5,658        | 5,913        | 254              | 4%                 | 351             |
| Orange       | 1,920        | 2,059        | 139              | 7%                 | 130             |
| <b>Total</b> | <b>7,579</b> | <b>7,972</b> | <b>393</b>       | <b>5%</b>          | <b>481</b>      |

## Detailed Occupation Data

Exhibit 2 displays the current employment and projected occupational demand for the target occupation in Los Angeles County. Positive scores for automation resilience<sup>5</sup> reflect a lower-than-average threat of the occupation(s) being replaced by automation, while negative scores reflect a greater-than-average risk of automation. The average percentage of workers aged 55+ across all occupations in the Los Angeles/Orange County region is 26%; occupations with a larger share of workers aged 55 and older typically have greater replacement needs to offset the amount of impending retirements. On average, 81% of workers across all occupations in California are employed full-time.

**Exhibit 2: Detailed employment and occupational demand, Los Angeles County<sup>6</sup>**

| Occupation                               | 2023 Jobs | 2028 Jobs | 5-Yr % Change | Annual Openings | Auto-mation Resilience | % Aged 55 and older | % Full Time Workers |
|------------------------------------------|-----------|-----------|---------------|-----------------|------------------------|---------------------|---------------------|
| Radiologic Technologists and Technicians | 5,658     | 5,913     | 4%            | 351             | 5.9                    | 20%                 | 100%                |

<sup>3</sup> [Radiologic and MRI Technologists \(bls.gov\)](https://www.bls.gov)

<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.

<sup>5</sup> Automation risk is calculated based on the percentage of time spent on high-risk compared to low-risk work, the number of high-risk jobs in compatible occupations, and the overall industry automation risk.

<sup>6</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.

## WAGES

The labor market endorsement in this report considers the entry-level 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 greater Los Angeles/Orange County region.

### Los Angeles County

The typical entry-level hourly wages for *radiologic technologists and technicians* are \$28.33, which is above the self-sufficiency standard wage for one adult (\$24.03 in Los Angeles County). Experienced workers can expect to earn wages of \$54.96 (Exhibit 3).

**Exhibit 3: Earnings for occupation in Los Angeles County**

| Occupation                               | Entry-Level<br>Hourly Earnings<br>(25 <sup>th</sup> Percentile) | Median<br>Hourly<br>Earnings | Experienced<br>Hourly Earnings<br>(75 <sup>th</sup> Percentile) | Median<br>Annual<br>Earnings* |
|------------------------------------------|-----------------------------------------------------------------|------------------------------|-----------------------------------------------------------------|-------------------------------|
| Radiologic Technologists and Technicians | \$28.33                                                         | \$43.36                      | \$54.96                                                         | \$90,200                      |

\*Rounded to the nearest \$100

### Orange County

The typical entry-level hourly wages for *radiologic technologists and technicians* are \$28.75, which is above the self-sufficiency standard wage for one adult (\$27.13 in Orange County). Experienced workers can expect to earn wages of \$55.77 (Exhibit 4).

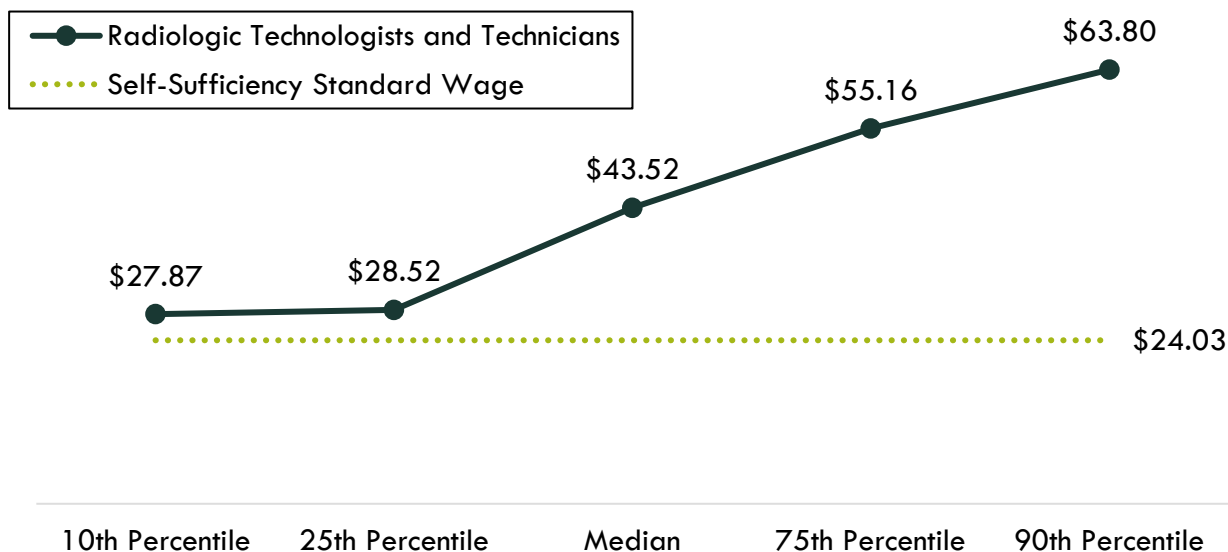
**Exhibit 4: Earnings for occupation in Orange County**

| Occupation                               | Entry-Level<br>Hourly Earnings<br>(25 <sup>th</sup> Percentile) | Median<br>Hourly<br>Earnings | Experienced<br>Hourly Earnings<br>(75 <sup>th</sup> Percentile) | Median<br>Annual<br>Earnings* |
|------------------------------------------|-----------------------------------------------------------------|------------------------------|-----------------------------------------------------------------|-------------------------------|
| Radiologic Technologists and Technicians | \$28.75                                                         | \$43.98                      | \$55.77                                                         | \$91,500                      |

\*Rounded to the nearest \$100

Across the greater Los Angeles and Orange County region, the average entry-level hourly earnings for the occupation in this report are \$28.52; this is above the living wage for one single adult in Los Angeles County (\$24.03). Exhibit 5 shows the average hourly wage for the occupation in this report, for entry-level to experienced workers.

**Exhibit 5: Average hourly earnings for radiologic technologists and technicians, Los Angeles and Orange counties**



## JOB POSTINGS

There were 5,154 online job postings related to *radiologic technologists and technicians* listed in the past 12 months in Los Angeles and Orange counties. Job postings were analyzed for the most common job titles, skills, and employers associated with the target occupation in this report (Exhibit 6).

**Exhibit 6: Most commonly requested job titles, skills and employers in job postings, Los Angeles and Orange counties**

| Top Job Titles                                                                                                                                                                                                                                                                        | Top Skills                                                                                                                                                                                                                                                     | Top Employers                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Radiologic technologists</li> <li>• Computed tomography technologists</li> <li>• X-ray technicians</li> <li>• Mammography technologists</li> <li>• Lead CT technologists</li> <li>• Travel interventional radiology technologists</li> </ul> | <ul style="list-style-type: none"> <li>• Radiology</li> <li>• Radiography</li> <li>• Fluoroscopy</li> <li>• X-ray computed tomography</li> <li>• Mammography</li> <li>• Patient positioning</li> <li>• Radiation protection</li> <li>• Venipuncture</li> </ul> | <ul style="list-style-type: none"> <li>• University of California</li> <li>• Providence</li> <li>• Fusion Medical Staffing*</li> <li>• RadNet</li> <li>• Aya Healthcare*</li> <li>• Cedars-Sinai</li> <li>• Kaiser Permanente</li> <li>• Hoag Health System</li> <li>• PIH Health</li> </ul> |

\*Staffing company

In the greater Los Angeles/Orange County region, 21% of the *radiologic technologists and technicians* job postings listed a minimum educational requirement. Exhibit 7 details the number and percentage of job postings by educational level.

**Exhibit 7: Education levels requested in job postings for radiologic technologists and technicians, Los Angeles and Orange counties**

| Education Level                            | Job Postings | % of Job Postings |
|--------------------------------------------|--------------|-------------------|
| Bachelor's degree                          | 49           | 4%                |
| Associate degree                           | 503          | 46%               |
| High school diploma or vocational training | 541          | 49%               |

## EDUCATIONAL ATTAINMENT

The Bureau of Labor Statistics (BLS) lists an associate degree as the typical entry-level education for *radiologic technologists and technicians* (Exhibit 8). Furthermore, the national-level data indicates 66% of workers in the field have completed some college or an associate degree as their highest level of educational attainment. The Bureau of Labor Statistics (BLS) lists the following typical entry-level education levels for the occupation in this report:

**Exhibit 8: Entry-level education preferred by employers nationally, Bureau of Labor Statistics**

| Occupation                               | Education Level  |
|------------------------------------------|------------------|
| Radiologic technologists and technicians | Associate degree |

## EDUCATIONAL SUPPLY

### Community College Supply

Exhibit 9 shows the annual and three-year average number of awards conferred by community colleges in the related TOP code: Radiologic Technology (1225.00), while Exhibit 10 shows the breakdown of award type. The colleges with the most completions in the region are Cypress, Orange Coast, and Mt. San Antonio.

**Exhibit 9: Regional community college awards (certificates and degrees), 2022-2024**

| TOP Code             | Program               | College        | 2021-22 Awards | 2022-23 Awards | 2023-24 Awards | 3-Year Average |
|----------------------|-----------------------|----------------|----------------|----------------|----------------|----------------|
| 1225.00              | Radiologic Technology | El Camino      | 19             | 23             | 17             | 20             |
|                      |                       | LA City        | 20             | 12             | 19             | 17             |
|                      |                       | Long Beach     | 45             | 48             | 33             | 42             |
|                      |                       | Mt San Antonio | 51             | 43             | 38             | 44             |
|                      |                       | Pasadena       | 13             | 45             | 23             | 27             |
|                      |                       | LA Subtotal    | 148            | 171            | 130            | 150            |
|                      |                       | Cypress        | 84             | 75             | 78             | 79             |
|                      |                       | Orange Coast   | 1              | 39             | 110            | 50             |
|                      |                       | OC Subtotal    | 85             | 114            | 188            | 129            |
| Supply Total/Average |                       |                | 233            | 285            | 318            | 279            |

**Exhibit 10: Regional community college awards by award type, 2022-2024**

| Award Type        | # of Awards | % of Awards |
|-------------------|-------------|-------------|
| A.A./A.S. degrees | 157         | 56%         |
| Certificates      | 121         | 44%         |
|                   | <b>279</b>  | <b>100%</b> |

**Other Postsecondary Supply**

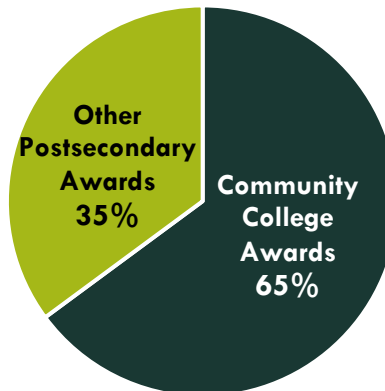
For a comprehensive regional supply analysis, it is important to consider the supply from other institutions in the region that provide training programs for *radiologic technologists and technicians*. Exhibit 11 shows the number of awards conferred by these institutions in relevant programs. Due to different data collection periods, the most recent data is from 2021 to 2023. Between 2021 and 2023, other postsecondary college institutions in the region conferred an average of 151 sub-baccalaureate awards. Sub-baccalaureate awards include associate degrees, postsecondary awards, and other academic awards that typically take fewer than four years to complete.

**Exhibit 11: Other regional postsecondary awards, 2021-2023**

| CIP Code             | Program                                                      | Postsecondary Institution                  | 2020-21 Awards | 2021-22 Awards | 2022-23 Awards | 3-Year Average |
|----------------------|--------------------------------------------------------------|--------------------------------------------|----------------|----------------|----------------|----------------|
| 51.0907              | Medical Radiologic Technology/ Science - Radiation Therapist | Smith Chason College                       | 68             | -              | -              | 23             |
| 51.0911              | Radiologic Technology/ Science - Radiographer                | American Career College-Anaheim            | -              | -              | 41             | 14             |
|                      |                                                              | American Career College-LA                 | 35             | 35             | 27             | 32             |
|                      |                                                              | Charles R Drew Univ. of Medicine & Science | 27             | 22             | 32             | 27             |
|                      |                                                              | Modern Technology School                   | 43             | 61             | 61             | 55             |
| Supply Total/Average |                                                              |                                            | 173            | 118            | 161            | 151            |

Exhibit 12 shows the proportion of community college awards conferred in the greater Los Angeles/Orange County region compared to the number of other postsecondary awards for the programs in this report. The majority of awards conferred in these programs are awarded by community colleges in the greater Los Angeles/Orange County region.

**Exhibit 12: Percentage of community college awards compared to other postsecondary institution awards in the Los Angeles/Orange County region**



## Certifications

In order to become a Computed Tomography (CT) technologist in California, workers must:

- Earn an associate degree or higher in an approved radiologic technology program;
- Become certified by the American Registry of Radiologic Technologists (AART)<sup>7</sup> or the Nuclear Medicine Technology Certification Board (NMTCB);<sup>8</sup> and
- Complete the post-primary certification for Computed Tomography (CT).

To earn post-primary credentials in CT, workers must first be certified and registered in radiography, nuclear medicine technology, or radiation therapy. The post-primary certification can be earned through AART or NMTCB, and includes an exam, clinical hours and contact hours. Recent passing rates for the CT exam are listed in Exhibit 13. More information on the computed tomography (CT) requirements can be found on the AART<sup>9</sup> and NMTCB<sup>10</sup> websites.

**Exhibit 13: Certified Tomography (CT) Information and Exam Pass Rates,<sup>11,12</sup>**

| Organization                                            | Certification/<br>Credential Name | Radiation Therapy<br>Certification Exam<br>Pass Rates<br>(total taking exam) |                |
|---------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------|----------------|
|                                                         |                                   | 2023                                                                         | 2024           |
| American Registry of Radiologic Technologists (AART)    | Computed Tomography (CT)          | 73%<br>(6,022)                                                               | 74%<br>(6,606) |
| Nuclear Medicine Technology Certification Board (NMTCB) | NMTCB(CT)                         | 69%<br>(161)                                                                 | 69%<br>(171)   |

<sup>7</sup> [Computed Tomography - ARRT](#)

<sup>8</sup> [Computed Tomography - NMTCB](#)

<sup>9</sup> [Computed Tomography - ARRT](#)

<sup>10</sup> [Computed Tomography - NMTCB](#)

<sup>11</sup> [Exam Statistics - ARRT](#)

<sup>12</sup> [Computed Tomography Exam Annual Reports - Computed Tomography - Exams | NMTCB](#)

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**DATA SOURCES**

POWERED BY



- O\*NET Online
- 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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