

Radiologic Technologists

Labor Market Analysis: San Diego County

June 2019

Summary

- Do not Proceed
- Proceed with Caution
- Proceed

**PROCEED WITH
NEW PROGRAM?**



**SUPPLY
GAP?**



**AT OR ABOVE
THE LIVING WAGE**

- High
- Medium
- Low

**NUMBER OF
INSTITUTIONS THAT
PROVIDE TRAINING**

- High
- Medium
- Low

**NUMBER OF ANNUAL
JOB OPENINGS**

- Bachelor's Degree+
- Associate Degree
- Some College or Certificate
- High School Diploma or Equivalent
- Less than a HS Diploma
- Apprenticeship

**EXPECTED LEVEL
OF EDUCATION**

According to available labor market information, *Radiologic Technologists* have a labor market demand of 116 annual job openings, while average demand for an occupation in San Diego County is 277 annual job openings. Two educational institutions in San Diego County supply 64 awards for this occupation, suggesting that there is a supply gap. This occupation's entry-level and median wages are above than the Self-Sufficiency Standard, suggesting that students who successfully complete a program and obtain employment in a related field may earn a living wage.

Introduction

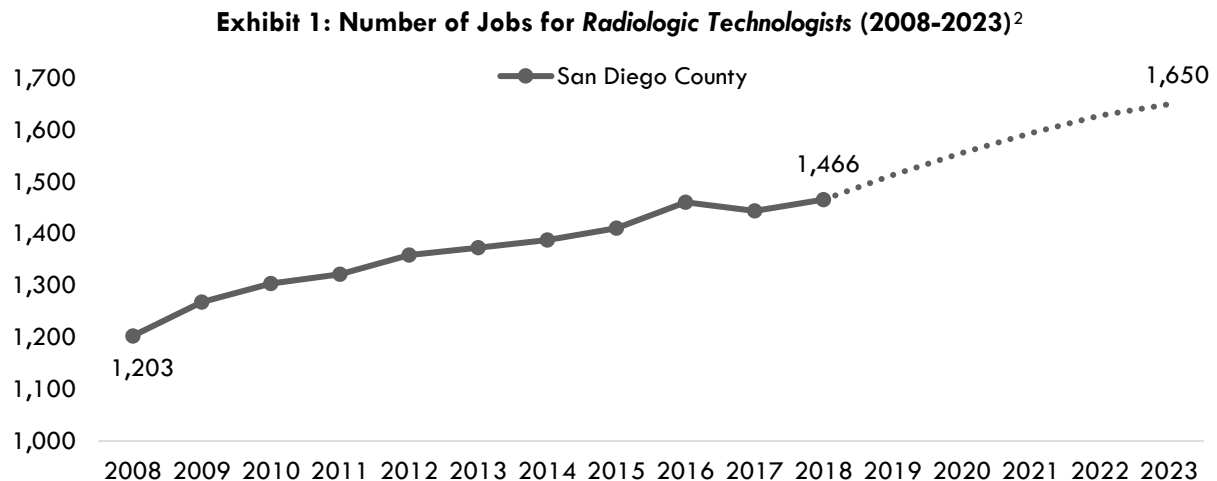
This report provides labor market information in San Diego County for the following occupational code in the Standard Occupational Classification (SOC)¹ system:

Radiologic Technologists (SOC 29-2034): Take x-rays and CAT scans or administer nonradioactive materials into patient's blood stream for diagnostic purposes. Includes technologists who specialize in other scanning modalities. Sample reported job titles include:

- CAT Scan Technologist
- X-Ray Technologist
- Staff Technologist
- Staff Radiographer
- Radiographer, Mammographer
- Radiographer
- Mammography Technologist

Projected Occupational Demand

Between 2018 and 2023, *Radiologic Technologists* are projected to increase by 184 jobs or 13 percent (Exhibit 1). Employers in San Diego County will need to hire 116 workers annually to fill new jobs and backfill jobs due to attrition caused by turnover and retirement, for example.



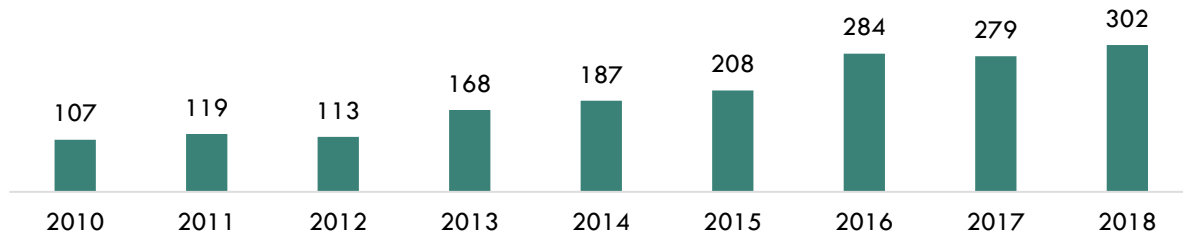
¹ The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories for the purpose of collecting, calculating or disseminating data. [bls.gov/soc](https://www.bls.gov/soc/).

² Emsi 2019.02; QCEW, Non-QCEW, Self-Employed.

Online Job Postings

Between 2010 and 2018, there was an average of 196 online job postings per year for *Radiologic Technologists* in San Diego County (Exhibit 2).

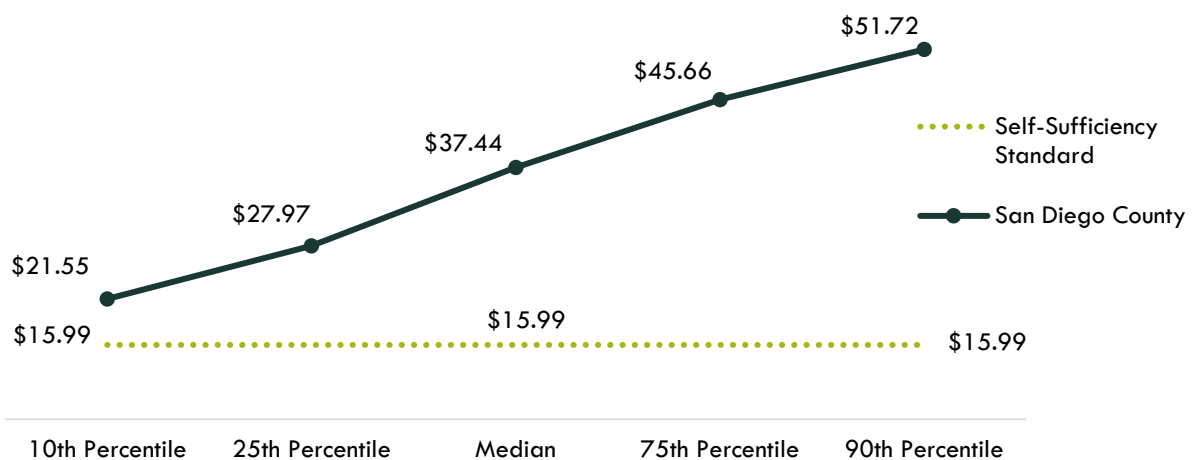
Exhibit 2: Number of Online Job Postings for Radiologic Technologists in San Diego County (2010-2018)³



Earnings

Radiologic Technologists receive median hourly earnings of \$37.44; this is more than the Self-Sufficiency Standard for a single adult in San Diego County, which is \$15.99 per hour (Exhibit 3).⁴

Exhibit 3: Hourly Earnings⁵ for Radiologic Technologists in San Diego County⁶



³ Burning Glass Technologies, "Labor Insight Real-Time Labor Market Information Tool." 2010-2018.

⁴ "Self-Sufficiency Standard," Insight: Center for Community Economic Development, last updated 2018. insightcced.org/2018-self-sufficiency-standard.

⁵ 10th and 25th percentiles could be considered entry-level wages, and 75th and 90th percentiles could be considered experienced wages for individuals who may have been in the occupation longer, received more training than others, etc.

⁶ Emsi 2019.02; QCEW, Non-QCEW, Self-Employed.

Educational Supply

Educational supply for an occupation can be estimated by analyzing the number of awards in related Taxonomy of Programs (TOP) or Classification of Instructional Programs (CIP) codes.⁷ There is **one** TOP code and **three** CIP codes related to *Radiologic Technologists* (Exhibit 4).

Exhibit 4: Related TOP and CIP Codes for Radiologic Technologists

<i>Radiologic Technologists</i>
TOP 122500: Radiologic Technology
CIP 51.0905: Nuclear Medical Technology/Technologist
CIP 51.0907: Medical Radiologic Technology/Science - Radiation Therapist
CIP 51.0911: Radiologic Technology/Science - Radiographer

According to TOP data, **one** community college supplies the region with awards for this occupation: **San Diego Mesa College**. According to CIP data, **one** non-community college supplies the region with awards: **Pima Medical Institute-Chula Vista** (Exhibit 5).

Exhibit 5: Number of Awards (Certificates and Degrees) Conferred by Postsecondary Institutions (Program Year 2013-14 through PY2016-17 Average)

TOP6 or CIP	TOP6 or CIP Title	3-Yr Annual Average CC Awards (PY14-15 to PY16-17)	Other Educational Institutions 3-Yr Annual Average Awards (PY13-14 to PY15-16)	3-Yr Total Average Supply (PY13-14 to PY16-17)
122500	Radiologic Technology	37	0	37
	<ul style="list-style-type: none"> San Diego Mesa 	37	0	
51.0911	Radiologic Technology/Science - Radiographer	0	27	27
	<ul style="list-style-type: none"> Pima Medical Institute-Chula Vista 	0	27	
			Total	64

⁷ TOP data comes from the California Community Colleges Chancellor's Office MIS Data Mart (datamart.cccco.edu) and CIP data comes from the Integrated Postsecondary Education Data System (nces.ed.gov/ipeds/use-the-data).

Demand vs. Supply

Comparing labor demand (annual openings) with labor supply⁸ suggests that there is a **supply gap** for this occupation in San Diego County, with **116** annual openings and **64** awards. Comparatively, there are **1,410** annual openings in California and **1,108** awards⁹ (Exhibit 6).

Exhibit 6: Labor Demand (Annual Openings) Compared with Labor Supply (Average Annual Awards)

Community Colleges and Other Postsecondary Educational Institutions	Demand (Annual Openings)	Supply (Total Annual Average Supply)	Supply Gap or OverSupply
San Diego	116	64	52
California	1,410	1,108	302

Please note: This is a basic analysis of supply and demand of labor. The data does not include workers currently in the labor force who could fill these positions or workers who are not captured by publicly available data. This data should be used to discuss the potential gaps or oversupply of workers; however, it should not be the only basis for determining whether or not a program should be developed.

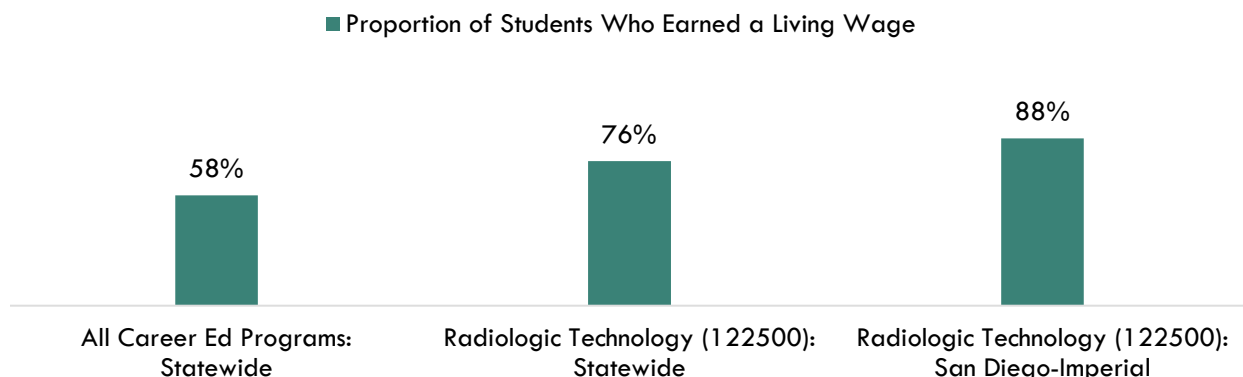
Student Outcomes and Regional Comparisons

According to the California Community Colleges LaunchBoard, there was insufficient data to calculate the “Percentage of Students Employed in a Job Closely Related to Field of Study” in the San Diego-Imperial region and across the state for Radiologic Technology (122500); however, there was data for the “Proportion of Students Who Earned a Living Wage.” Eighty-eight percent of students in the San Diego-Imperial region and 76 percent of students statewide earned a living wage for Radiologic Technology (122500) program, compared to 58 percent of students who earned a living wage in Career Education programs across the state (Exhibit 7).

⁸ Labor supply can be found from two different sources: EMSI or the California Community Colleges Chancellor's Office MIS Data Mart. EMSI uses CIP codes while MIS uses TOP codes. Different coding systems result in differences in the supply numbers.

⁹ “Supply and Demand,” Centers of Excellence Student Outcomes, coecc.net/Supply-and-Demand.aspx.

Exhibit 7: Proportion of Students Who Earned a Living Wage, PY2015-16¹⁰



Top Employers and Work Locations

Between January 1, 2016 and December 31, 2018, the top five employers in San Diego County for this occupation were [Scripps Health](#), [Sharp Healthcare](#), [Providence Health & Services](#), [University of California San Diego](#), and [Sutter Health](#) (Exhibit 8).

Exhibit 8: Top Employers in San Diego County for Radiologic Technologists¹¹

Top Employers	
<ul style="list-style-type: none"> • Scripps Health • Sharp Healthcare • Providence Health & Services • University of California San Diego • Sutter Health 	<ul style="list-style-type: none"> • Palomar Health • Tri City Medical Center • Kaiser Permanente • Rady Children's Hospital • Davita Incorporated

Skills, Education, and Certifications

Exhibit 9 indicates the educational attainment for the occupation found currently in the national labor force. There is no typical on-the-job training for this profession. The typical entry-level education is an [associate degree](#).¹²

¹⁰ Among completers and skills builders who exited, the proportion of students who attained a living wage.

¹¹ Burning Glass Technologies, "Labor Insight Real-Time Labor Market Information Tool." 2016-2018.

¹² Source: Emsi, 2018.04; QCEW, Non-QCEW, Self-Employed.

Exhibit 9: National Educational Attainment of Radiologic Technologists¹³

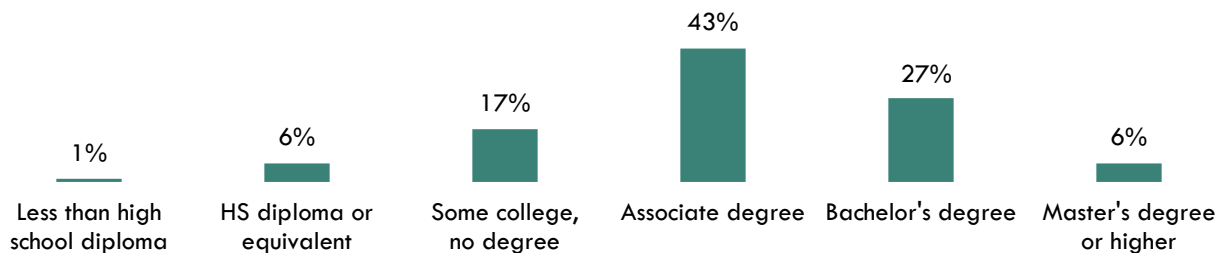


Exhibit 10 lists the top specialized, soft, and software skills that appeared in online job postings between January 1, 2016 and December 31, 2018.

Exhibit 10: Top Skills for Radiologic Technologists in San Diego County¹⁴

Specialized Skills	Soft Skills	Software Skills
<ul style="list-style-type: none"> • Radiology • Radiologic Technology • X-Rays • Patient Care • Radiography 	<ul style="list-style-type: none"> • Communication Skills • Computer Literacy • Typing • Physical Abilities • English 	<ul style="list-style-type: none"> • Microsoft Excel • Microsoft Windows • Microsoft PowerPoint • Microsoft Access • Microsoft Word

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¹³ "Educational Attainment for Workers 25 Years and Older by Detailed Occupation," Bureau of Labor Statistics, last modified October 18, 2018. bls.gov/emp/tables/educational-attainment.htm.

¹⁴ Burning Glass Technologies, "Labor Insight Real-Time Labor Market Information Tool." 2016-2018.

Important Disclaimers

All representations included in this report have been produced from primary research and/or secondary review of publicly and/or privately available data and/or research reports. This study examines the most recent data available at the time of the analysis; however, data sets are updated regularly and may not be consistent with previous reports. Efforts have been made to qualify and validate the accuracy of the data and the report findings; however, neither the Centers of Excellence for Labor Market Research (COE), COE host district, nor California Community Colleges Chancellor's Office are responsible for the applications or decisions made by individuals and/or organizations based on this study or its recommendations.