



# Labor Market Analysis for Program Recommendation Surgical Technology Occupations Las Positas College

**Prepared by the San Francisco Bay Center of Excellence for Labor Market Research  
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## Recommendation

Based on all available data, there appears to be an “undersupply” of Surgical Technology workers compared to the demand for this cluster of occupations in the Bay region and in the East Bay sub-region (Alameda, Contra Costa counties). There is a projected annual gap of about 228 students in the Bay region and 61 students in the East Bay Sub-Region.

## Introduction

This report provides student outcomes data on employment and earnings for TOP 1217.00 Surgical Technician programs in the state and region. It is recommended that these data be reviewed to better understand how outcomes for students taking courses on this TOP code compare to potentially similar programs at colleges in the state and region, as well as to outcomes across all CTE programs at Las Positas College and in the region.

This report profiles Surgical Technology Occupations in the 12 county Bay region and in the East Bay sub-region for a regional program recommendation for Las Positas College.

- **Surgical Technologists (29-2055):** Assist in operations, under the supervision of surgeons, registered nurses, or other surgical personnel. May help set up operating room, prepare and transport patients for surgery, adjust lights and equipment, pass instruments and other supplies to surgeons and surgeon’s assistants, hold retractors, cut sutures, and help count sponges, needles, supplies, and instruments.  
 Entry-Level Educational Requirement: Postsecondary nondegree award  
 Training Requirement: None  
 Percentage of Community College Award Holders or Some Postsecondary Coursework: 74%

## Occupational Demand

**Table 1. Employment Outlook for Surgical Technology Occupations in Bay Region**

Occupation	2020 Jobs	2025 Jobs	5-yr Change	5-yr % Change	5-yr Total Openings	Annual Openings	25% Hourly Earning	Median Hourly Wage
Surgical Technologists	2,444	2,928	484	20%	1,483	297	\$33	\$37
<b>Total</b>	<b>2,444</b>	<b>2,928</b>	<b>484</b>	<b>20%</b>	<b>1,483</b>	<b>297</b>	<b>\$33</b>	<b>\$37</b>

Source: EMSI 2022.3

**Bay Region includes:** Alameda, Contra Costa, Marin, Monterey, Napa, San Benito, San Francisco, San Mateo, Santa Clara, Santa Cruz, Solano and Sonoma Counties

**Table 2. Employment Outlook for Surgical Technology Occupations in East Bay Sub-region**

Occupation	2020 Jobs	2025 Jobs	5-yr Change	5-yr % Change	5-yr Total Openings	Annual Openings	25% Hourly Earning	Median Hourly Wage
Surgical Technologists	800	936	136	17%	449	90	\$33	\$36
<b>Total</b>	<b>800</b>	<b>936</b>	<b>136</b>	<b>17%</b>	<b>449</b>	<b>90</b>	<b>\$33</b>	<b>\$36</b>

Source: EMSI 2022.3

**East Bay Sub-Region includes:** Alameda, Contra Costa Counties**Job Postings in Bay Region and East Bay Sub-Region****Table 3. Number of Job Postings by Occupation for latest 12 months (Oct. 2021 – Sept. 2022)**

Occupation	Bay Region	East Bay
Surgical Technologists	2,915	839

Source: Burning Glass

**Table 4a. Top Job Titles for Surgical Technology Occupations for latest 12 months (Oct. 2021 – Sept. 2022)  
Bay Region**

Title	Bay	Title	Bay
Surgical Technician	206	Neurology Surgical Technologist Cst/Travel	55
Surgical Technologist	182	Labor & Delivery Surgical Technologist Cst/Travel	54
Surg Technician	78	Senior Surgical Technician	47
Surgical Technologist II	64	Surgical Technician/Operating Room	46
Cardiac Surgical Technologist Cvor/Cst/Travel	57	Surgical Technologist - Operating Room	45
Operating Room Technician	57	Travel OR Technician Surgical Technician	43
Pediatric Surgical Technologist Cst/Travel	57	OR Technician/Surgical Technician Surgical Services	38
Orthopedics Surgical Technologist Cst/Travel	56	Cst - Surg Technician	37
Surgical Technologist Cst/Travel	56	Certified Surgical Technologist	36

Source: Burning Glass

**Table 4b. Top Job Titles for Surgical Technology Occupations for latest 12 months (Oct. 2021 – Sept. 2022)  
East Bay Sub-Region**

Title	East Bay	Title	East Bay
Surgical Technician	52	Orthopedics Surgical Technologist Cst/Travel	23
Surgical Technologist	46	Surg Technician	18
Operating Room Technician	38	Senior Surgical Technician	17
Surgical Technologist II	27	Or Technician/Surgical Technician Surgical Services	15
Cardiac Surgical Technologist Cvor/Cst/Travel	26	Surgical Technician/Operating Room	14
Pediatric Surgical Technologist Cst/Travel	26	Surgical Technologist Surgical Technician	12
Surgical Technologist Cst/Travel	26	Surgical Technologist - Operating Room	11
Labor & Delivery Surgical Technologist Cst/Travel	25	Travel Surgical Technologist	11
Neurology Surgical Technologist Cst/Travel	25	Cst - Surg Technician	10

Source: Burning Glass

## Industry Concentration

**Table 5. Industries hiring Surgical Technology Workers in Bay Region**

Industry - 6 Digit NAICS (No. American Industry Classification) Codes	Jobs in Industry (2020)	Jobs in Industry (2025)	% Change (2020-25)	% Occupation Group in Industry (2020)
General Medical and Surgical Hospitals	993	1,027	3%	38%
HMO Medical Centers	541	729	35%	23%
Hospitals (Local Government)	282	339	21%	12%
Offices of Physicians (except Mental Health Specialists)	143	188	31%	7%
Freestanding Ambulatory Surgical and Emergency Centers	86	130	51%	4%
Hospitals (State Government)	73	134	83%	4%
All Other Outpatient Care Centers	74	120	63%	4%
Offices of Dentists	82	59	-27%	2%
Kidney Dialysis Centers	43	50	15%	2%
Temporary Help Services	16	24	51%	1%

Source: EMSI 2022.3

**Table 6. Top Employers Posting Surgical Technology Occupations in Bay Region and East Bay Sub-Region (Oct. 2021 – Sept. 2022)**

Employer	Bay	Employer	East Bay
Sutter Health	270	Sutter Health	76
Aya Healthcare	138	Aya Healthcare	45
Emerald Health Services	64	Kaiser Permanente	20
Kaiser Permanente	56	Carerev	17
Providence St Joseph's Health	55	Vca Animal Hospitals	14
Carerev	46	Providence St Joseph's Health	14

Source: Burning Glass

### Educational Supply

There is one (1) community college in the Bay Region issuing eight (8) awards on average annually (last 3 years ending 2018-19) on TOP 1217.00 Surgical Technician. In the East Bay Sub-Region, there are no community colleges that issued awards on average annually (last 3 years) on this TOP code.

There are three (3) other CTE educational institutions in the Bay Region issuing 61 awards on average annually (last 3 years ending 2019-20) on CIP 51.0909 - Surgical Technology/Technologist. There are two (2) other CTE educational institutions in the East Bay Sub-Region issuing 29 awards on average annually (last 3 years) on this TOP code.

**Table 7a. Community College Awards on TOP 1217.00 Surgical Technician in Bay Region**

College	Subregion	Associate Degree	Award < 1 academic yr.	Total
Skyline College	Mid-Peninsula	6	2	8
<b>Total</b>		<b>6</b>	<b>2</b>	<b>8</b>

Note: The annual average for awards is 2018-19 to 2020-21.

**Table 7b. Other CTE Institutions Awards on CIP 51.0909 - Surgical Technology/Technologist in Bay Region**

College	Subregion	Associate Degree	Postsecondary awards	Total
Carrington College-San Jose	Silicon Valley	2	30	32
Contra Costa Medical Career College	East Bay	0	16	16
Mt. Diablo Adult Education-Mt. Diablo USD	East Bay	0	13	13
<b>Total</b>		<b>2</b>	<b>59</b>	<b>61</b>

Source: Data Mart

Note: The annual average for awards is 2017-18 to 2019-20.

## Gap Analysis

Based on the data included in this report, there is a large labor market gap in the Bay region with 297 annual openings for the Surgical Technology occupational cluster and 69 annual (3-year average) awards for an annual undersupply of 228 students. In the East Bay Sub-Region, there is also a gap with 90 annual openings and 29 annual (3-year average) awards for an annual undersupply of 61 students.

## Student Outcomes

**Table 8. Four Employment Outcomes Metrics for Students Who Took Courses on TOP 1217.00 Surgical Technician**

Metric Outcomes	Bay All CTE Programs	Las Positas All CTE Programs	State 1217.00	Bay 1217.00	East Bay 1217.00	Las Positas 1217.00
Students with a Job Closely Related to Their Field of Study	74%	70%	90%	92%	N/A	N/A
Median Annual Earnings for SWP Exiting Students	\$47,419	\$45,238	\$49,353	\$38,998	N/A	N/A
Median Change in Earnings for SWP Exiting Students	23%	24%	42%	91%	N/A	N/A
Exiting Students Who Attained the Living Wage	52%	55%	56%	50%	N/A	N/A

Source: Launchboard Strong Workforce Program Median of 2017 to 2020.

## Skills, Certifications and Education

**Table 9. Top Skills for Surgical Technology Occupations in Bay Region (Oct. 2021 – Sept. 2022)**

Skill	Posting	Skill	Posting
Surgical Technician	1,793	Physiology	221
Surgery	1,448	Anesthesiology	170
Surgical Technology	764	Vaccines	168
Patient Care	760	Cardiopulmonary Resuscitation (CPR)	155
Aseptic Technique	738	Patient Safety	148
Surgical Instruments	655	Advanced Cardiac Life Support (ACLS)	147
Sterile Procedures/Techniques	608	Sales	147
Surgical Services	595	Vaccination	145
Life Support	591	Orthopedics	142
Cleaning	490	Urology	141
Surgical Procedure	459	Pediatrics	139
Incision	404	Scheduling	137
Anatomy	291	Occupational Health and Safety	126

Acute Care	268	Gynecology	124
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Source: Burning Glass

**Table 10. Certifications for Surgical Technology Occupations in Bay Region (Oct. 2021 – Sept. 2022)**

Certification	Posting	Certification	Posting
Certified Surgical Technician	1,060	American Registry For Diagnostic Medical Sonography (ARDMS)	19
Basic Cardiac Life Support Certification	846	Neonatal Resuscitation Program (NRP)	18
Basic Life Saving (BLS)	680	Certified Registered Nurse Practitioner	13
American Heart Association Certification	157	Pediatric Advanced Life Support (PALS) Certification	11
Advanced Cardiac Life Support (ACLS) Certification	149	Certified Registered Central Service Technician (CRCST)	11
First Aid Cpr Aed	88	Ca License	11
Driver's License	75	Certified Scrub Technician	7
Licensed Vocational Nurse (LVN)	20	Certified Medical Assistant	7

Source: Burning Glass

Note: 41% of records have been excluded because they do not include a certification. As a result, the chart below may not be representative of the full sample.

**Table 11. Education Requirements for Surgical Technology Occupations in Bay Region**

Education (minimum advertised)	Latest 12 Mos. Postings	Percent 12 Mos. Postings
High school or vocational training	695	97%
Associate's degree	18	3%

Source: Burning Glass

Note: 76% of records have been excluded because they do not include a degree level. As a result, the chart below may not be representative of the full sample.

## Methodology

Occupations for this report were identified by use of skills listed in O\*Net descriptions and job descriptions in Burning Glass. Labor demand data is sourced from Economic Modeling Specialists International (EMSI) occupation data and Burning Glass job postings data. Educational supply and student outcomes data is retrieved from multiple sources, including CTE Launchboard and CCCCO Data Mart.

## Sources

O\*Net Online

Labor Insight/Jobs (Burning Glass)

Economic Modeling Specialists International (EMSI)

CTE LaunchBoard [www.calpassplus.org/Launchboard/](http://www.calpassplus.org/Launchboard/)

Statewide CTE Outcomes Survey

Employment Development Department Unemployment Insurance Dataset  
Living Insight Center for Community Economic Development  
Chancellor's Office MIS system

## **Contacts**

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