

# Photography Digital Technician Occupations Labor Market Information Report City College of San Francisco Prepared by the San Francisco Bay Center of Excellence for Labor Market Research November 2018

#### Recommendation

Based on all available data, there appears to be an undersupply of Photography Digital Technician workers compared to the demand for this cluster of occupations in the Bay region and in the Mid-Peninsula sub-region (San Francisco and San Mateo Counties). The annual gap is about 681 students annually in the Bay region and 161 students annually in the Mid-Peninsula sub-region.

This report also provides student outcomes data on employment and earnings for programs on TOP 1012.00 - Applied Photography in the state and region. It is recommended that this 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 City College of San Francisco and in the region.

## Introduction

This report profiles Photography Digital Technician Occupations in the 12 county Bay region and in the Mid-Peninsula sub-region for a proposed new program at City College of San Francisco.

• Photographers (SOC 27-4021): Photograph people, landscapes, merchandise, or other subjects, using digital or film cameras and equipment. May develop negatives or use computer software to produce finished images and prints. Includes scientific photographers, aerial photographers, and photojournalists.

Entry-Level Educational Requirement: High school diploma or equivalent
Training Requirement: Long-term on-the-job training
Percentage of Community College Award Holders or Some Postsecondary Coursework: 35%

• Photographic Process Workers and Processing Machine Operators (SOC 51-9151): Perform work involved in developing and processing photographic images from film or digital media. May perform precision tasks such as editing photographic negatives and prints.

Entry-Level Educational Requirement: High school diploma or equivalent
Training Requirement: Short-term on-the-job training
Percentage of Community College Award Holders or Some Postsecondary Coursework: 32%

## **Occupational Demand**

Table 1. Employment Outlook for Photography Digital Technician Occupations in Bay Region

Occupation	2017 Jobs	2022 Jobs	5-Yr Chang e	5-Yr % Chang e	5-Yr Open- ings	Annu al Open -ings	10% Hourl y Wage	Media n Hourl
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Photographers	5,641	6,112	471	8%	2,852	570	\$13.00	\$17.15
Photographic Process Workers and Processing Machine Operators	1,091	1,038	(52)	(5%)	838	168	\$11.50	\$15.01
Total	6,732	7,150	418	6%	3,690	738	\$12.76	\$16.81

Source: EMSI 2018.4

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 Photography Digital Technician Occupations in Mid-Peninsula Sub-Region** 

Occupation	2017 Jobs	2022 Jobs	5-Yr Chang e	5-Yr % Chang e	5-Yr Open- ings	Annu al Open -ings	10% Hourl y Wage	Media n Hourl y Wage
Photographers	1,558	1,700	142	9%	789	158	\$13.63	\$17.53
Photographic Process Workers and Processing Machine Operators	260	266	6	2%	212	42	\$10.59	\$17.12
TOTAL	1,817	1,966	148	8%	1,001	200	\$13.20	\$17.47

Source: EMSI 2018.4

Mid-Peninsula Sub-Region includes San Francisco and San Mateo Counties

Job Postings in Bay Region and Mid-Peninsula Sub-Region

Table 3. Number of Job Postings by Occupation for latest 12 months (Oct 2017 - Sept 2018)

Occupation	Bay Region	Mid- Peninsula
Photographers (SOC 27-4021):	555	226
Photographic Process Workers and Processing Machine Operators (SOC 51-9151):	235	75
Total	790	301

Source: Burning Glass

Table 4. Top Job Titles for Photography Digital Technician Occupations for latest 12 months (Oct 2017 - Sept 2018)

Common Title	Bay	Mid- Peninsula	Common Title	Bay	Mid- Peninsula
Photographer	368	154	Assistant, Photography, Information And Technology Industry	9	3
School Photographer	73	16	Processor	9	1
Developer	33	5	Photo Retoucher	8	6

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Real Estate	18	7	Assistant, Photography,	6	3
Photographer			Event, Information And		
			Technology Industry		
Technician	18		Digital Specialist	6	4
Wedding Photographer	17	13	Photojournalist	6	6
Black Box Photography	10	0	Retoucher	6	5
Qe					
Specialist	10	1	Ap Processor	5	5

Source: Burning Glass

# **Industry Concentration**

Table 5. Industries hiring Photography Digital Technician Workers in Bay Region

	Jobs in	Jobs in	%	% in
Industry – 6 Digit NAICS (No. American Industry	Industr	Industr	Change	Industr
Classification) Codes	y	y	(2017-	y
	(2017)	(2022)	22)	(2017)
All Other Professional, Scientific, and Technical Services				
(541990)	3,012	3,117	13%	45.3%
Photography Studios, Portrait (541921)	781	799	(8%)	11.6%
Independent Artists, Writers, and Performers (711510)	455	450	(4%)	6.5%
Commercial Photography (541922)	343	361	2%	5.2%
<b>Translation and Interpretation Services (541930)</b>	198	207	16%	3.0%
Internet Publishing and Broadcasting and Web Search				
Portals (519130)	192	198	40%	2.9%
Marketing Research and Public Opinion Polling (541910)	124	129	15%	1.9%
Warehouse Clubs and Supercenters (452311)	99	98	(3%)	1.4%
Parking Lots and Garages (812930)	95	92	(1%)	1.3%
Motion Picture and Video Production (512110)	89	91	9%	1.3%
Photofinishing Laboratories (except One-Hour) (812921)	89	86	0%	1.2%
Department Stores (452210)	88	85	(35%)	1.2%
Pharmacies and Drug Stores (446110)	75	73	(12%)	1.1%
Pet Care (except Veterinary) Services (812910)	71	68	4%	1.0%

Source: EMSI 2018.4

Table 6. Top Employers Posting Photography Digital Technician Occupations in Bay Region and Mid-Peninsula Sub-Region (Oct 2017 - Sept 2018)

Employer	Bay	Employer	Bay	Employer	Mid- Penins ula
Lifetouch	92	NBC	6	Lifetouch	21
Pro Motionpix, Llc	54	Walgreens Boots Alliance Inc	6	Pro Motionpix, Llc	18
Iconic Group	31	Academy Art University	5	Iconic Group	17

		Charleys Angels Newborn			
Gradimages	30	Photography	5	Gradimages	15
		Classic			
<b>Bella Baby Photography</b>	19	Photographers	5	Mom365	6
				Bella Baby	
Mom365	12	Cozymeal	5	Photography	5
				Charleys Angels	
		<b>Hornblower Cruises</b>		Newborn	
<b>Dealervision Com</b>	11	Events	5	Photography	5
				<b>Hornblower Cruises</b>	
<b>Jepenney Portraits</b>	10	Kodakit	5	Events	5
<del>-</del>				Academy Art	
<b>Teddy Bear Portraits</b>	8	Mom365, Inc	5	University	4
Costar Group	6	<b>Xcite Advertising</b>	5	CBS Broadcasting	4

Source: Burning Glass

# **Educational Supply**

There are seven community colleges in the Bay Region issuing 57 awards annually on TOP 1012.00 - Applied Photography. City College of San Francisco is the only college in the Mid-Peninsula subregion with a program on this TOP code, issuing 39 awards annually.

Table 7. Awards on TOP 1012.00 - Applied Photography in the Bay Area

College	Sub-Region	Headcou	Associat	Certifica	Tota
College	Sub-Region	nt	es	tes	l
Chabot Hayward	East Bay	281	2		2
De Anza	Silicon Valley	685	2	6	8
Laney	East Bay	382	0	1	1
Napa	North Bay	257	0	1	1
San Francisco	Mid-Peninsula	432		39	39
Solano	North Bay	251	2	3	5
West Valley	Silicon Valley	n/a		1	1
<b>Total Bay Region</b>		2,288	6	51	57
<b>Total Mid-Peninsula Sub-</b>	Region	432		39	39

Source: IPEDS, Data Mart and Launchboard

NOTE: Headcount of students who took one or more courses is for 2016-17. The annual average for awards is 2014-17 unless there are only awards in 2016-17. The annual average for other postsecondary is for 2013-16.

### **Gap Analysis**

Based on the data included in this report, there is a labor market gap in the Bay region with 738 annual openings for the Photography Digital Technician occupational cluster and 57 annual awards for an annual undersupply of 681. In the Mid-Peninsula sub-region, there is also a gap with 200 annual openings and 39 annual awards for an annual undersupply of 161.

# **Student Outcomes**

**Table 8. Four Employment Outcomes Metrics for Students Who Took Courses on TOP 1012.00 - Applied Photography** 

2015-16	Bay (All CTE Progra ms)	City College of San Francis co (All CTE Progra ms)	State (TOP 1012.00)	Bay (TOP 1012.00)	Mid- Peninsu la (TOP 1012.00)	City College of San Francis co (TOP 1012.00)
% Employed Four Quarters After Exit	75%	72%	58%	57%	60%	60%
Median Quarterly Earnings Two Quarters After Exit	\$13,996	\$10,794	\$5,970	\$7,589	\$11,380	\$11,380
Median % Change in Earnings	40%	46%	36%	38%	50%	50%
% of Students Earning a Living Wage	63%	55%	37%	44%	53%	53%

Source: Launchboard Pipeline (version available on 10/17/18)

## Skills, Certifications and Education

**Table 9. Top Skills for Photography Digital Technician Occupations in Bay Region (Oct 2017 - Sept 2018)** 

Skill	Postin	Skill	Postin	Skill	Postin
SKIII	gs	SKIII	gs	SKIII	gs
Photography	537	Videography	42	Repair	26
<b>Customer Service</b>	159	Social Media	39	<b>Color Editing</b>	25
				Retail Industry	
Lifting Ability	125	Adobe Indesign	38	Knowledge	25
<b>Adobe Photoshop</b>	121	E-Commerce	31	Digital Photography	24
Sales	87	Product Sales	31	Graphic Design	21
Automotive					
<b>Industry Knowledge</b>	68	Adobe Acrobat	30	Photo Editing	20
Scheduling	67	Adobe Creative Suite	29	Printers	19
Client Base					
Retention	55	Adobe Illustrator	28	Journalism	17
<b>Computer-Assisted</b>					
Auditing					
Technology (CAAT)		Quality Assurance and			
services	43	Control	28	Python	17

Source: Burning Glass

Table 10. Certifications for Photography Digital Technician Occupations in the Bay Region (Oct 2017 - Sept 2018)

Note: 71% 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.

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Certification	Postings	Certification	Postings
		IT Infrastructure Library (ITIL)	
Driver's License	212	Certification	2
Certified Ophthalmic			
Assistant	6	ITIL Certification	2
First Aid Cpr Aed	6	Pilot Certification	2
<b>Basic Life Saving (BLS)</b>	4	<b>Project Management Certification</b>	2
Certified Ophthalmic			
Technician	4	Six Sigma Certification	2
Phlebotomy Certification	3	Alcohol Server Certification	1
American Heart		Certified Clinical Research	
<b>Association Certification</b>	2	Professional	1
Driver's License	212	Certified Quality Auditor (CQA)	1

Source: Burning Glass

Table 11. Education Requirements for Photography Digital Technician Occupations in Bay Region Note: 56% 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.

Education (minimum advertised)	Latest 12 Mos. Postings
High school or vocational training	226 (65%)
Associate Degree	5 (1%)
Bachelor's Degree or Higher	117 (34%)

Source: Burning Glass

## 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/

**Statewide CTE Outcomes Survey** 

**Employment Development Department Unemployment Insurance Dataset** 

**Living Insight Center for Community Economic Development** 

**Chancellor's Office MIS system** 

## Contacts

For more information, please contact:

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