

# Film Production

Inland Empire/Desert Region (Riverside and San Bernardino counties combined)

# **Summary**

- Employment for the film production occupational group is expected to increase by 5% between
   2018 and 2023 in the Inland Empire/Desert region. A total of 502 job openings or 100 annual openings will be available over the five-year timeframe.
- The entry-level wage for the film production occupational group is above the MIT Living Wage estimate of \$12.39 per hour for a single adult living in the Inland Empire/Desert region.
- There appears to be an opportunity for program growth based on the annual average number
  of program credentials issued for the selected community college program in the region
  (10 annual average community college credentials), and the annual openings for the film
  production occupational group across the region (100 average annual openings).

# Introduction

California Community College film production (TOP 0612.20) programs prepare students for employment in film production by providing instruction on the techniques used in the communication of dramatic information, ideas, moods, and feelings through films and videos. Includes film technology and equipment, directing, editing, planning, and management of film/video operations (Taxonomy of Programs, 2012). The occupations included in the film production occupational group are the following:

- Camera Operators, Television, Video, and Motion Picture
- Film and Video Editors
- Producers and Directors
- Sound Engineering Technicians



# **Job Opportunities**

In 2018, there were 991 jobs in the film production occupational group in the Inland Empire/Desert region. This occupational group is projected to increase employment by 5% through 2023. Employers in the region will need to hire 502 workers over the next five years to fill new jobs and backfill jobs that workers are permanently vacating (includes occupational transfers and retirements). Exhibit 1 displays five-year projections for the film production occupational group in the Inland Empire/Desert region.

Exhibit 1: Five-year projections for the film production occupational group

2018 Jobs	2023 Jobs	5-Yr % Change (New Jobs)	5-Yr Openings (New + Replacement Jobs)	Annual Openings (New + Replacement Jobs)	% of workers age 55+
991	1,038	5%	502	100	16%

Source: EMSI 2018.4

# **Earnings**

The entry-level wage for the film production occupational group is above the MIT Living Wage estimate of \$12.39 per hour for a single adult living in the Inland Empire/Desert region (Glasmeier, 2019). These wages are also sufficient for two working adults and one child (\$14.75 per hour, per adult, or \$30,680 annually for each adult). Exhibit 2 displays wage information for the film production occupational group in the Inland Empire/Desert region.

Exhibit 2: Earnings for the film production occupational group

Occupation	Entry to Experienced Hourly Wage Range*	Median Wage*	Average Annual Earnings
Film and Video Editors	\$24.85 to \$32.28	\$28.40	\$63,500
Sound Engineering Technicians	\$24.88 to \$31.56	\$28.25	\$61,700
Producers and Directors	\$19.64 to \$37.02	\$23.74	\$59,500
Camera Operators, Television, Video, and Motion Picture	\$18.87 to \$25.09	\$21.92	\$47,900

Source: EMSI 2018.4

<sup>\*</sup>Entry Hourly is 25th percentile wage, the median is 50th percentile wage, and experienced is 75th percentile wage.



# Job Postings, Employers, Skills, and Education

Exhibit 3 displays the number of job ads posted during the last 12 months along with the regional and statewide average time to fill for the film production occupational group in the Inland Empire/Desert region. On average, local employers fill online job postings for the film production occupational group within 92 days. This regional average is 41 days longer than the statewide average, indicating that it is much more challenging for local employers to find qualified candidates. Within this occupational group, employers are experiencing the greatest challenge filling job ads for sound engineering technicians.

Exhibit 3: Job ads and time to fill for the film production occupational group, Apr 2018 – Mar 2019

Occupation	Job Ads	Regional Average Time to Fill (Days)	California Average Time to Fill (Days)
Producers and Directors	46	94	54
Camera Operators, Television, Video, and Motion Picture	34	86	46
Sound Engineering Technicians	13	107	58
Film and Video Editors	10	84	45
Total	103	92	51

Source: Burning Glass - Labor Insights

Exhibit 4 displays the employers posting the most job ads for the film production occupational group during the last 12 months in the Inland Empire/Desert region.

Exhibit 4: Employers posting the most job ads for the film production occupational group, Apr 2018 – Mar 2019

Occupation	Employers
Producers and Directors (n=41)	<ul><li>Media Zoo</li><li>Live Nation</li></ul>
Camera Operators, Television, Video, and Motion Picture (n=25)	<ul><li>California State University, San Bernardino</li><li>Live Nation</li></ul>
Sound Engineering Technicians (n=10)	<ul><li>Live Nation</li><li>City of Rancho Cucamonga</li></ul>
Film and Video Editors (n=7)	<ul><li>Archaius Creative</li><li>Pechanga Resort &amp; Casino</li></ul>

Source: Burning Glass - Labor Insights



Exhibit 5 displays a sample of specialized, employability, and software and programming skills that employers are seeking when looking for workers to fill positions in the film production occupational group. Specialized skills are occupation-specific skills that employers are requesting for industry or job competency. Employability skills are foundational skills that transcend industries and occupations; this category is commonly referred to as "soft skills." The skills requested in job postings may be utilized as a helpful guide for curriculum development.

Exhibit 5: Sample of in-demand skills from employer job ads for the film production occupational group, Apr 2018 – Mar 2019

Occupation Occupation	Specialized Skills	Employability Skills	Software and Programming Skills
Producers and Directors (n=39)	<ul><li>Budgeting</li><li>Journalism</li><li>Video Editing</li></ul>	<ul><li>Creativity</li><li>Editing</li><li>Writing</li></ul>	<ul> <li>Adobe Creative Suite*</li> <li>Autodesk Maya</li> <li>Final Cut Pro</li> </ul>
Camera Operators, Television, Video, and Motion Picture (n=32)	<ul><li>Digital Video</li><li>Creative Direction</li><li>Quality Management</li></ul>	<ul><li>Creativity</li><li>Editing</li><li>Research</li></ul>	<ul> <li>Adobe Creative Suite*</li> </ul>
Sound Engineering Technicians (n=7)	<ul><li>Repair</li><li>Audio Systems</li><li>Production Management</li></ul>	<ul> <li>Building Effective Relationships</li> <li>Physical Abilities</li> <li>Communication Skills</li> </ul>	Audio Mixing
Film and Video Editors (n=9)	<ul><li>Videography</li><li>Post Production</li><li>Scheduling</li></ul>	<ul><li>Creativity</li><li>Teamwork/ Collaboration</li><li>Detail-Oriented</li></ul>	<ul><li>Adobe Creative Suite*</li><li>Final Cut Pro</li></ul>

Source: Burning Glass – Labor Insights

Exhibit 6 displays the work experience and entry-level education typically required to enter each occupation according to the Bureau of Labor Statistics (BLS), educational attainment for incumbent workers with "some college, no degree" and an "associate degree" according to the U.S. Census (2016-17), and the minimum advertised education requirement from employer job ads. Most employers are looking for a candidate holding a bacholor's degree with the exception of the sound engineer technician and film and video producers occupations.

<sup>\*</sup>Adobe Creative Suite contains Adobe Photoshop, InDesign, Illustrator, Acrobat, as well as others and is widely considered to be the industry standard for graphic design.



Exhibit 6: Work experience, typical entry-level education, educational attainment, and minimum advertised education requirements for the film production occupational group, Apr 2018 – Mar 2019

Occupation	Work Experience Required	Typical Entry- Level Education Requirement	Educational Attainment*	Minimum Advertised Education Requirement from Job Ads				
				Number of Job Ads (n=)	High school diploma or vocational training	Associate degree	Bachelor's degree or higher	
Producers and Directors	Less than 5 years	Bachelor's degree	18%	24	13%	4%	83%	
Camera Operators, Television, Video, and Motion Picture	None	Bachelor's degree	24%	20	35%	-	65%	
Sound Engineering Technicians	None	Postsecondary nondegree award	44%	5	80%	-	20%	
Film and Video Editors	None	Bachelor's degree	24%	5	80%	-	20%	

Source: EMSI 2018.4, Burning Glass – Labor Insights

# **Student Completions and Program Outcomes**

Exhibit 7 displays the average annual regional California Community College (CCC) credentials conferred during the three academic years between 2014 and 2017, from the California Community Colleges Chancellor's Office Management Information Systems (MIS) Data Mart, along with the headcount from the most recent year available on LaunchBoard. Credentials are the combined total of associate degrees and certificates issued during the timeframe, divided by three in this case in order to calculate an annual average. This is done to minimize the effect of atypical variation that might be present in a single year. Headcount is the unduplicated number of students who enrolled in one or more courses in the program. The relevant TOP code is from the Taxonomy of Programs manual, and the corresponding program titles used at each college (in *italics*) is sourced from the Chancellor's Office Curriculum Inventory (COCI). Please note, a credential is not always equal to a single person in search of a job opening since a student may earn more than one credential, such as an associate degree in addition to a certificate.

<sup>\*</sup>Percentage of incumbent workers with a Community College Credential or Some Postsecondary Coursework



Exhibit 7: Annual average community college credentials and headcount for the film production program in the Inland Empire/Desert Region

0612.20 - Film Production	CCC Headcount, Academic Year 2016-17	CCC Annual Average Credentials, Academic Years 2014-17
<b>Chaffey</b> – Post Production Editing/Motion Picture Production	39	
Certificate 6 to < 18 semester units		1
Certificate 12 to < 18 semester units		6
San Bernardino — RTVF (Film)		
Associate Degree		2
Certificate 18 to < 30 semester units		1
Total CCC Headcount, Academic Year 2016-17	39	
Total Annual Average CCC Credentials, Academic Years 2014-17		10

Source: LaunchBoard, MIS Data Mart, COCI

Community college student outcome information is from LaunchBoard and based on the selected TOP code and region. These metrics are based on records submitted to the California Community Colleges Chancellor's Office Management Information Systems (MIS) by community colleges, which comes from self-reported student information from CCC Apply and the National Student Clearinghouse. Employment and earnings metrics are sourced from records provided by California's Employment Development Department's Unemployment Insurance database. When available, outcomes for completers are reported in order to demonstrate the impact that earning a degree or certificate can have on employment and earnings. For more information on the types of students included for each metric, please see the web link for LaunchBoard's Strong Workforce Program Metrics Data Element Dictionary in the References section (LaunchBoard, 2019a). Finally, employment in a job closely related to the field of study comes from self-reported student responses on the CTE Employment Outcomes Survey (CTEOS), administered by Santa Rosa Junior College (LaunchBoard, 2017). Data from the latest academic year for each metric is provided in Exhibit 8.



Exhibit 8: Film production strong workforce program outcomes

Strong Workforce Program Metrics: 0612.20 - Film Production Academic Year 2015-16, unless noted otherwise	Inland Empire/Desert Region	California Median
Course enrollments (2016-17)	39	102
Completed 12+ units in one year (2016-17)	14	23
Economically disadvantaged students* (2016-17)	79%	68%
Transferred to a 4-year institution	N/A	14
Employed in 4th fiscal quarter after exit (all exiters)	N/A	65%
Median annual earnings* (all exiters)	N/A	\$30,130
Job closely related to field of study (2014-15)	N/A	75%
Median change in earnings (all exiters)	N/A	19%
Attained a living wage (completers and skills-builders)	N/A	50%

Source: LaunchBoard

<sup>\*</sup>Data for these metrics is available in Community College Pipeline. All others are available in Strong Program Workforce Metrics.



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### Contact

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# Appendix: Occupation definitions, sample job titles, five-year projections for film production occupations

Occupation Definitions (SOC) code), Education and Training Requirement, Community College **Educational Attainment** 

## Producers and Directors (27-2012)

Produce or direct stage, television, radio, video, or motion picture productions for entertainment, information, or instruction. Responsible for creative decisions, such as interpretation of script, choice of actors or guests, set design, sound, special effects, and choreography.

Sample job titles: Broadcast Producer, Casting Director, Film Maker, Independent Film Maker, Independent Video Producer, Motion Picture Director, Movie Producer, Music Video Director, Music Video Producer, News Production Supervisor, Newscast Director, Newscast Producer, On-Air Director, Pageant Director, Radio Producer, Radio Television Technical Director, Stage Manager, Television News Producer, Television Newscast Director, Television Producer, Television Program Director, Theater Company Producer, Video Producer

Entry-Level Educational Requirement: Bachelor's degree

Training Requirement: None

Incumbent workers with a Community College Award or Some Postsecondary Coursework: 18%

### Sound Engineering Technicians (27-4014)

Operate machines and equipment to record, synchronize, mix, or reproduce music, voices, or sound effects in sporting arenas, theater productions, recording studios, or movie and video productions.

Sample job titles: Audio Engineer, Audio Operator, Broadcast Engineer, Broadcast Technician, Master Control Operator, Mixer, Recording Engineer, Sound Engineer, Sound Technician, Studio Engineer

Entry-Level Educational Requirement: Postsecondary nondegree award

Training Requirement: None

Incumbent workers with a Community College Award or Some Postsecondary Coursework: 44%



## Camera Operators, Television, Video, and Motion Picture (27-4031)

Operate television, video, or motion picture camera to record images or scenes for various purposes, such as TV broadcasts, advertising, video production, or motion pictures.

Sample job titles: Camera Operator, Cameraman, Floor Director, Master Control Operator (MCO), Photojournalist, Production Assistant, Production Technician, Studio Camera Operator, Television News Photographer, Videographer

Entry-Level Educational Requirement: Bachelor's degree

Training Requirement: None

Incumbent workers with a Community College Award or Some Postsecondary Coursework: 24%

### Film and Video Editors (27-4032)

Edit moving images on film, video, or other media. May edit or synchronize soundtracks with images.

Sample job titles: Assistant Film Editor, Editor, Film Editor, News Editor, News Video Editor, News Videotape Editor, Non-Linear Editor, Online Editor, Video Editor, Videographer

Entry-Level Educational Requirement: Bachelor's degree

Training Requirement: None

Incumbent workers with a Community College Award or Some Postsecondary Coursework: 24%



Table 1: 2018 to 2023 job growth, wages, education, training, and work experience required for the film production occupational group, Inland Empire/Desert Region

Occupation (SOC)	2018 Jobs	5-Yr Change	5-Yr % Change	Annual Openings (New + Replacement Jobs)	Entry-Experienced Hourly Wage*	Median Hourly Wage*	Average Annual Earnings	Typical Entry-Level Education & On-The- Job Training Required	Work Experience Required
Producers and Directors (27-2012)	574	23	4%	56	\$19.64 to \$37.02	\$23.74	\$59,500	Bachelor's degree & none	Less than 5 years
Film and Video Editors (27-4032)	183	15	8%	21	\$24.85 to \$32.28	\$28.40	\$63,500	Bachelor's degree & none	None
Camera Operators, Television, Video, and Motion Picture (27-4031)	121	6	5%	13	\$18.87 to \$25.09	\$21.92	\$47,900	Bachelor's degree & none	None
Sound Engineering Technicians (27-4014)	114	1	1%	11	\$24.88 to \$31.56	\$28.25	\$61,700	Postsecondary nondegree award & less than 1 month	None
Total	991	45	5%	100	-	-	-	-	-

Source: EMSI 2018.4

<sup>\*</sup>Entry Hourly is 25th percentile wage, the median is 50th percentile wage, experienced is 75th percentile wage.