

Set and Exhibit Designers

Labor Market Analysis: San Diego County

November 2018

Summary

According to available labor market information, there is a very small demand for more *Set and Exhibit Designers*. With a labor market demand of only 11 annual job openings and a program supply of 32 awards, there appears to be an oversupply of labor for this occupation. With four colleges in San Diego County supplying awards for this occupation, creating another program could impact those programs.

The following list summarizes findings from the labor market analysis for *Set and Exhibit Designers*:

- Between 2017 and 2022, *Set and Exhibit Designers* are projected to increase by five jobs or five percent.
- Employers in San Diego County will need to hire 11 workers annually to fill new jobs and backfill jobs due to attrition such as retirement or turnover.
- Between 2010 and 2017, there is insufficient data for San Diego County to determine online job postings for *Set and Exhibit Designers*.
- *Set and Exhibit Designers* earn median hourly earnings of \$23.83; this is more than the Self-Sufficiency Standard for a single adult in San Diego County, which is \$15.99 per hour.
- According to the California Community Colleges Chancellor's Office Management Information System (MIS) Data Mart, there are three Taxonomy of Programs (TOP) code associated with this occupation: Technical Theater (100600), Applied Design (100900) and Interior Design and Merchandising (130200).
- According to the TOP data, four colleges supply the region with awards for this occupation: Grossmont College, MiraCosta College, Palomar College and San Diego Mesa College.
- Comparing labor demand (annual openings) with labor supply suggests that there is an oversupply for this occupation in San Diego County, with 11 annual openings and 32 awards. Comparatively, there are 443 annual openings in California and 440 awards.
- Between January 1, 2015 and December 31, 2017, the top five employers in San Diego County for this occupation were University of California San Diego, Reuben Fleet Science Center, San Diego Museum of Man, HKS and Petco.
- The typical entry-level education is a bachelor's degree.

Introduction

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

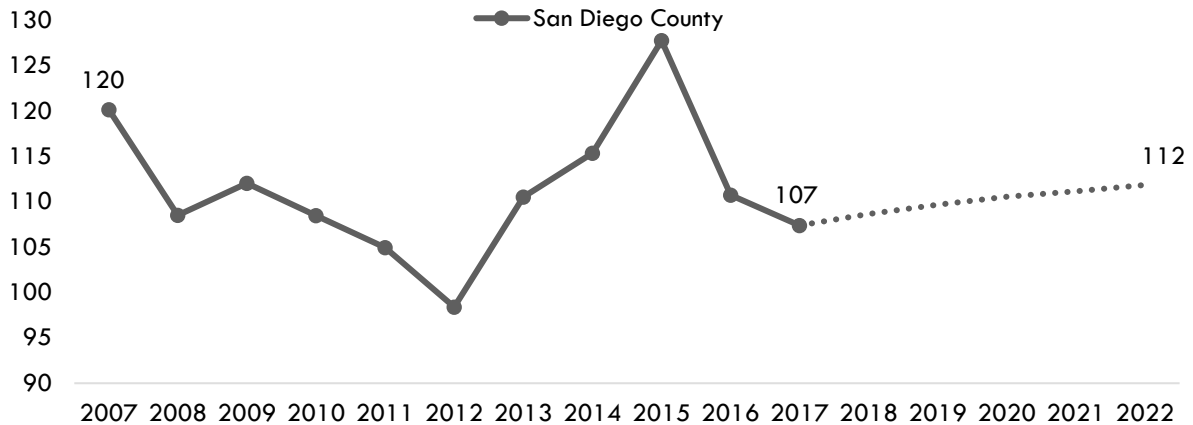
Set and Exhibit Designers (SOC 27-1027): Design special exhibits and movie, television, and theater sets. May study scripts, confer with directors, and conduct research to determine appropriate architectural styles. Sample reported job titles include:

- Set Decorator
- Scenic Designer
- Show Design Supervisor
- Production Designer
- Exhibit Preparator
- Display Coordinator
- Designer
- Design Chief

Projected Occupational Demand

Between 2017 and 2022, *Set and Exhibit Designers* are projected to increase by **five** jobs or **five** percent (Exhibit 1). Employers in San Diego County will need to hire **11** workers annually to fill new jobs and backfill jobs due to attrition such as retirement or turnover.

Exhibit 1: Number of Jobs for Set and Exhibit Designers (2007-2022)²



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 Economic Modeling Specialists, Int'l. (EMSI). San Diego (6073). 2018.03 Class of Worker. QCEW + Non-QCEW + Self-Employed. 2007-2022.

Online Job Postings

Between 2010 and 2017, there is insufficient data for San Diego County to determine online job postings for *Set and Exhibit Designers* (Exhibit 2).

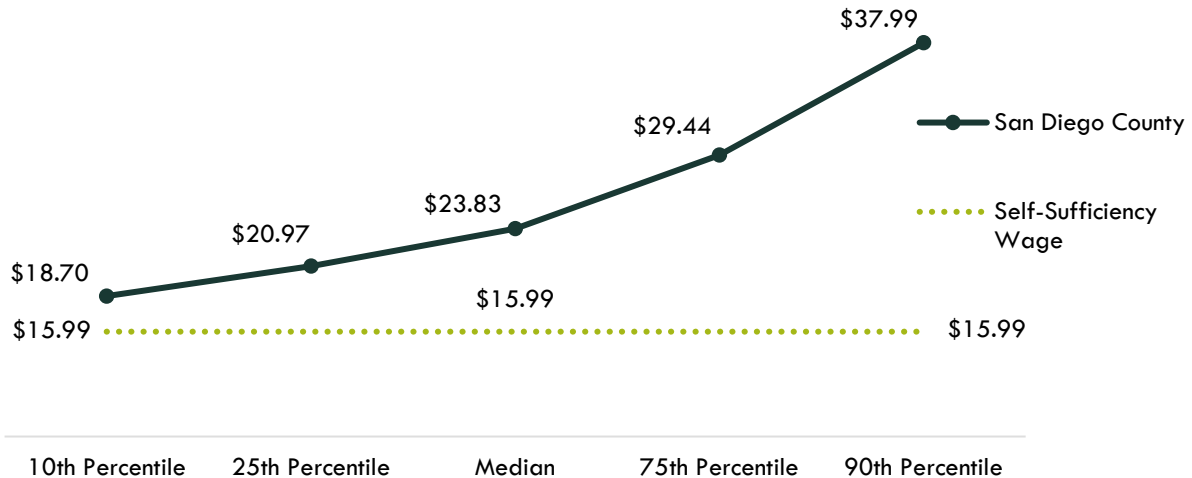
Exhibit 2: Number of Online Job Postings for *Set and Exhibit Designers* in San Diego County (2010-2017)³

0	0	0	0	0	0	0	0
2010	2011	2012	2013	2014	2015	2016	2017

Earnings

Set and Exhibit Designers earn median hourly earnings of **\$23.83**; 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 Earnings for *Set and Exhibit Designers* in San Diego County⁵



³ Labor Insight Jobs. Burning Glass Technologies. San Diego, CA. Full years 2010-2017.

⁴ The self-sufficient wage in San Diego for one adult is \$15.99. insightcced.org/2018-self-sufficiency-standard.

⁵ EMSI. San Diego (6073). 2018.03 Class of Worker. QCEW + Non-QCEW + Self-Employed. 2017-2022.

Educational Supply

Educational supply for an occupation can be estimated by analyzing the number of related program completers/graduates/awards in San Diego County. According to the California Community Colleges Chancellor's Office Management Information System (MIS) Data Mart, there are **three** Taxonomy of Programs (TOP) code associated with this occupation: Technical Theater (100600), Applied Design (100900) and Interior Design and Merchandising (130200) (Exhibit 4).

Exhibit 4: Related TOP Codes in San Diego County

SOC 27-1027: Set and Exhibit Designers

TOP 100600: Technical Theater

TOP 100900: Applied Design

TOP 130200: Interior Design and Merchandising

According to the TOP data, **four** colleges supply the region with awards for this occupation: **Grossmont College, MiraCosta College, Palomar College and San Diego Mesa College** (Exhibit 5).

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

TOP6	TOP6 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)
100600	Technical Theater	2	0	2
	Grossmont	0	0	
	MiraCosta	2	0	
	Palomar	0	0	
100900	Applied Design	0	0	0
130200	Interior Design and Merchandising	30	0	30
	Palomar	8	0	
	San Diego Mesa	22	0	
			Total	32

Demand vs. Supply

Comparing labor demand (annual openings) with labor supply⁶ suggests that there is an **oversupply** for this occupation in San Diego County, with **11** annual openings and **32** awards. Comparatively, there are **443** annual openings in California and **440** awards⁷ (Exhibit 6).

Exhibit 6: Labor Demand (Annual Openings) Compared to 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	11	32	21
California	443	440	3

Please note: This is a basic analysis of supply and demand of labor. 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. Additionally, the data does not include workers who are currently in the labor force who could fill these positions or workers who are not captured by publicly available data.

Student Outcomes

Based on the information available in the CTE LaunchBoard, students who took courses in the related TOP codes exhibited the following outcomes (Exhibit 7).

Exhibit 7: Strong Workforce Program Metrics for TOP 100600: Technical Theater in the San Diego-Imperial Region (PY2015-16)

Metric	San Diego-Imperial	California
Number of course enrollments ⁸	343	8,635
Completed 12+ CTE Units in One Year ⁹	22	596
Completed 48+ CTE Contact Hours in One Year ¹⁰	0	50
Number of students who got a degree or certificate ¹¹	N/A	74

⁶ Labor supply can be found in the California Community Colleges Chancellor's Office MIS Data Mart.

⁷ EMSI. San Diego (6073). 2018.03 Class of Worker. QCEW + Non-QCEW + Self-Employed. 2017-2022.

⁸ The number of enrollments in courses assigned to the TOP code in the selected year.

⁹ The number of students who completed 12 or more credit CTE units.

¹⁰ The number of students who completed 48 or more noncredit CTE instructional contact hours.

¹¹ The number of unduplicated students who earned a locally-issued certificate, Chancellor's Office approved certificate, associate degree, and/or California Community Colleges bachelor's degree in the selected TOP code.

Metric	San Diego-Imperial	California
Number of students who transferred ¹²	23	365
Employed in the second fiscal quarter after exit ¹³	78%	65%
Employed in the fourth fiscal quarter after exit ¹⁴	61%	64%
Job closely related to field of study ¹⁵	N/A	N/A
Median earnings in the second fiscal quarter after exit ¹⁶	\$3,687	\$4,759
Median change in earnings ¹⁷	96%	117%
Attained a living wage ¹⁸	N/A	20%

Top Employers and Work Locations

Between January 1, 2015 and December 31, 2017, the top five employers in San Diego County for this occupation were [University of California San Diego](#), [Reuben Fleet Science Center](#), [San Diego Museum of Man](#), [HKS](#) and [Petco](#) (Exhibit 8).

Exhibit 8: Top Employers in San Diego County for Set and Exhibit Designers

Top Employers
<ul style="list-style-type: none"> • University of California San Diego • Reuben Fleet Science Center • San Diego Museum of Man • HKS • Petco

¹² Students who took non-introductory courses or completed a California Community Colleges Chancellor's Office award in the selected TOP code in selected year who subsequently enrolled for the first time in a four-year institution the following year.

¹³ Among all exiters with a valid SSN, the percentage who were employed two quarters after exiting California Community Colleges.

¹⁴ Among exiting students with a valid SSN, the percentage who were employed four quarters after exiting California Community Colleges.

¹⁵ Among students who responded to the CTEOS, the percentage reporting employment in the same or similar field as their program of study.

¹⁶ Among exiting students, the median second-quarter earnings one year after the year in which they exited California Community Colleges.

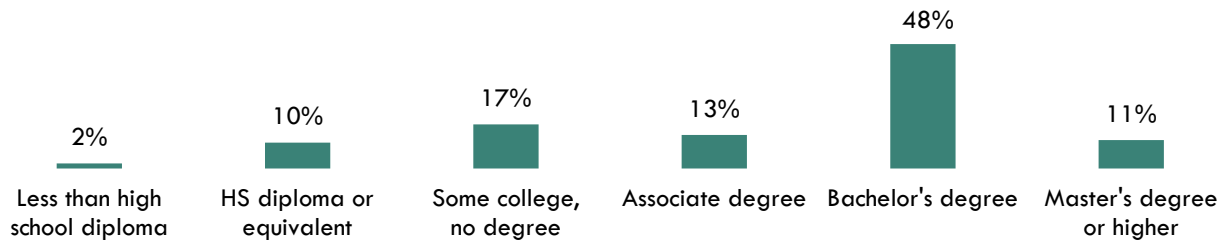
¹⁷ Among exiting students with a valid SSN, the percentage change in earnings one year before and one year after exiting California Community Colleges.

¹⁸ Among completers and skills builders who exited, the proportion of students who attained a living wage.

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 a [bachelor's degree](#).¹⁹

Exhibit 9: National Educational Attainment of Set and Exhibit Designers²⁰



*May not add to 100% due to rounding

Exhibit 10 lists the top specialized, soft and software skills that appeared in online job postings for between January 1, 2015 and December 31, 2017.

Exhibit 10: Top Skills for Set and Exhibit Designers in San Diego County²¹

Specialized Skills	Soft Skills	Software Skills
<ul style="list-style-type: none"> • Budgeting • Project Management • Customer Contact • Customer Service • Public Health and Safety 	<ul style="list-style-type: none"> • Creativity • Planning • Teamwork / Collaboration • Leadership • Bilingual 	<ul style="list-style-type: none"> • AutoCAD • Adobe Indesign • SketchUp • Visual Design • Apple Macintosh

Tina Ngo Bartel, Director
 John Edwards, Research Analyst
 San Diego-Imperial Center of Excellence
tngobartel@miracosta.edu
jedwards@miracosta.edu



¹⁹ EMSI. San Diego (6073). 2018.03 Class of Worker. QCEW + Non-QCEW + Self-Employed. 2017-2022.

²⁰ Bureau of Labor Statistics, Educational attainment for workers 25 years and older by detailed occupation. bls.gov/emp/ep_table_111.htm.

²¹ Labor Insight Jobs. Burning Glass Technologies. San Diego, CA. Full years 2015-2017.

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.