# FOOTHILL COLLEGE

# Theatre Arts

**Program Report**
**For Greater South Bay and Peninsula Region**
**(Santa Clara and San Mateo Counties)**

September 2016

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# Technical Theatre/Theatre Design and Technology

CIP 2010: A program that prepares individuals to apply artistic, technical and dramatic principles and techniques to the communication of dramatic information, ideas, moods, and feelings through technical theatre methods. Includes instruction in set design, lighting design, sound effects, theatre acoustics, scene painting, property management, costume design, and technical direction and production and use of computer applications to support these functions.

## Target Occupations‡

Set and Exhibit Designers (27-1027)

‡Based on EMSI crosswalk of the Classification of Instructional Programs (CIP) codes with Standard Occupational Classification (SOC) codes as published by the U.S. Department of Education.

In 2016, the number of Technical Theatre/Theatre Design and Technology jobs in the target occupations in Santa Clara and San Mateo Counties totaled 95. The Bureau of Labor Statistics (BLS) expects the total number of positions to increase by roughly 6% over the next three years.

## Occupation Summary for Technical Theatre/Theatre Design and Technology

| 95 | 6.3% | $18.97/hr |
|:---:|:---:|:---:|
| **Jobs (2016)[1]** | **% Change (2016-2019)[3]** | **Median Hourly Earnings** |
| 39% below National average[2] | Nation: 3.7% | Nation: $22.74/hr |

[1]Based on total number of jobs for target occupations in Santa Clara and San Mateo Counties.
[2]Represents occupation density as compared to national average (national average=1).
[3]Based on turnover and new jobs.

Target occupations that are mapped to the Technical Theatre/Theatre Design and Technology program are disaggregated to see which occupations are projected to see the highest number of annual openings (Set and Exhibit Designers), highest percentage rate of growth over the next three years (Set and Exhibit Designers), and the highest median hourly earnings (Set and Exhibit Designers). While Set and Exhibit Designers are expected to experience job growth (6%) these occupations are less represented and concentrated in our region (Santa Clara and San Mateo Counties) compared to the national average.

## Target Occupations

| Occupation | 2016 Jobs | Annual Openings | Median Hourly Earnings | Growth (2016 - 2019) | Location Quotient (2016) |
|---|---|---|---|---|---|
| Set and Exhibit Designers | 95 | 4 | $18.97/hr | 6.32% | 0.61 |

Growth in the Technical Theatre/Theatre Design and Technology occupations show how each occupation is projected to increase in jobs over the next three years. Modest growth is expected for Set and Exhibit Designers (6%).

## Growth for Set and Exhibit Designers (SOC 27-1027)

| 95 | 101 | 6 | 6.3% |
|:---:|:---:|:---:|:---:|
| **2016 Jobs** | **2019 Jobs** | **Change (2016-2019)** | **% Change (2016-2019)** |

## Regional Trends
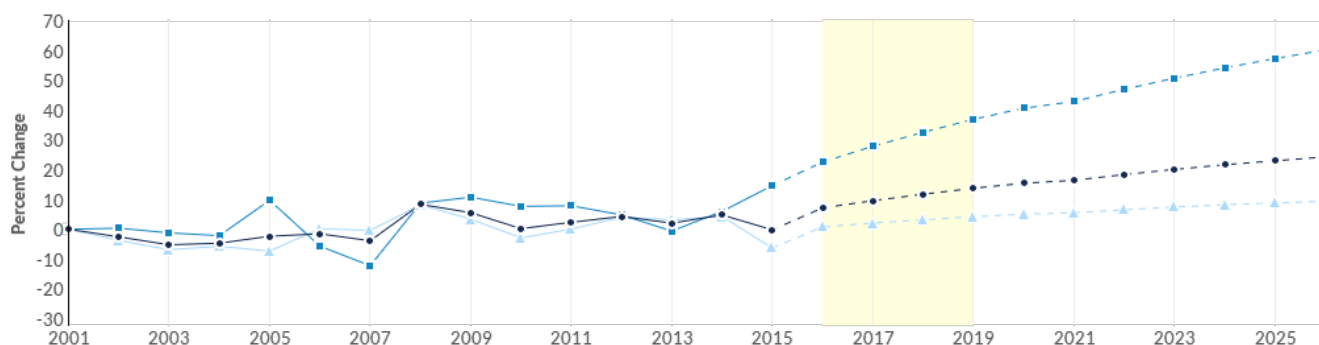


| | Region | 2016 Jobs | 2019 Jobs | Change | % Change |
|---|---|---:|---:|---:|---:|
| ● | Region | 95 | 101 | 6 | 6.3% |
| ● | San Mateo County, CA | 32 | 36 | 4 | 12.5% |
| ● | Santa Clara County, CA | 64 | 66 | 2 | 3.1% |

The percentile earnings table shows the range the Technical Theatre/Theatre Design and Technology occupations earn in the region. While the median earnings are almost $19/hour, wages can range from below $15/hour to above $24/hour.

## Percentile Earnings for Set and Exhibit Designers (27-1027)

| $15.05/hr | $18.97/hr | $24.23/hr |
|:---:|:---:|:---:|
| **25th Percentile Earnings** | **Median Earnings** | **75th Percentile Earnings** |
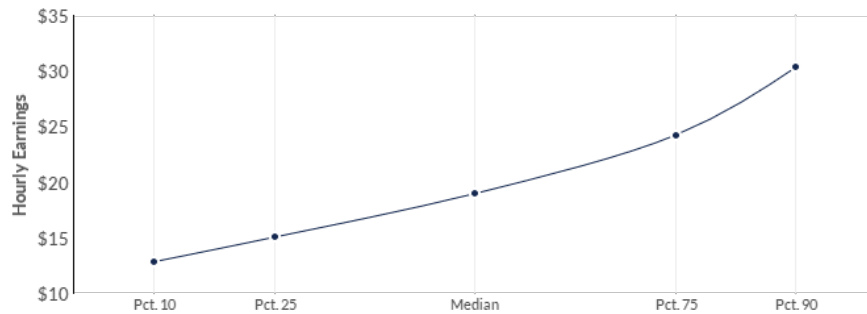
# Program Completion Data

Program data reviews completion information about awards by institution and types of awards conferred in the region (Santa Clara and San Mateo Counties). Foothill College is the one of three regional institutions that is supporting and preparing for Technical Theatre/Theatre Design and Technology occupations.

## Program Summary for Technical Theatre/Theatre Design and Technology

| 3 | 4 | 9 |
|:---:|:---:|:---:|
| **Regional Institutions** | **Regional Program Completions (2015)** | **Annual Openings (2015)** |
| had Completions in the last 13 years | Foothill College Completions: 3 | |

## Regional Completions by Institution

| Institution | Certificates (2015) | Degrees (2015) | Total Completions (2015) |
|---|---:|---:|---:|
| Foothill College | 1 | 2 | 3 |
| West Valley College | 0 | 1 | 1 |
| Gavilan College | 0 | 0 | 0 |

## Regional Completions by Award Level

| Award Level | Completions (2015) | Percent | |
|---|---:|---:|---|
| Award of at least 1 but less than 2 academic years | 1 | 25.0% | ▬ |
| Associates degree | 3 | 75.0% | ▬▬▬ |

# Target Occupations Demographics

The demographics among those employed in Technical Theatre/Theatre Design and Technology occupations in Santa Clara and San Mateo Counties for 2016 show that there is an almost even split among males (49%) and females (51%) and almost a third are between the ages of 25-34 (30%) and more than half are White (64%).

## Occupation Gender Breakdown

| Gender | 2016 Jobs | 2016 Percent | |
|--------|-----------|--------------|---|
| Males | 47 | 49.4% | |
| Females | 48 | 50.6% | |

## Occupation Age Breakdown

| Age | 2016 Jobs | 2016 Percent | |
|-----|-----------|--------------|---|
| 14-18 | 0 | 0.4% | |
| 19-24 | 6 | 6.7% | |
| 25-34 | 28 | 29.8% | |
| 35-44 | 25 | 25.9% | |
| 45-54 | 20 | 21.0% | |
| 55-64 | 12 | 12.1% | |
| 65+ | 4 | 4.0% | |

## Occupation Race/Ethnicity Breakdown

| Race/Ethnicity | 2016 Jobs | 2016 Percent | |
|----------------|-----------|--------------|---|
| White | 61 | 63.5% | |
| Asian | 18 | 19.0% | |
| Hispanic or Latino | 12 | 12.9% | |
| Two or More Races | 2 | 2.6% | |
| Black or African American | 2 | 1.7% | |
| Native Hawaiian or Other Pacific Islander | 0 | 0.2% | |
| American Indian or Alaska Native | 0 | 0.1% | |

## Industries Employing Technical Theatre/Theatre Design and Technology Occupations

A number of industries in Santa Clara and San Mateo Counties employ those trained in Technical Theatre/Theatre Design and Technology and its related occupations. The following table represents a regional industry breakdown of the number of Technical Theatre/Theatre Design and Technology positions employed, the percentage of Technical Theatre/Theatre Design and Technology employed by industry and the percentage Technical Theatre/Theatre Design and Technology jobs represent within all jobs by each industry. While the Motion Picture and Video Production industry employed 17% of all regional Technical Theatre/Theatre Design and Technology positions in 2016, set and exhibit designers compose a minority of all jobs in that industry (<1%).

## Industries Employing Set and Exhibit Designers

| Industry | Occupation Jobs in Industry (2016) | % of Occupation in Industry (2016) | % of Total Jobs in Industry (2016) |
|---|---|---|---|
| Motion Picture and Video Production | 16 | 16.7% | 0.7% |
| Independent Artists, Writers, and Performers | 14 | 14.5% | 0.5% |
| Graphic Design Services | <10 | 7.6% | 0.4% |
| Theater Companies and Dinner Theaters | <10 | 6.0% | 1.5% |
| Promoters of Performing Arts, Sports, and Similar Events with Facilities | <10 | 5.4% | 0.3% |

In an average month, there were 1 unique (internet) job postings for Technical Theatre/Theatre Design and Technology jobs, and 5 actually hired from January 2016 to August 2016. This means there was approximately 5 hires for every 1 unique (internet) job posting for occupations in Technical Theatre/Theatre Design and Technology. In cases where there were more hires than job postings, it suggests that the internet may not be the primary way that job openings for these occupations are advertised.

## Job Postings vs. Hires

| 1 | 5 |
|---|---|
| **Avg. Monthly Postings (Jan 2016 - Aug 2016)** | **Avg. Monthly Hires (Jan 2016 - Aug 2016)** |



| Occupation | Avg Monthly Postings (Jan 2016 - Aug 2016) | Avg Monthly Hires (Jan 2016 - Aug 2016) |
|---|---|---|
| Set and Exhibit Designers | 1 | 5 |
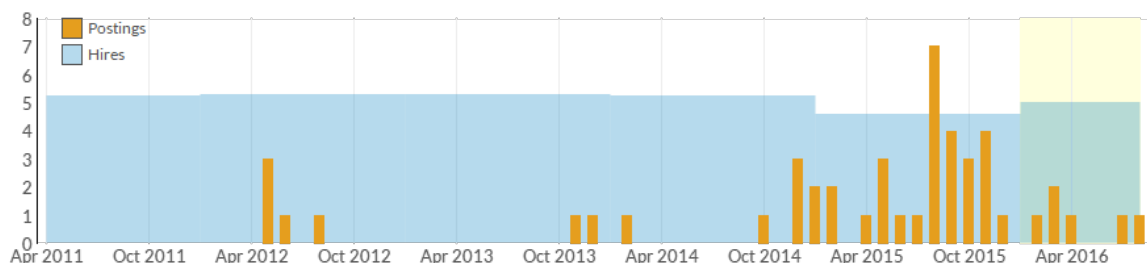
The top five concentrated hard and soft skills employers list in Theatre Art job posting descriptions are listed below. The "Postings with Skill" column is the total amount of (internet) job postings that mention the skills listed below. These numbers may be higher than the average monthly postings from above, because this number includes duplicated (internet) job postings. The "Concentration Score" gauge relevance of the skill by indicating the frequency in which this skill is being mentioned in (internet) job postings for Theatre Arts compared to all other (internet) job postings.

## Concentrated Hard Skills

| Skill | Concentration Score | Postings with Skill |
|---|---:|---:|
| Exhibitions | 698.66 | 4 |
| User Experience Design (UX) | 349.31 | 3 |
| Construction | 67.63 | 8 |
| Materials | 48.46 | 8 |
| Installations (Manual/Mechanical) | 48.14 | 8 |

## Concentrated Soft Skills

| Skill | Concentration Score | Postings with Skill |
|---|---:|---:|
| Creativity | 122.65 | 14 |

# Appendix A - Data Sources and Calculations

## Location Quotient

Location quotient (LQ) is a way of quantifying how concentrated a particular industry, cluster, occupation, or demographic group is in a region as compared to the nation. It can reveal what makes a particular region unique in comparison to the national average.

## Occupation Data

Emsi occupation employment data are based on final Emsi industry data and final Emsi staffing patterns. Wage estimates are based on Occupational Employment Statistics (QCEW and Non-QCEW Employees classes of worker) and the American Community Survey (Self-Employed and Extended Proprietors). Occupational wage estimates also affected by county-level Emsi earnings by industry.

## Completers Data

The completers data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.

## Institution Data

The institution data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.

## CareerBuilder/Emsi Job Postings

Job postings are collected from various sources and processed/enriched by Careerbuilder to provide information such as standardized company name, occupation, skills, and geography. Emsi performs additional filtering and processing to improve compatibility with Emsi data.

## State Data Sources

This report uses state data from the following agencies: California Labor Market Information Department