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# **Regional Economic Sector and Skills Gap Analysis: Stanislaus County**

*Prepared for:*

**Stanislaus County Workforce Alliance**

*Prepared by:*

**Applied Development Economics, Inc.**

1756 Lacassie Avenue, Suite 100, Walnut Creek, CA 94596 ■ 925.934.8712

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# INTRODUCTION

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Prepared under the auspices of the Central California Workforce Collaborative (CCWC), this report provides trend information and projections for jobs in Stanislaus County by industry sector, industry clusters, and occupational openings. The analysis also provides a description of key labor force characteristics in the County and discusses the match between education and occupational background for the unemployed and part time workforce in relation to projected job openings.

## SUMMARY OF FINDINGS

### **JOB GROWTH**

- Unemployment reached 9.3% in 2015, well below the 2010 peak of 16.9% but still above the 2006 low point of 8.0%. Total labor force grew by nearly 17,000 workers between 2006 and 2015.
- Jobs in the county grew to 175,753 in 2015, exceeding the 2007 peak, but still 65,489 job below total labor force and 43,027 below the employed labor force.
- In terms of employment growth for 2015-2025, the major job gains are projected for health care (5,995 new jobs), retail (3,789 new jobs) and food services (2,345 new jobs).
- The Wholesale, Warehousing and Transportation sectors are also projected to show relatively strong growth (3,117 new jobs combined).
- Education (1,698 new jobs) and professional, technical, scientific services (1,538 new jobs) round out the sectors projected to gain at least 100 new jobs per year between 2015 and 2025.
- Manufacturing is projected to add 649 new jobs after losing 1,445 jobs between 2010 and 2015. Most of the new jobs are in food processing industries.
- From an industry cluster perspective, the Health and Wellness cluster has the highest projected jobs growth (6,051 new jobs). About 45 percent of these jobs are in health care delivery, including doctor's offices, medical clinics and hospitals. The remainder is in various services, with nearly 2,800 new jobs in services for the elderly and disabled.
- The Agriculture cluster, including food processing and distribution also has a relatively high projected job growth at 5,563 new jobs. More than 40 percent, or 2,407, of these jobs are in distribution activities. Food processing is also projected to show substantial net job growth, led by wineries with 729 new jobs, and cheese manufacturing with 143 new jobs. Other food processing sectors are projected to decline, however, including canned fruit and vegetables and dehydrated or dried products. Corrugated box manufacturing is projected to add 452 new jobs while metal can production is projected to lose 270 jobs.

- As noted in the sector summary above, there is also substantial job growth projected in logistics and in the retail and leisure sectors (accommodations and food service).
- Accordingly, the projections of job openings are heavily concentrated in sales (1,008 annual openings), food services (840 annual openings) and transportation and materials handling (594 annual openings). Other high demand occupations include health care (586 annual openings) and office support (818 annual openings). There is projected to be almost 300 annual openings in production, installation and maintenance occupations, as well as education and business and financial operations occupations.
- For each of these occupational categories, the report also indicates the number of unemployed and part time workers in the County that meet the minimum educational requirements for the projected job openings. These workers may need more specialized training in order to transition into these jobs.

#### **LABOR FORCE CHARACTERISTICS**

- The labor force in Stanislaus County is generally evenly distributed among age groups, with 16 percent in the 16-24 age group and nearly 23 percent of the 25-34 age group. The prime working age group of 35-54 has 43 percent of the workforce, which is as concentrated on a year to year basis as the younger age groups. Workers over 55 constitute about 18 percent of the workforce and a number of employers report that impending retirements are a significant issue for them in terms of anticipated openings in the future.
- Non-citizen workers constitute 18.4 percent of the workforce in Stanislaus County, though the rate varies with age. At 21.4 percent of the prime working-age labor force (35-54), non-citizens are more concentrated in this cohort relative to their overall concentration level, i.e. 18.4 percent.
- The Stanislaus County workforce exhibits comparable educational attainment to the rest of the San Joaquin Valley region. About 81 percent of workers 25 years and older have at least a high school diploma or equivalent and 27.3 percent have a college degree.
- Non-citizens 25 and over exhibit high rates of less than high school attainment level at 59 percent. Twenty-two percent of non-citizens in the labor force have earned a high school diploma or equivalent, although this rate is almost seven percentage points lower than the rate for citizens (i.e. 29 percent). This accounts in part for the differences in educational attainment between Latino workers and other workers in the labor force (Figure 6), as the non-citizen group is 86 percent Latino. It is also important to note that Latinos have earned high school diplomas and GEDs at rates similar to persons in the labor force who are White, i.e. 28.5 percent.
- Veterans in Stanislaus County tend to have high levels of overall educational attainment, with approximately three percent not achieving a high school diploma. For the workforce as a whole, 19 percent do not have a high school diploma or equivalent degree. Among disabled workers, however, nearly 16 percent do not have a high school diploma.

## CONCLUSION

At 1.3 percent a year, Stanislaus County is expected to grow modestly from now to 2025, although analysts project a number of sectors including, Logistics, Professional and Technical Services and Health Care, among others, to exhibit higher growth rates. However, qualified workers are in short supply for certain key job categories. Based on the analysis presented in this report and discussions with key employers and workforce training organizations, the following can be identified as potential priorities for additional training efforts.

- Medical Technicians
- Electricians
- Maintenance Mechanics
- Ability to use computer operated processing controls and instruments (and related English competency)
- Workers with supervisory, management and business skills

# ECONOMIC TRENDS

## POPULATION AND EMPLOYMENT TRENDS

The County unemployment rate has declined to 9.3 percent in 2015, down from the peak of 16.9 percent in 2010, but still well above the low point before the recession of 8.0 percent in 2006 (Table 1). While employment levels have been increasing since 2010, the size of the labor force has oscillated since 2008, even trending downward since 2010. In 2008, the County labor force was at 231,700, then went up considerably to 242,900 in 2010, only to decline each year afterward to the 241,242 persons in 2015.

**Table 1 — Annual Labor Force Trends, 2000-2015: Stanislaus County**

Period	Labor Force Trends	Employed Labor Force	Unemployment Rate
08-15 Annual Growth Rate	0.6%	0.9%	13.9%
00-08 Annual Growth Rate	1.4%	0.9%	9.2%
2015	241,242	218,775	9.3%
2014	241,400	214,400	11.2%
2013	241,700	210,400	12.9%
2012	242,300	206,100	14.9%
2011	242,000	202,100	16.5%
2010	242,900	201,800	16.9%
2009	234,500	198,100	15.5%
2008	231,700	206,000	11.1%
2007	226,900	207,200	8.7%
2006	224,300	206,400	8.0%
2005	226,600	207,600	8.4%
2004	223,700	203,100	9.2%
2003	221,700	200,000	9.8%
2002	219,100	198,000	9.6%
2001	214,100	196,200	8.4%
2000	208,000	191,700	7.8%

*Source: Applied Development Economics, based on CA EDD LMID. Note: Unemployment rates for 2000-2008 and 2008-2015 in the table above are annual averages, not annual growth rate.*

The household population has increased by 0.9 percent annually between 2010 and 2015 – a rate on par with the annual growth rate for the multi-county CCWC region as a whole (Table 2). Household population growth in the San Joaquin Valley exceeded statewide growth rates between 2011 and 2013, but has slowed in the past two years. As shown in Figure 1, Stanislaus County is projected to grow slightly faster than the CCWC region as a whole over the next five years (2015-2020), which will have implications for some employment sectors, as discussed below.



**Table 2 – Total and Household Population Trends:  
Stanislaus County, CCWC Region, and California**

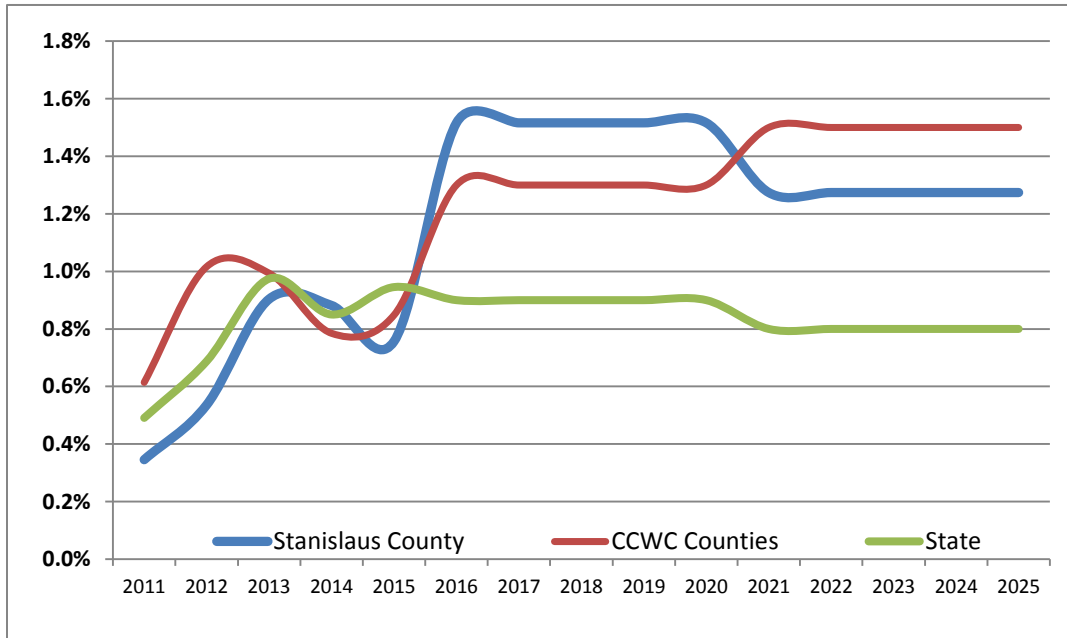
Year	Household Population					
	Stanislaus County	Growth Rate	CCWC Counties	Growth Rate	State ('000)	Growth Rate
2010	508,148		3,888,941		36,412	
2011	509,905	0.7%	3,912,829	0.6%	36,591	0.5%
2012	512,639	1.0%	3,952,595	1.0%	36,843	0.7%
2013	517,272	0.9%	3,991,868	1.0%	37,202	1.0%
2014	521,832	0.9%	4,023,198	0.8%	37,518	0.9%
2015	525,781	0.9%	4,057,322	0.8%	37,873	0.9%
10-15	17,633	0.9%	168,381	0.9%	1,461	0.8%

Year	Total Population					
	Stanislaus County	Annual Growth Rates	CCWC Counties	Growth Rate	State ('000)	Growth Rate
2010	514,453		4,004,407		37,254	
2011	516,244	0.6%	4,025,282	0.5%	37,428	0.5%
2012	519,105	0.9%	4,058,833	0.8%	37,681	0.7%
2013	523,707	0.9%	4,094,785	0.9%	38,031	0.9%
2014	528,157	0.9%	4,129,749	0.9%	38,357	0.9%
2015	532,297	0.9%	4,165,560	0.9%	38,715	0.9%
10-15	17,844	0.9%	161,153	0.8%	1,461	0.8%

*Source: ADE, Inc., based on California DOF E-5 and P-3 series*

Before the recession, total jobs in the County peaked at 175,125 in 2007 and reached that level again only recently in 2015. The annual average number of jobs in 2015 is estimated at 175,753 (Table 3). Through 2008, total jobs in the County were growing at a 0.8 annual percentage rate, while since 2008, the number of jobs have grown at an even more tepid pace of 0.2 percent per year.

**Figure 1 – Household Population Annual Growth Rates**



Source: ADE, based on California DOF E5 and P3 data series

**Table 3 – Trends in Total Number of Jobs:  
2000-2015: Stanislaus County**

Period	Total Employment
08-15	0.2%
00-08	0.8%
2015	175,753
2014	172,907
2013	168,475
2012	164,187
2011	160,638
2010	160,624
2009	162,343
2008	172,713
2007	175,125
2006	174,431
2005	173,937
2004	169,344
2003	166,988
2002	166,022
2001	164,473
2000	162,674

Source: ADE, based on CA EDD LMID

Farm employment grew at a 2.0 percent annual rate between 2010 and 2015 but is projected to increase at a slower rate of 0.6 percent over the next ten years (Table 4). Despite these overall trends, some job growth is projected in farm support (NAICS 115), especially within machine crop harvesting (NAICS 115113), post-harvest crop activities (NAICS 115114), and farm management services (NAICS 115116) (Table 5). A number of factors affect farm employment including availability of water and continued mechanization of farming operations. In addition, employers interviewed for this study indicated that the new state minimum wage law will affect employment opportunities in both farming and food processing and related industries. In addition, current efforts in the State Assembly to limit the agricultural work day are seen as a threat to employment growth.

Manufacturing industries in Stanislaus County are mainly in food processing. Manufacturing jobs declined by more than 1,075 jobs between 2010 and 2015, from 20,587 in 2010 to 19,412 in 2015. This sector is expected to increase over the next ten years, increasing by approximately 650 new jobs. Within manufacturing, food processing (NAICS 311-312) is expected to slightly decline by 0.4 percent a year between 2015 and 2025. While overall food processing is projected to decline slightly in the coming years, there are specific industries that are slated to grow. Food manufacturing industries such as cheese manufacturing (NAICS 311513), other snack food manufacturing (NAICS 311919), soft drink manufacturing (NAICS 312111), and wineries (312130) are expected to increase. Other ag- and food-related manufacturing industries expected to include wood container and pallet manufacturing (NAICS 326199) and corrugated and solid fiber box manufacturing (NAICS 322211) (Table 5).

A number of non-food processing manufacturing industries are also projected to produce new jobs. Other plastic manufacturing (NAICS 326199) and fabricated structural metal manufacturing (NAICS 332312) are projected each to increase by over 100 new jobs between 2015 and 2025.

The construction industry continued to grow coming out of the recession over the past five years, and is projected to grow over the next ten years as well (Table 4). Single-family residential construction (NAICS 236115) and multi-family construction (NAICS 236116) are expected to grow during this period, which is consistent with expected population growth for the county over the next ten years (Table 5).

**Table 4 — Employment Trends and Projections By Sectors:  
Stanislaus County: 2010, 2015 and 2025 (projected)**

NAICS	INDUSTRY	EMPLOYMENT			CHANGE	ANN. GROWTH RATE	
		2010	2015	2025 PROJ.	15-25	10-15	15-25
	<b>Total</b>	<b>160,486</b>	<b>175,044</b>	<b>198,412</b>	<b>23,369</b>	<b>1.8%</b>	<b>1.3%</b>
11	Agriculture	12,660	14,007	14,944	937	2.0%	0.6%
21	Mining	25	52	66	13	16.1%	2.3%
22	Utilities	160	345	396	50	16.7%	1.4%
23	Construction	5,852	8,147	8,674	527	6.8%	0.6%
31-33	Manufacturing	20,587	19,142	19,791	649	-1.4%	0.3%
42	Wholesale	5,915	6,105	7,187	1,082	0.6%	1.6%
44-45	Retail	19,443	22,289	26,078	3,789	2.8%	1.6%
48	Warehousing	3,295	4,717	6,135	1,417	7.4%	2.7%

NAICS	INDUSTRY	EMPLOYMENT			CHANGE	ANN. GROWTH RATE	
		2010	2015	2025 PROJ.	15-25	10-15	15-25
49	Transportation	3,079	2,568	3,186	618	-3.6%	2.2%
51	Information	1,191	914	901	-13	-5.2%	-0.1%
52	Finance and Insurance	3,293	3,047	2,955	-92	-1.5%	-0.3%
53	Real Estate and Leasing	2,132	2,282	2,682	400	1.4%	1.6%
54	Prof., Scientific, Tech.	4,632	5,835	7,373	1,538	4.7%	2.4%
55	Mgt. of Companies	1,953	1,326	546	-779	-7.5%	-8.5%
561	Admin Support	5,608	7,357	8,740	1,383	5.6%	1.7%
562	Waste Mgt.	455	539	717	178	3.4%	2.9%
61	Education	16,923	17,217	18,916	1,698	0.3%	0.9%
62	Health	21,819	28,650	34,646	5,995	5.6%	1.9%
71	Arts, Rec., Entertnmnt	1,457	1,722	2,011	289	3.4%	1.6%
721	Accommodations	671	722	766	44	1.5%	0.6%
722	Food, Drinking Srv	12,347	14,522	16,867	2,345	3.3%	1.5%
81	Other Services	7,580	3,946	4,480	534	-12.2%	1.3%
92	Public (excpt. Military)	9,140	9,145	9,888	742	0.0%	0.8%
98	Military	11	8	----		-6.2%	----
99	Misc.	257	438	470	32	11.3%	0.7%

Source: Applied Development Economics, based on EMSI. Note: Military employment from CA EDD LMID. EMSI does not include military employment and projections

The Health Services sector is projected to see strong employment growth over the next ten years. This is a consistent finding throughout the San Joaquin Valley as well as nationally and reflects both demographic trends with the aging Baby Boomer population as well as industry trends to institute managed care with more outpatient and home health care. Employment in Health Services is projected to grow to 34,646 in 2025 from 28,650 in 2015, for an annual rate of growth of 1.9 percent (Table 4). In an effort to accurately characterize the state of employment in the sector in Stanislaus County, employment in Health Services includes employed persons in the public sector, who for purposes of analysis were moved out of NAICS 92 (Public Administration) and into NAICS 62 (Health Services). Another population based trend is the increase in retail and food services jobs. Both these sectors have been recovering from the recession over the past five years, and are projected to see more moderate growth over the next ten years.

Table 5 provides more detail on projected fast growing industries in Stanislaus County.

**Table 5 — Employment Projections For Industries Expected to Grow By 50 or More Jobs Between 2015 and 2025: Stanislaus County**

NAICS	INDUSTRY	2015	2015 PROJ.	CHANGE	ANN. PER. CHG.	RANK
	<b>Total</b>	<b>119,633</b>	<b>148,955</b>	<b>29,322</b>	<b>2.2%</b>	
111000	Crop Production	4,807	5,345	538	1.1%	14
115113	Crop Harvesting, Primarily by Machine	352	440	88	2.3%	82
115114	Postharvest Crop Activities (except Cotton Ginning)	1,628	2,231	604	3.2%	11
115116	Farm Management Services	404	467	63	1.5%	104
	<b>11 Agric.</b>	<b>7,191</b>	<b>8,484</b>	<b>1,294</b>	<b>1.7%</b>	
221210	Natural Gas Distribution	297	390	92	2.7%	76
	<b>22 Utilities</b>	<b>297</b>	<b>390</b>	<b>92</b>	<b>2.7%</b>	
236115	New Single-Family Housing Construction (except For-Sale Builders)	853	1,390	537	5.0%	15
236116	New Multifamily Housing Construction (except For-Sale Builders)	39	89	50	8.7%	120
236220	Commercial and Institutional Building Construction	566	628	62	1.0%	107
238210	Electrical Contractors and Other Wiring Installation Contractors	1,116	1,311	194	1.6%	39
238220	Plumbing, Heating, and Air-Conditioning Contractors	1,255	1,591	337	2.4%	25
238290	Other Building Equipment Contractors	340	523	183	4.4%	42
238320	Painting and Wall Covering Contractors	611	876	265	3.7%	30
	<b>23 Const.</b>	<b>4,779</b>	<b>6,407</b>	<b>1,628</b>	<b>3.0%</b>	
311340	Nonchocolate Confectionery Manufacturing	76	162	86	7.8%	86
311513	Cheese Manufacturing	485	631	146	2.7%	54
311919	Other Snack Food Manufacturing	561	650	89	1.5%	81
312111	Soft Drink Manufacturing	204	304	100	4.1%	71
312130	Wineries	3,209	3,933	724	2.1%	7
321920	Wood Container and Pallet Manufacturing	247	334	87	3.1%	85
322211	Corrugated and Solid Fiber Box Manufacturing	966	1,426	460	4.0%	18
325193	Ethyl Alcohol Manufacturing	66	128	62	6.8%	109
326199	All Other Plastics Product Manufacturing	245	422	177	5.6%	45
327320	Ready-Mix Concrete Manufacturing	203	275	72	3.1%	93
332312	Fabricated Structural Metal Manufacturing	266	422	156	4.7%	48
332322	Sheet Metal Work Manufacturing	151	206	55	3.2%	115
333111	Farm Machinery and Equipment Manufacturing	365	442	77	1.9%	91
	<b>31-33 Man.</b>	<b>7,045</b>	<b>9,334</b>	<b>2,289</b>	<b>2.9%</b>	
423310	Lumber, Plywood, Millwork, and	105	172	67	5.0%	100

NAICS	INDUSTRY	2015	2015 PROJ.	CHANGE	ANN. PER. CHG.	RANK
	Wood Panel Merchant Wholesalers					
423850	Service Establishment Equipment and Supplies Merchant Wholesalers	158	220	62	3.4%	106
423860	Transportation Equipment and Supplies (except Motor Vehicle) Merchant Wholesalers	144	268	124	6.4%	60
423930	Recyclable Material Merchant Wholesalers	243	427	184	5.8%	41
424320	Men's and Boys' Clothing and Furnishings Merchant Wholesalers	171	243	72	3.6%	94
424470	Meat and Meat Product Merchant Wholesalers	141	253	112	6.0%	63
424490	Other Grocery and Related Products Merchant Wholesalers	641	717	75	1.1%	92
424820	Wine and Distilled Alcoholic Beverage Merchant Wholesalers	383	720	338	6.5%	24
424910	Farm Supplies Merchant Wholesalers	479	571	92	1.8%	77
425120	Wholesale Trade Agents and Brokers	519	613	94	1.7%	74
	<b>42 Wholesale</b>	<b>2,985</b>	<b>4,205</b>	<b>1,220</b>	<b>3.5%</b>	
441120	Used Car Dealers	412	643	231	4.6%	34
441310	Automotive Parts and Accessories Stores	701	803	102	1.4%	69
442299	All Other Home Furnishings Stores	200	288	88	3.7%	83
443142	Electronics Stores	752	1,105	353	3.9%	23
444110	Home Centers	1,177	1,424	247	1.9%	31
444130	Hardware Stores	393	537	144	3.2%	56
444190	Other Building Material Dealers	854	1,153	299	3.0%	27
445110	Supermarkets and Other Grocery (except Convenience) Stores	3,483	3,780	298	0.8%	28
445120	Convenience Stores	196	258	63	2.8%	105
445291	Baked Goods Stores	97	169	72	5.7%	95
446110	Pharmacies and Drug Stores	1,072	1,231	160	1.4%	47
446120	Cosmetics, Beauty Supplies, and Perfume Stores	254	406	152	4.8%	50
446130	Optical Goods Stores	175	300	125	5.5%	59
448120	Women's Clothing Stores	541	926	385	5.5%	21
448130	Children's and Infants' Clothing Stores	109	161	52	4.0%	118
452112	Discount Department Stores	2,682	3,588	906	3.0%	5
452910	Warehouse Clubs and Supercenters	1,201	1,824	623	4.3%	9
452990	All Other General Merchandise Stores	539	689	151	2.5%	51
	<b>44-45 Retail</b>	<b>14,838</b>	<b>19,285</b>	<b>4,448</b>	<b>2.7%</b>	
484110	General Freight Trucking, Local	639	733	95	1.4%	72
484121	General Freight Trucking, Long-	1,133	1,584	451	3.4%	19

NAICS	INDUSTRY	2015	2015 PROJ.	CHANGE	ANN. PER. CHG.	RANK
	Distance, Truckload					
484122	General Freight Trucking, Long-Distance, Less Than Truckload	301	388	87	2.6%	84
484230	Specialized Freight (except Used Goods) Trucking, Long-Distance	207	357	150	5.6%	52
485113	Bus and Other Motor Vehicle Transit Systems	357	596	239	5.3%	32
485991	Special Needs Transportation	334	514	180	4.4%	44
488210	Support Activities for Rail Transportation	247	360	113	3.8%	62
488410	Motor Vehicle Towing	153	246	93	4.8%	75
	<b>48 Trans.</b>	<b>3,372</b>	<b>4,780</b>	<b>1,408</b>	<b>3.6%</b>	
492210	Local Messengers and Local Delivery	109	173	64	4.7%	102
493110	General Warehousing and Storage	1,255	1,842	587	3.9%	13
493120	Refrigerated Warehousing and Storage	350	411	61	1.6%	110
	<b>49 Warehousing</b>	<b>1,714</b>	<b>2,426</b>	<b>712</b>	<b>3.5%</b>	
517110	Wired Telecommunications Carriers	344	491	146	3.6%	53
	<b>51 Information</b>	<b>344</b>	<b>491</b>	<b>146</b>	<b>3.6%</b>	
522110	Commercial Banking	834	919	86	1.0%	87
522130	Credit Unions	301	385	84	2.5%	88
	<b>52 Fin. And Insr.</b>	<b>1,134</b>	<b>1,304</b>	<b>170</b>	<b>1.4%</b>	
531210	Offices of Real Estate Agents and Brokers	403	460	57	1.3%	113
531311	Residential Property Managers	382	488	106	2.5%	65
531312	Nonresidential Property Managers	105	156	51	4.0%	119
	<b>53 R.E. and Leasing</b>	<b>890</b>	<b>1,104</b>	<b>214</b>	<b>2.2%</b>	
541110	Offices of Lawyers	693	797	104	1.4%	66
541219	Other Accounting Services	1,181	1,562	381	2.8%	22
541310	Architectural Services	154	210	56	3.1%	114
541380	Testing Laboratories	246	324	78	2.8%	90
541511	Custom Computer Programming Services	221	335	114	4.2%	61
541512	Computer Systems Design Services	133	223	89	5.3%	80
541519	Other Computer Related Services	99	169	70	5.4%	97
541614	Process, Physical Distribution, and Logistics Consulting Services	54	107	53	7.0%	116
541690	Other Scientific and Technical Consulting Services	581	1,073	492	6.3%	16
541720	Research and Development in the Social Sciences and Humanities	101	192	92	6.7%	78
541940	Veterinary Services	612	744	132	2.0%	58
	<b>54 Prof., Sci., Tech.</b>	<b>4,077</b>	<b>5,737</b>	<b>1,660</b>	<b>3.5%</b>	
561110	Office Administrative Services	464	606	143	2.7%	57

NAICS	INDUSTRY	2015	2015 PROJ.	CHANGE	ANN. PER. CHG.	RANK
561210	Facilities Support Services	117	211	94	6.1%	73
561320	Temporary Help Services	2,659	3,837	1,178	3.7%	4
561422	Telemarketing Bureaus and Other Contact Centers	254	399	145	4.6%	55
561720	Janitorial Services	893	1,306	413	3.9%	20
562111	Solid Waste Collection	307	487	180	4.7%	43
	<b>56 Admin, Support, Waste</b>	<b>4,693</b>	<b>6,846</b>	<b>2,153</b>	<b>3.8%</b>	
611110	Elementary and Secondary Schools	588	861	273	3.9%	29
611310	Colleges, Universities, and Professional Schools	104	163	59	4.6%	111
611430	Professional and Management Development Training	121	274	154	8.6%	49
611511	Cosmetology and Barber Schools	112	183	71	5.0%	96
611513	Apprenticeship Training	85	147	62	5.6%	108
	<b>61 Education</b>	<b>1,010</b>	<b>1,627</b>	<b>618</b>	<b>4.9%</b>	
621111	Offices of Physicians (except Mental Health Specialists)	3,417	3,610	192	0.5%	40
621210	Offices of Dentists	1,529	1,596	66	0.4%	101
621340	Offices of Physical, Occupational and Speech Therapists, and Audiologists	263	315	52	1.8%	117
621410	Family Planning Centers	220	329	109	4.1%	64
621491	HMO Medical Centers	2,089	3,272	1,183	4.6%	3
621492	Kidney Dialysis Centers	243	333	90	3.2%	79
621512	Diagnostic Imaging Centers	174	241	68	3.3%	99
621610	Home Health Care Services	1,163	1,766	602	4.3%	12
621910	Ambulance Services	498	601	103	1.9%	67
621999	All Other Miscellaneous Ambulatory Health Care Services	129	229	100	5.9%	70
622110	General Medical and Surgical Hospitals	6,288	6,520	232	0.4%	33
623110	Nursing Care Facilities (Skilled Nursing Facilities)	2,329	2,803	474	1.9%	17
624110	Child and Youth Services	744	1,073	328	3.7%	26
624120	Services for the Elderly and Persons with Disabilities	5,185	7,968	2,783	4.4%	1
624190	Other Individual and Family Services	299	368	69	2.1%	98
	<b>62 Health</b>	<b>24,572</b>	<b>31,023</b>	<b>6,452</b>	<b>2.4%</b>	
713910	Golf Courses and Country Clubs	245	302	58	2.1%	112
713940	Fitness and Recreational Sports Centers	978	1,180	201	1.9%	37
	71 Arts, Enter., Rec.	1,223	1,482	259	1.9%	
722511	Full-Service Restaurants	5,431	6,036	605	1.1%	10
722513	Limited-Service Restaurants	7,205	8,722	1,516	1.9%	2
722515	Snack and Nonalcoholic Beverage Bars	1,120	1,340	219	1.8%	36
	<b>72 Accommodations and Food</b>	<b>13,757</b>	<b>16,097</b>	<b>2,340</b>	<b>1.6%</b>	



NAICS	INDUSTRY	2015	2015 PROJ.	CHANGE	ANN. PER. CHG.	RANK
811111	General Automotive Repair	540	736	196	3.1%	38
811121	Automotive Body, Paint, and Interior Repair and Maintenance	357	459	102	2.5%	68
811192	Car Washes	341	420	79	2.1%	89
812113	Nail Salons	203	366	163	6.1%	46
	<b>81 Other Svcs.</b>	<b>1,441</b>	<b>1,981</b>	<b>540</b>	<b>3.2%</b>	
902612	Colleges, Universities, and Professional Schools (State Government)	1,241	1,468	227	1.7%	35
903611	Elementary and Secondary Schools (Local Government)	13,123	13,767	643	0.5%	8
903612	Colleges, Universities, and Professional Schools (Local Government)	1,265	1,329	63	0.5%	103
903999	Local Government, Excluding Education and Hospitals	8,641	9,387	746	0.8%	6
	<b>90 Public</b>	<b>24,271</b>	<b>25,950</b>	<b>1,680</b>	<b>0.7%</b>	

Source: Applied Development Economics, based on EMSI

## INDUSTRY CLUSTERS

The San Joaquin Valley has defined a number of regional industry clusters that are significant components of the regional economic base, which are listed in Table 6 below. Industry clusters represent traded sectors in the regional economy and typically are the source of most of the income and wealth for the region as well as the areas where innovation occurs most frequently. In Stanislaus County, Agriculture and Health Care are the two largest industry clusters. For this study, we have also included the retail sector and the accommodations and food services sector to reflect job opportunities in the local-serving and tourism industries.

The Agriculture cluster includes not only farm production, but also food processing, related distribution and logistics, and a variety of agricultural services that include fertilizers, irrigation, soil testing, veterinary services, and marketing among others (Detailed cluster and sub-cluster employment data are in the Appendix at "Detailed Industry Cluster Employment Projections"). This cluster cuts across several of the major industry groups shown in Table 4 above. In addition, several agricultural support industries closely related to field operations are also projected to reduce jobs, as shown in Table 7 below. However, within the broader Agricultural cluster, a number of food processing industries are projected to increase employment, as indicated in the previous section. In addition, the agriculture related distribution (logistics) sector is projected to add about 2,200 jobs over the next ten years.

The Health and Wellness cluster is projected to add almost 6,000 jobs by 2025 (Table 6). Of the 6,000 new jobs, almost 2,800 (44 percent) will occur in the Health Care – Delivery sub-cluster. Within this sub-cluster, the number of jobs in HMO medical centers is projected to increase by 1,200 new jobs, with another 1,000 new jobs projected for home health services (NAICS 621610) and nursing care facilities (NAICS 623110). Jobs in hospitals (NAICS 622110) are expected to increase by over 200 new jobs. (See Appendix Table A-6 and A-7 for detail on industries with lower job projections).

**Table 6 — Employment Projections By Industry Clusters: Stanislaus County**

INDUSTRY CLUSTER	EMPLOYMENT		CHANGE	ANN. PER. CHG.
	2015	2025 PROJ.	15-25	
Total	135,967	157,640	21,673	1.5%
Energy	10,453	12,029	1,576	1.4%
Manufacturing	1,050	1,130	80	0.7%
Health and Wellness	28,840	34,890	6,051	1.9%
Agriculture	49,479	55,042	5,563	1.1%
Water Flow Technology	1,232	1,442	209	1.6%
Logistics	6,791	8,948	2,157	2.8%
Retail	22,289	26,078	3,789	1.6%
Accommodations and Food Services	15,244	17,633	2,389	1.5%
Heavy Construction	591	451	-140	-2.7%

Source: ADE, based on EMSI Q4 QCEW and non-QCEW 2015 industry employment trends

In addition to tracking growing industries, our analysis also identifies industries that are expected to decline. Below are industries within various clusters expected to decline by 50 or more workers between 2015 and 2025. While food processing generally exhibits strong growth over the next ten years, there are several food processing industries within the Ag Cluster that expected to decline, such as fruit and vegetable canning (NAICS 311421), dried and dehydrated food manufacturing (NAICS 311423), and farm labor contractors (NAICS 115115). While overall employment in the Health and Wellness cluster is expected to grow robustly, vocational rehabilitation services (NAICS 624310) and other residential care facilities (NAICS 623990) are each projected to decline by 100 jobs.

**Table 7 — Industries Within Various Clusters That Are Expected to Decline Significantly Between 2015 and 2025: Stanislaus County**

CLUSTER	NAICS	INDUSTRY	EMPLOYMENT		CHANGE
			2015	2025 PROJ.	15-25
Ag and Food -- Distribution	424410	General Line Grocery Merchant Wholesalers	448	335	-112
Ag and Food -- Distribution	424810	Beer and Ale Merchant Wholesalers	74	16	-58
Ag and Food -- Processing	311119	Other Animal Food Manufacturing	409	356	-52
Ag and Food -- Processing	311421	Fruit and Vegetable Canning	1,977	1,512	-465
Ag and Food -- Processing	311423	Dried and Dehydrated Food Manufacturing	647	529	-118
Ag and Food -- Processing	332431	Metal Can Manufacturing	650	364	-286
Ag and Food -- Production	112000	Animal Production and Aquaculture	3,024	2,926	-97
Ag and Food -- Support	115115	Farm Labor Contractors and Crew Leaders	3,483	3,238	-245

CLUSTER	NAICS	INDUSTRY	EMPLOYMENT		CHANGE
			2015	2025 PROJ.	15-25
Ag and Food -- Support	332311	Prefabricated Metal Building and Component Manufacturing	112	14	-98
Ag and Food -- Support	423820	Farm and Garden Machinery and Equipment Merchant Wholesalers	285	226	-58
Ag and Food -- Support	522292	Real Estate Credit	205	92	-112
Ag and Food -- Support	551114	Corporate, Subsidiary, and Regional Managing Offices	1,302	543	-759
Ag and Food -- Support	561730	Landscaping Services	635	582	-52
Energy	238160	Roofing Contractors	196	36	-160
Energy	238310	Drywall and Insulation Contractors	492	3	-489
Health and Wellness -- Health Care - Delivery	623210	Residential Intellectual and Developmental Disability Facilities	60	3	-57
Health and Wellness -- Health Care - Delivery	623990	Other Residential Care Facilities	141	17	-124
Health and Wellness -- Health Care - Delivery	624310	Vocational Rehabilitation Services	205	99	-106
Manufacturing -- Other	321214	Truss Manufacturing	102	34	-68
Manufacturing -- Other	322220	Paper Bag and Coated and Treated Paper Manufacturing	83	16	-68
Manufacturing -- Other	337110	Wood Kitchen Cabinet and Countertop Manufacturing	74	3	-71
Manufacturing -- Other	337122	Nonupholstered Wood Household Furniture Manufacturing	264	55	-209

Source: ADE, based on EMSI Q4 QCEW and non-QCEW 2015 industry employment trends

## PROJECTED JOB OPENINGS

Labor force demand is not only affected by new jobs growth but also by changes in the labor force. As discussed in the next chapter, as the Baby Boomer generation ages out of the labor force, there will be an increasing need for replacement workers. In addition, job turnover occurs for a number of other reasons. As shown in Table 8, nearly 65,400 openings are projected between 2015 and 2025, of which approximately 23,400 would be due to new job growth.

**Table 8 — Comparing Projected Openings Over Ten Years To Number of Unemployed Who Satisfy Minimum Educational Requirements by Occupation: Stanislaus County**

OCCUPATIONAL GROUP	PROJECTED OPENINGS OVER TEN YEARS	UNEMPLOYED WHOSE EDUCATIONAL ATTAINMENT MATCHES OCCUPATIONAL REQUIREMENT	PART-TIME LABOR WHOSE EDUCATIONAL ATTAINMENT MATCHES OCCUPATIONAL REQUIREMENT
<b>Total</b>	<b>65,364</b>	<b>15,125</b>	<b>34,861</b>
53 Transportation and Material Moving	5,935	2,995	3,948
51 Production	2,940	752	1,075
49 Installation, Maintenance, and Repair	2,359	300	980
47 Construction and Extraction	1,973	1,262	2,392
45 Farming, Fishing, and Forestry	3,870	2,137	1,371
43 Office and Administrative Support	8,185	2,031	5,141
41 Sales and Related	10,084	1,682	3,916
39 Personal Care and Service	2,835	487	2,500
37 Building and Grounds Cleaning and Maintenance	1,872	748	1,857
35 Food Preparation and Serving Related	8,403	1,034	3,289
33 Protective Service	945	261	619
31 Healthcare Support	2,251	243	649
29 Healthcare Practitioners and Technical	3,612	213	1,266
27 Arts, Design, Entertainment, Sports, and Media	304	0	97
25 Education, Training, and Library	3,356	458	3,680
23 Legal	284	0	157
21 Community and Social Services	1,225	33	175
19 Life, Physical, and Social Science	82	0	17
17 Architecture and Engineering	0	0	0
15 Computer and Mathematical	502	246	77
13 Business and Financial Operations	1,819	86	639
11 Management	2,530	156	1,017

Source: ADE, based on EMSI Q4 QCEW and non-QCEW 2015 industry employment trends; and, based on US Census ACS PUMS 2012-2014 from iPUMS

# LABOR FORCE CHARACTERISTICS

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The analysis of labor force characteristics includes details about the following groups:<sup>1</sup>

- Race and Ethnicity: White, Latino, Other
- Gender
- Veteran Status
- Disability Status
- Citizenship

The characteristics include:

- Age
- Educational Attainment
- Employment status: full time, part time, unemployed
- Occupation

The discussion is organized around a number of graphical charts that summarize the information; however, Tables 9-24 at the end of the Chapter provide more detail for these groups and demographic characteristics.

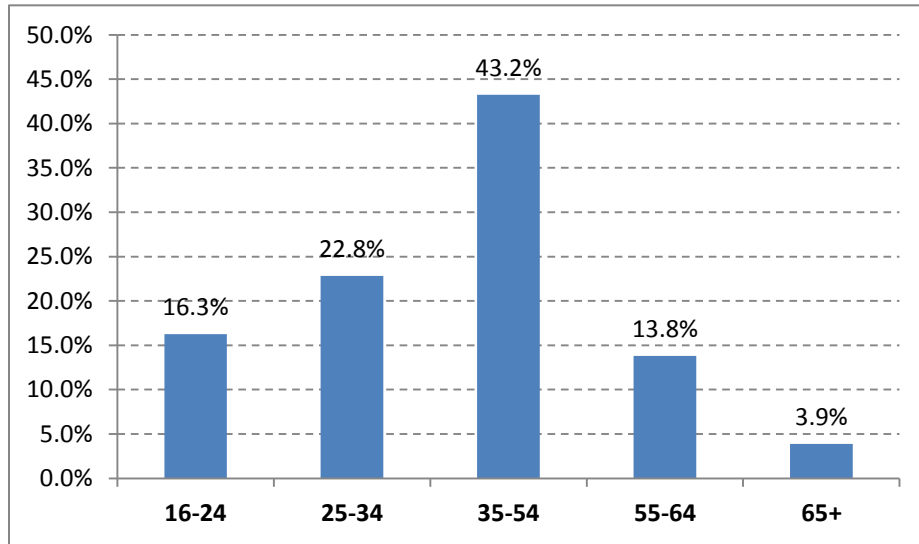
## AGE DEMOGRAPHICS

The labor force in Stanislaus County is generally evenly distributed among the age groups, with 16 percent in the 16-24 age group, and nearly 23 percent in the 25-34 age group (Figure 2). The prime working age group of 35-54 has 43 percent of the workforce, which is as concentrated on a year to year basis as the younger age groups. Workers over 55 constitute about 18 percent of the workforce and a number of employers report that impending retirements are a significant issue for them in terms of anticipated openings in the future.

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<sup>1</sup> The analysis of labor force characteristics is based on census data for the 2012 to 2014 period, reflecting a three year average.

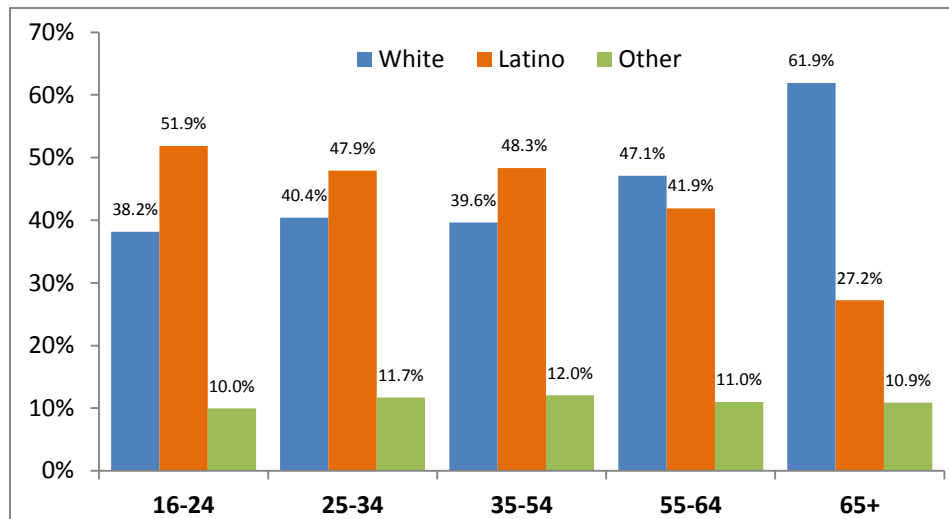
**Figure 2 – Labor Force Age Distribution (Persons 16 and Over)**



Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

As shown in Figure 3, younger age groups tend to have a higher proportion of Latino workers while older age groups have higher percentages of white workers. Of the labor force between 16 and 24, almost 52 percent are Latino, while 38 percent are White. For the 25-34 age cohort, the share of workforce between Latinos and Whites has narrowed somewhat, with Latinos at 48 percent and Whites at 40 percent. The Prime working-age labor force (35 to 54) workforce is distributed in a manner similar to the millennial (25-34 workforce): Latinos are 48 percent and Whites are almost 40 percent. The 55-64 age group shows a shift towards White workers, with Whites at 47.1% and Latinos at 41.9%. The 65+ age group has the highest percentage of White workers at 61.9%, with Latinos at 27.2% and Other at 10.9%.

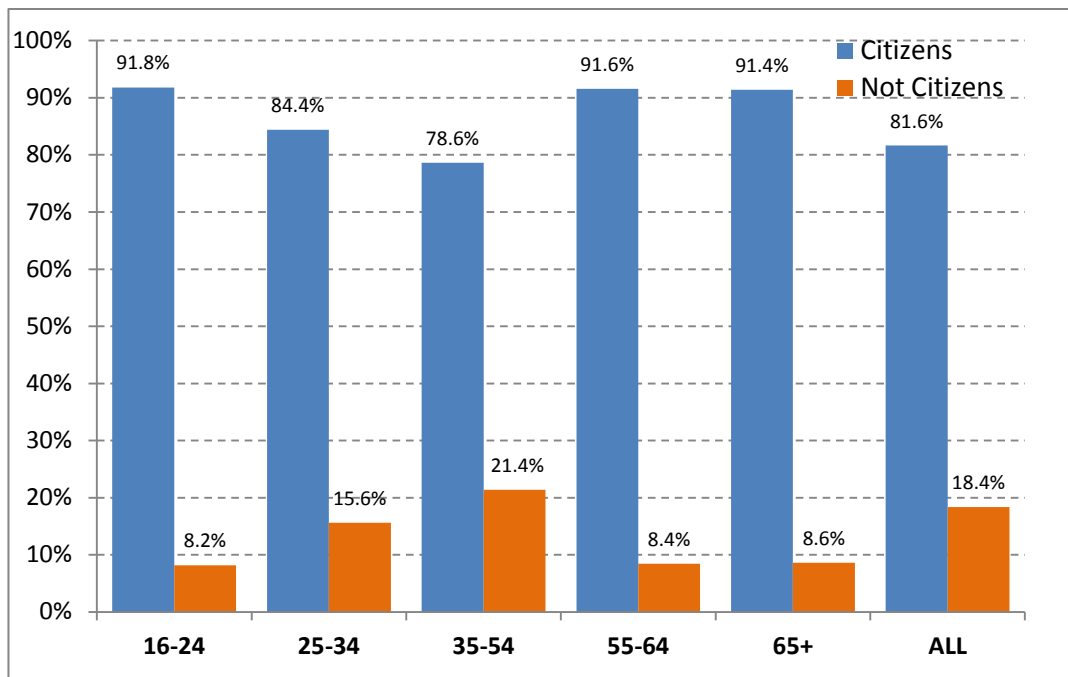
**Figure 3 – Labor Force Age Distribution by Race/Ethnicity (Persons 16 and Over)**



Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

Non-citizen workers constitute 18.4 percent of the workforce in Stanislaus County, though the rate varies with age (Figure 4). At 21.4 percent of the prime working age (35 to 54) labor force, non-citizens are more concentrated in these two sub-populations relative to their overall concentration level, i.e. 18.4 percent. In stark contrast, non-citizens comprise only 8.2 percent of the labor force between 16 and 24.

**Figure 4 – Labor Force By Age and By Citizenship Status (16 and over)**



Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

## UNEMPLOYMENT

In Stanislaus County, 42 percent of the labor force is Latino, at 104,063 persons out of a labor force of 247,061 (see Table 9 at the end of the Chapter). Forty-seven percent is White. Unemployment for Latino workers 16 and older is 19.2 percent compared to 13.0 percent for Whites.<sup>2</sup> Unemployment is 16.4 percent for workers in other racial and ethnic groups. Unemployment affects workers 25 and older with no college degree much more, at 15.9 percent, than those with a college degree (7.5 percent). Veterans' unemployment level is at 7.9 percent. Disabled workers have high unemployment, at 23.4 percent.

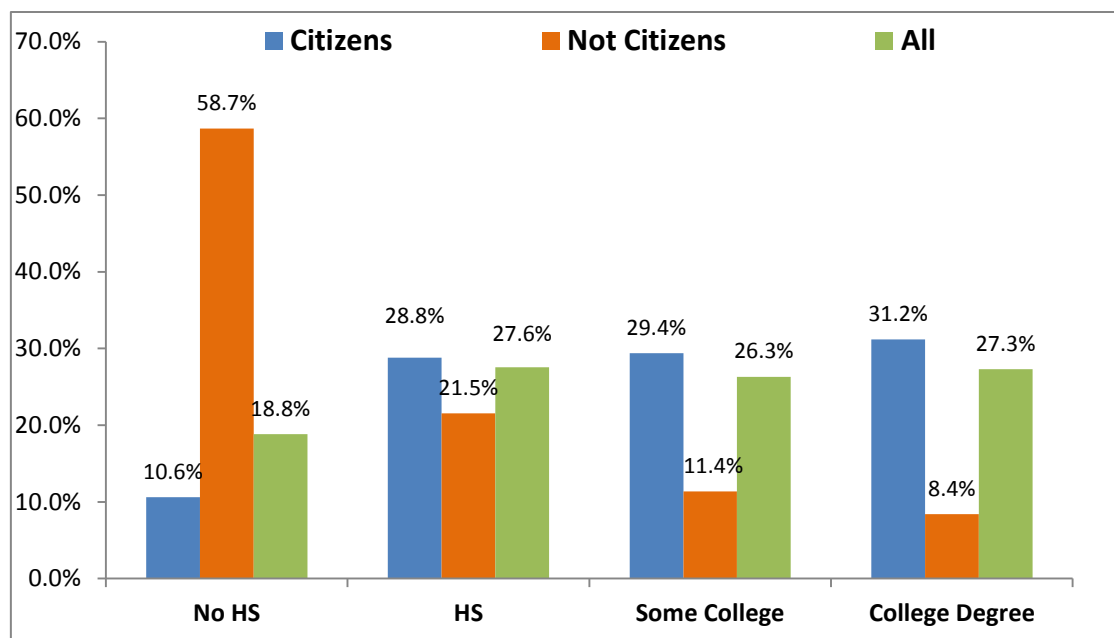
## EDUCATIONAL ATTAINMENT

The Stanislaus County workforce exhibits comparable educational attainment to the rest of the San Joaquin Valley region. Among US citizens in the workforce, only 11 percent do not have a high school diploma or GED and 60 percent have some college experience or an AA degree or higher. However, it

<sup>2</sup> For persons in the labor force who are 25 and over, the unemployment rate for Latinos is 16.9 percent and 10.8 percent for Whites. The overall joblessness rate for persons 25 and over is 13.6 percent.

is important to recognize that many non-citizens have not had the same educational opportunities in their home countries and many have not achieved the equivalent of a high school diploma. As shown in Figure 5, 59 percent of the non-citizens 25 and over in the labor force have not obtained a high school diploma or a GED. Almost 22 percent of non-citizens in the labor force have earned a high school diploma or equivalent, which is seven percentage points lower than the rate for citizens (i.e. 29 percent). This accounts, in part, for the differences in educational attainment between Latino workers and other workers in the labor force (Figure 6), as the non-citizen group is 86 percent Latino; almost 37 percent of all Latinos in the workforce have no high school diploma or GED. It is also important to note that, at 28.5 percent, Latinos have earned high school diplomas and GEDs at rates similar to Whites, and even surpass Others' rate (20 percent). However, Whites and Others are almost three times more likely than Latinos to have earned a college degree: 13.2 percent of the Latinos in the labor force have earned a college degree versus 36 percent for Whites and 41 percent for Others (Figure 6).

**Figure 5 – Labor Force Educational Attainment by Citizenship Status (25 and over)**

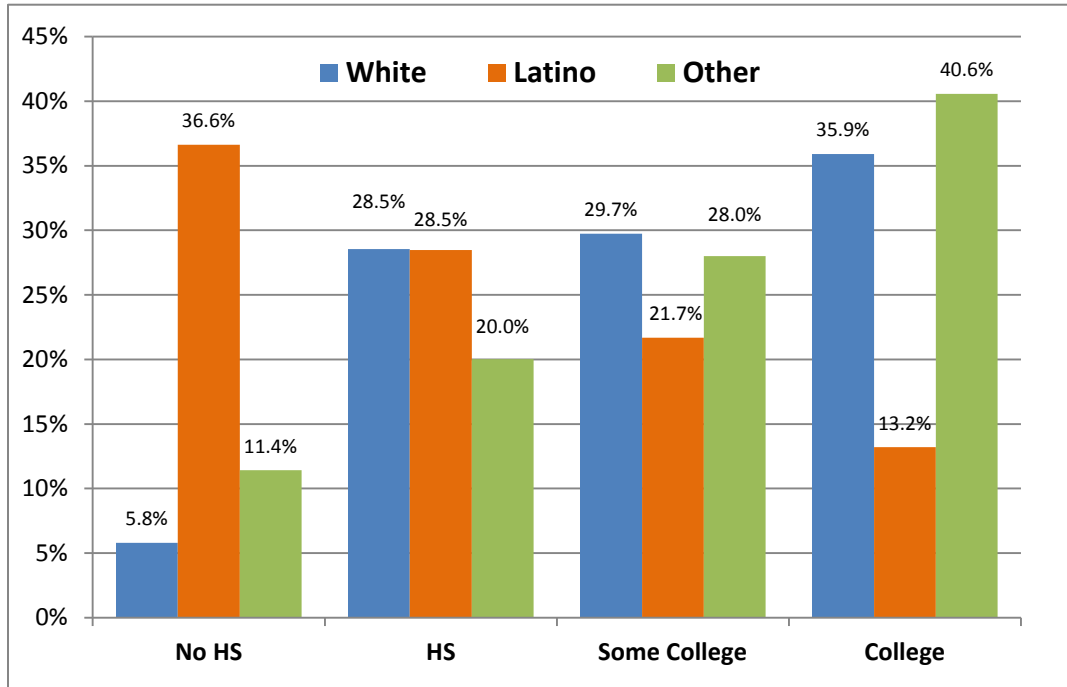


Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

Educational attainment also affects employment status. Persons with no high school diploma exhibit rates of unemployment that almost triple unemployment levels for persons with a college degree, or 22.5 percent versus 7.5 percent. Of the persons with a college degree, 65 percent work full-time, resulting in a full-time employment rate that is 16 percentage points greater than the rate for persons without a high school diploma (i.e. 65.4 percent versus 49.0 percent).

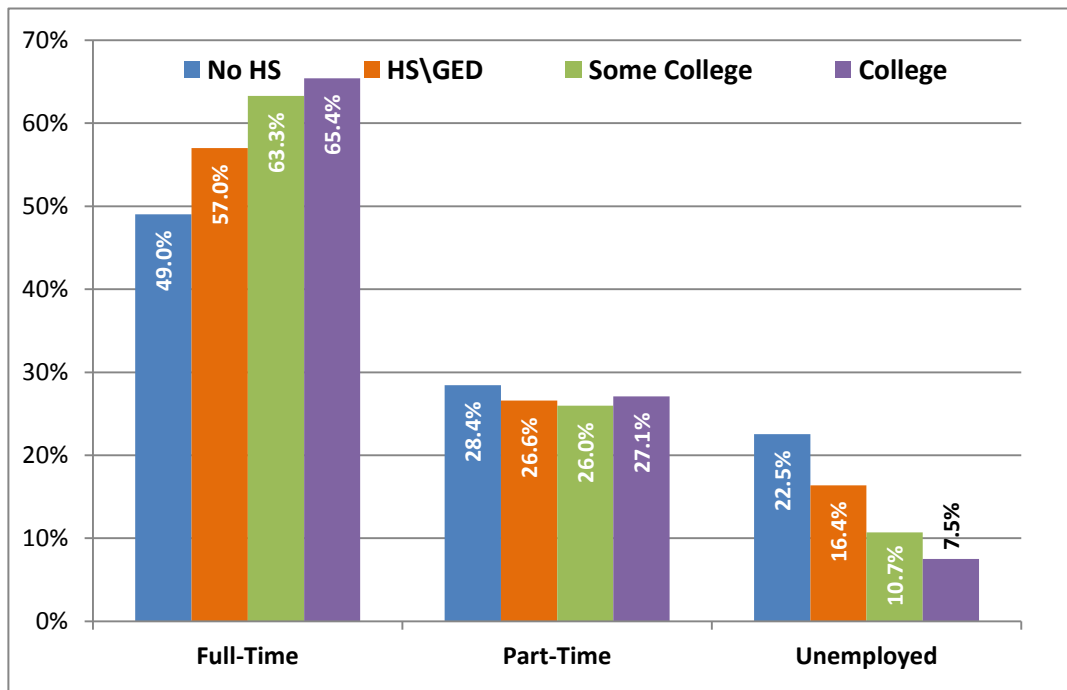


**Figure 6 – Labor Force Educational Attainment by Race/Ethnicity**



Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

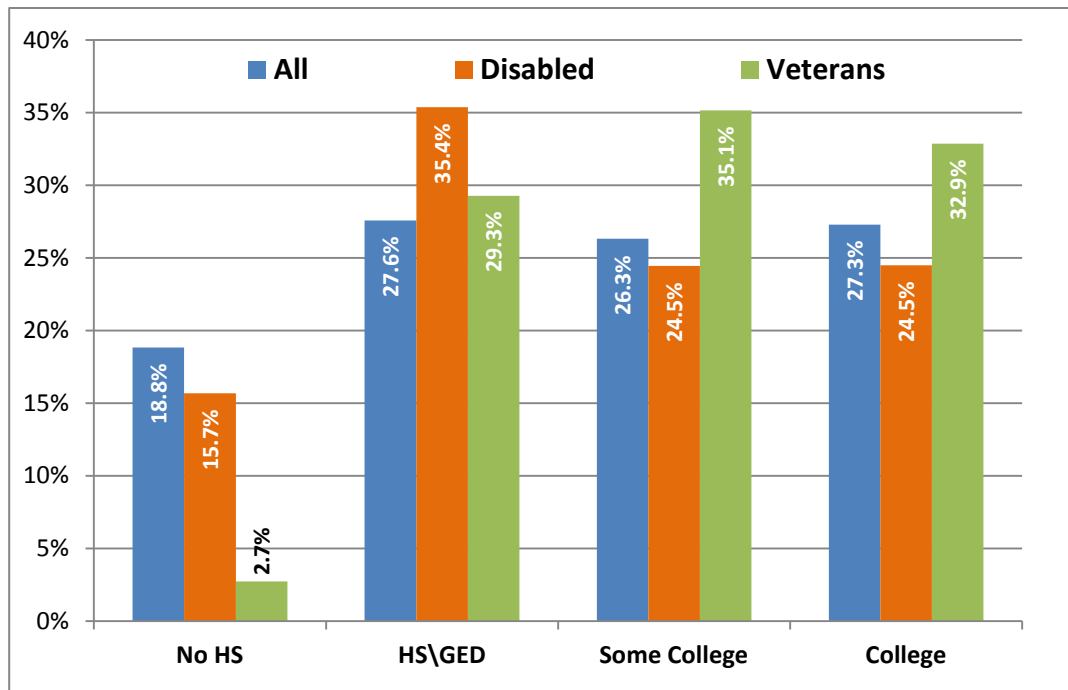
**Figure 7 – Employment Status By Educational Attainment**



Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

Veterans in Stanislaus County tend to have high levels of overall educational attainment, with almost three percent not achieving a high school diploma (Figure 8). For the workforce as a whole, 19 percent do not have a high school diploma or equivalent degree. Among disabled workers, however, nearly 16 percent do not have a high school diploma.

**Figure 8 – Educational Attainment for Disabled Workers and Veterans**

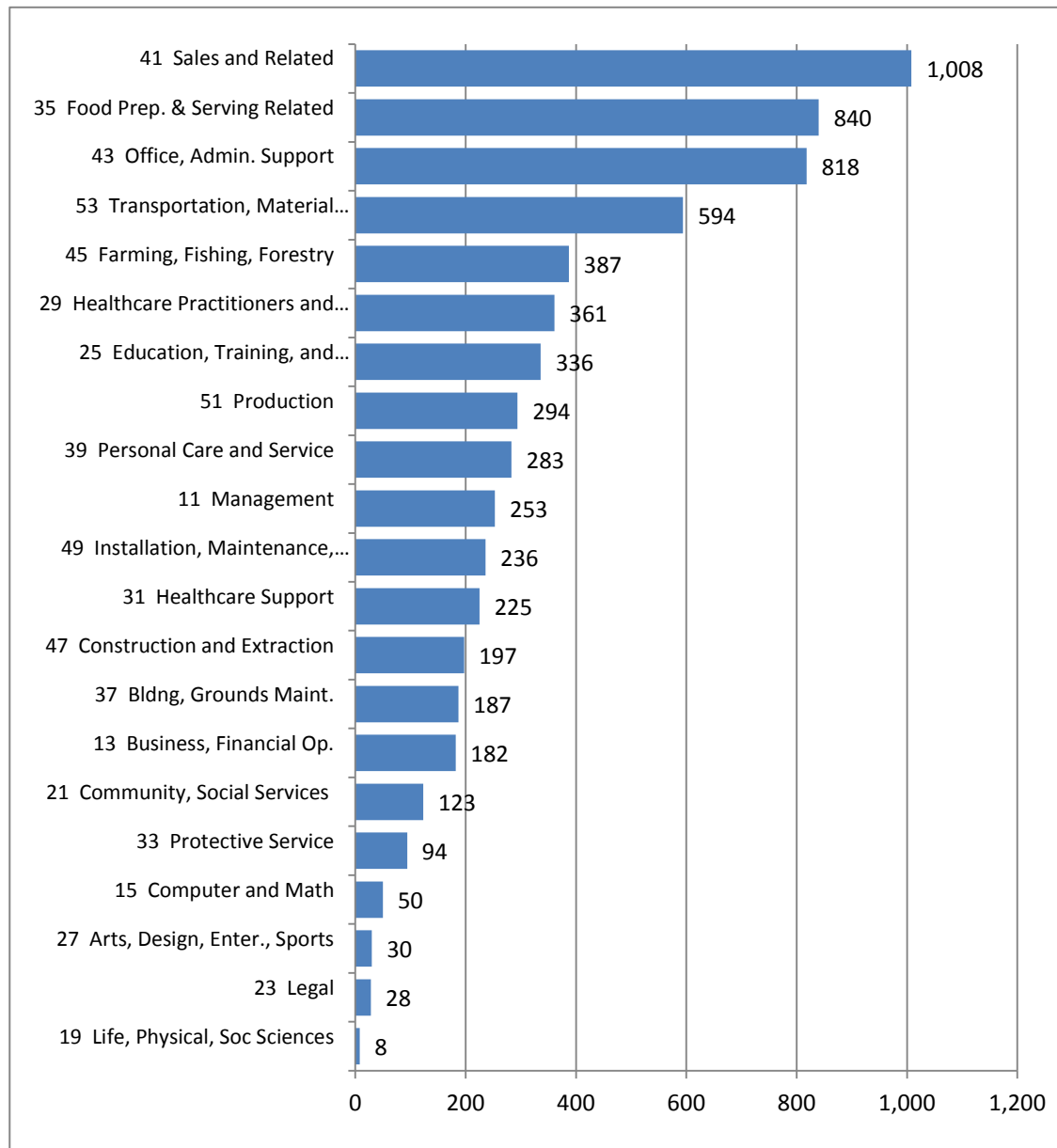


Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

## UNDERUTILIZED WORKFORCE

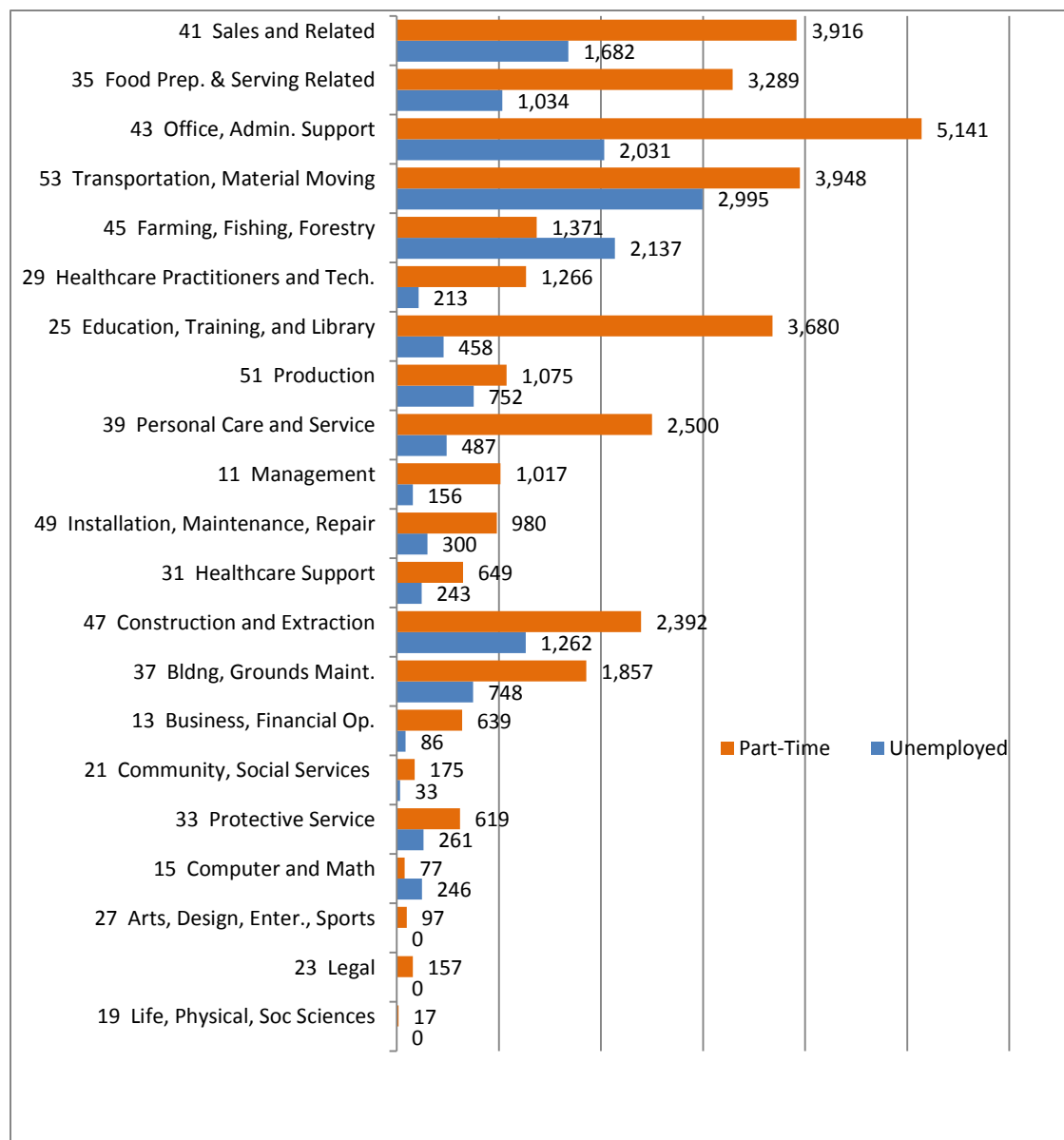
This part of report provides a focus on part time and unemployed labor force in terms of how their educational attainment and prior occupational background matches projected annual job openings. Figure 9 reproduces the major categories of job openings listed earlier in Table 8. The largest numbers of openings are in lower skilled occupations such as farming, food service, sales and administrative office occupations. However, significant number so openings are also projected in education, production, healthcare practitioners and personal care services, which are followed closely by management and healthcare positions. Comparing these categories to the availability of currently unemployed and part time workers in Figure 10, there are substantial numbers of workers who would seemingly be available to fill these positions. However, they may need training to help upgrade their skill sets or they may need other services to help them be available for full time employment.

**Figure 9 – Annual Openings by Major Occupational Groups**



Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

**Figure 10 - Number of Unemployed and Part-Time Labor Force by Major Occupational Group**

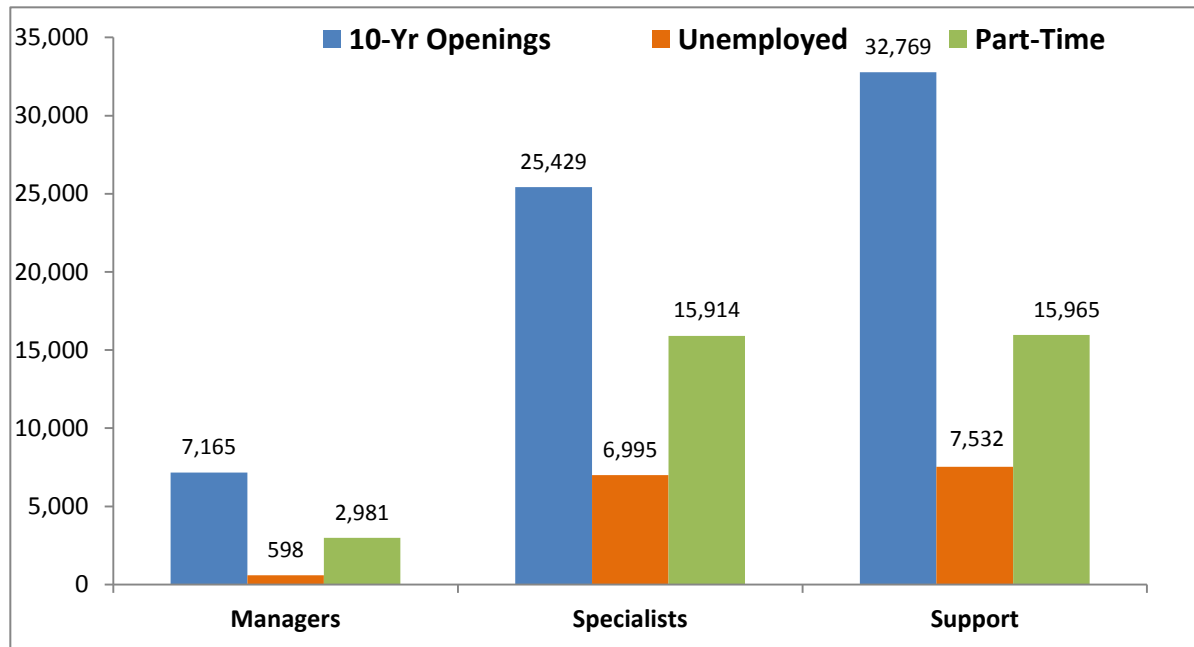


Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

Figure 11 groups job openings by three main categories of occupational level: managers and supervisory personnel; workers with specialty or higher level skills; and support positions that are more entry level or have a lower required skill set. Of the 65,300 projected openings over the 2015-2025 ten year-period, 32,800 are in support positions. Currently, there are approximately 23,400 underutilized workers with support-level work experience (7,500 who are unemployed and 15,900 who are working part-time). Another 25,400 openings are for workers with special skills; currently, there are 23,900 underutilized workers with specialist backgrounds (7,000 who are unemployed and 15,900

who are working part-time). Similarly for managers and supervisors, there are 7,165 projected openings over the ten years, with about 3,600 underutilized workers in those types of occupations currently. The projected pace of new job growth and openings, combined with projected growth in the labor force in the County, suggests that absorption of the existing underutilized workforce will take a number of years.

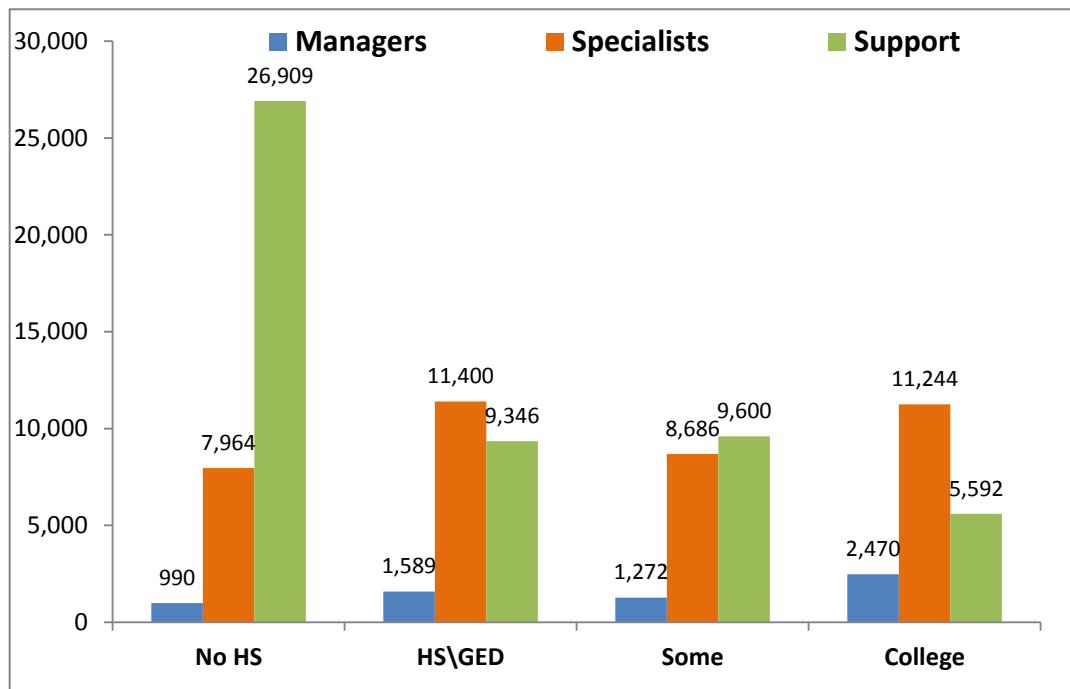
**Figure 11 – Part Time and Unemployment Workers by Occupational Class Compared To Total Projected Openings: Only Persons Whose Educational Attainment Commensurate With Opening Position: Stanislaus County**



Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

Figure 12 shows the educational level for the unemployed and part time workforce, categorized by occupational background. This figure tracks all unemployed and part-time workers, not just those who minimally qualify for the annually open positions. There are relatively few managers who have not achieved a high school diploma and the greatest number do have a high school diploma; of the 35,800 persons with no high school diploma, 990 (3 percent) are managers. Interestingly, the 990 managers with no high school diploma represent 16 percent of all managers (990 out of 6,321), although more than likely these persons hold lower-level managerial positions. Among mid-level workers with some special skills, most have either a college degree (11,244), or have had some college courses (8,686). Almost 5,592 workers who most recently worked in support positions also have a college degree.

**Figure 12 – Part Time and Unemployed Workers by Educational Attainment and Occupational Class (Persons 25 and Over): Stanislaus County**



Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

**Table 9 —Summary of Overall Labor Force Trends For Select Demographic Categories Stanislaus County**

	LABOR FORCE TRENDS BY RACE AND ETHNICITY (PERSONS 16+)	LABOR FORCE TRENDS BY GENDER (PERSONS 16+)	LABOR FORCE TRENDS BY CITIZENSHIP STATUS (PERSONS 16+)	LABOR FORCE TRENDS BY EDUCATIONAL ATTAINMENT (PERSONS 25+)	LABOR FORCE TRENDS BY VETERAN STATUS (PERSONS 16+)	LABOR FORCE TRENDS BY DISABILITY STATUS (PERSONS 16+)
	<b>White</b>	<b>Women</b>	<b>Citizens</b>	<b>Persons with College Degree</b>	<b>Veterans</b>	<b>Persons with at least One Disability</b>
Labor Force	116,103	111,333	208,423	56,455	10,932	16,748
Unemployed	15,147	19,121	31,938	4,232	859	3,916
Unemployment Rate	13.0%	17.2%	15.3%	7.5%	7.9%	23.4%
	<b>Latino</b>	<b>Men</b>	<b>Not Citizens</b>	<b>Persons with No College Degree</b>	<b>Not Veterans</b>	<b>Persons with No Reported Disability</b>
Labor Force	104,063	135,728	38,638	150,400	235,395	230,313
Unemployed	20,016	20,432	7,614	23,959	38,263	35,637
Unemployment Rate	19.2%	15.1%	19.7%	15.9%	16.3%	15.5%
	<b>Other</b>				<b>Under 17</b>	
Labor Force	26,895				734	
Unemployed	4,389				430	
Unemployment Rate	16.3%				58.6%	
	<b>Total</b>	<b>Total</b>	<b>Total</b>	<b>Total</b>	<b>Total</b>	<b>Total</b>
Labor Force	247,061	247,061	247,061	206,855	247,061	247,061
Unemployed	39,553	39,553	39,553	28,191	39,553	39,553
Unemployment Rate	16.0%	16.0%	16.0%	13.6%	16.0%	16.0%

Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

**Table 10 — Population by Age, Race\Ethnicity, and Educational Attainment Stanislaus County**

<b>Race\Ethnicity</b>	<b>0-15</b>	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Total 25+ Only</b>	<b>Total</b>
<b>Total</b>	<b>128,794</b>	<b>31,339</b>	<b>40,107</b>	<b>36,801</b>	<b>35,036</b>	<b>135,750</b>	<b>56,185</b>	<b>62,812</b>	<b>326,585</b>	<b>526,825</b>
<b>White</b>	<b>39,590</b>	<b>10,343</b>	<b>14,967</b>	<b>14,791</b>	<b>13,863</b>	<b>63,997</b>	<b>35,152</b>	<b>43,653</b>	<b>171,456</b>	<b>236,357</b>
Did not earn HSD\GED	NA	NA	NA	1,353	1,016	5,504	2,380	6,962	<b>17,215</b>	NA
HSD\GED	NA	NA	NA	4,517	3,620	20,151	10,431	14,602	<b>53,321</b>	NA
Some college -- not attending	NA	NA	NA	4,577	4,805	17,154	10,018	11,001	<b>47,555</b>	NA
Some college -- attending	NA	NA	NA	709	619	1,159	124	171	<b>2,783</b>	NA
AA	NA	NA	NA	1,401	1,232	6,054	3,907	2,715	<b>15,309</b>	NA
BA+	NA	NA	NA	2,234	2,570	13,974	8,293	8,201	<b>35,272</b>	NA
<b>Latino</b>	<b>74,327</b>	<b>16,880</b>	<b>20,536</b>	<b>17,475</b>	<b>17,123</b>	<b>55,123</b>	<b>15,101</b>	<b>12,641</b>	<b>117,463</b>	<b>229,207</b>
Did not earn HSD\GED	NA	NA	NA	4,469	5,583	22,982	7,904	7,995	<b>48,933</b>	NA
HSD\GED	NA	NA	NA	6,551	4,817	15,368	3,535	1,764	<b>32,035</b>	NA
Some college -- not attending	NA	NA	NA	3,340	3,803	9,294	2,302	1,912	<b>20,652</b>	NA
Some college -- attending	NA	NA	NA	1,028	702	529	83	48	<b>2,390</b>	NA
AA	NA	NA	NA	861	712	2,421	554	485	<b>5,032</b>	NA
BA+	NA	NA	NA	1,224	1,507	4,530	723	437	<b>8,421</b>	NA
<b>Other</b>	<b>14,877</b>	<b>4,116</b>	<b>4,603</b>	<b>4,536</b>	<b>4,051</b>	<b>16,629</b>	<b>5,932</b>	<b>6,518</b>	<b>37,666</b>	<b>61,262</b>
Did not earn HSD\GED	NA	NA	NA	292	352	2,451	1,145	2,130	<b>6,369</b>	NA
HSD\GED	NA	NA	NA	1,039	1,031	3,440	1,179	1,076	<b>7,765</b>	NA
Some college -- not attending	NA	NA	NA	861	924	4,217	1,569	944	<b>8,514</b>	NA
Some college -- attending	NA	NA	NA	667	444	572	0	66	<b>1,749</b>	NA
AA	NA	NA	NA	707	359	1,257	730	694	<b>3,748</b>	NA
BA+	NA	NA	NA	970	942	4,692	1,309	1,608	<b>9,521</b>	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS (Note: "NA" refers to infants not yet enrolled in school or pre-school)



**Table 11 — Labor Force by Age, Race\Ethnicity, and Educational Attainment (Persons 16 and Over): Stanislaus County**

Race\Ethnicity	16-19	20-24	25-29	30-34	35-54	55-64	65+	Labor Force (25+)	Total Labor Force
<b>Total</b>	<b>10,963</b>	<b>29,244</b>	<b>28,644</b>	<b>27,718</b>	<b>106,851</b>	<b>34,067</b>	<b>9,574</b>	<b>206,855</b>	<b>247,061</b>
<b>White</b>	<b>3,586</b>	<b>11,765</b>	<b>11,778</b>	<b>10,985</b>	<b>50,318</b>	<b>21,083</b>	<b>6,590</b>	<b>100,753</b>	<b>116,103</b>
Did not earn HSD\GED	NA	NA	869	611	2,880	1,193	295	<b>5,847</b>	NA
HSD\GED	NA	NA	3,539	2,612	15,484	5,409	1,705	<b>28,749</b>	NA
Some college -- not attending	NA	NA	3,474	4,109	13,279	5,701	1,673	<b>28,236</b>	NA
Some college -- attending	NA	NA	671	285	698	58	21	<b>1,734</b>	NA
AA	NA	NA	1,019	1,097	5,015	2,512	713	<b>10,355</b>	NA
BA+	NA	NA	2,206	2,270	12,962	6,210	2,183	<b>25,831</b>	NA
<b>Latino</b>	<b>6,293</b>	<b>14,561</b>	<b>13,620</b>	<b>13,397</b>	<b>44,784</b>	<b>9,274</b>	<b>2,133</b>	<b>83,209</b>	<b>104,063</b>
Did not earn HSD\GED	NA	NA	3,128	4,139	17,680	4,320	1,216	<b>30,483</b>	NA
HSD\GED	NA	NA	5,010	3,564	12,586	2,303	233	<b>23,696</b>	NA
Some college -- not attending	NA	NA	2,775	3,242	8,079	1,768	294	<b>16,157</b>	NA
Some college -- attending	NA	NA	1,000	377	435	31	48	<b>1,891</b>	NA
AA	NA	NA	730	620	2,189	388	144	<b>4,071</b>	NA
BA+	NA	NA	978	1,456	3,815	463	198	<b>6,910</b>	NA
<b>Other</b>	<b>1,084</b>	<b>2,918</b>	<b>3,246</b>	<b>3,336</b>	<b>11,749</b>	<b>3,711</b>	<b>852</b>	<b>22,893</b>	<b>26,895</b>
Did not earn HSD\GED	NA	NA	236	237	1,387	570	182	<b>2,612</b>	NA
HSD\GED	NA	NA	779	863	2,229	688	26	<b>4,586</b>	NA
Some college -- not attending	NA	NA	720	760	2,842	1,067	136	<b>5,524</b>	NA
Some college -- attending	NA	NA	158	220	506	0	0	<b>885</b>	NA
AA	NA	NA	639	359	949	401	255	<b>2,603</b>	NA
BA+	NA	NA	713	897	3,836	985	252	<b>6,684</b>	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS (Note: "NA" refers to infants not yet enrolled in school or pre-school)

**Table 12 — Part-Time Employed Labor Force by Age, Race\Ethnicity, and Educational Attainment (Persons 16 and Over): Stanislaus County**

<b>Race\Ethnicity</b>	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Labor Force (25+)</b>	<b>Total Labor Force</b>
<b>Total</b>	<b>6,324</b>	<b>14,090</b>	<b>8,916</b>	<b>6,903</b>	<b>26,393</b>	<b>8,788</b>	<b>4,661</b>	<b>55,661</b>	<b>76,076</b>
<b>White</b>	<b>2,180</b>	<b>5,694</b>	<b>3,829</b>	<b>2,586</b>	<b>12,442</b>	<b>5,111</b>	<b>3,286</b>	<b>27,254</b>	<b>35,128</b>
Did not earn HSD\GED	NA	NA	176	119	636	340	89	<b>1,360</b>	NA
HSD\GED	NA	NA	1,273	583	4,118	1,255	718	<b>7,947</b>	NA
Some college -- not attending	NA	NA	1,056	965	3,292	1,239	892	<b>7,443</b>	NA
Some college -- attending	NA	NA	205	98	264	26	0	<b>593</b>	NA
AA	NA	NA	471	195	1,066	717	337	<b>2,786</b>	NA
BA+	NA	NA	648	625	3,067	1,536	1,249	<b>7,125</b>	NA
<b>Latino</b>	<b>3,601</b>	<b>6,685</b>	<b>4,125</b>	<b>3,360</b>	<b>11,150</b>	<b>2,392</b>	<b>1,075</b>	<b>22,102</b>	<b>32,387</b>
Did not earn HSD\GED	NA	NA	980	939	4,870	1,112	593	<b>8,495</b>	NA
HSD\GED	NA	NA	1,141	954	3,075	788	92	<b>6,050</b>	NA
Some college -- not attending	NA	NA	789	712	1,733	360	209	<b>3,804</b>	NA
Some college -- attending	NA	NA	522	95	59	0	48	<b>724</b>	NA
AA	NA	NA	369	121	640	70	74	<b>1,275</b>	NA
BA+	NA	NA	323	537	773	61	59	<b>1,754</b>	NA
<b>Other</b>	<b>543</b>	<b>1,712</b>	<b>962</b>	<b>958</b>	<b>2,800</b>	<b>1,285</b>	<b>300</b>	<b>6,306</b>	<b>8,561</b>
Did not earn HSD\GED	NA	NA	68	152	554	351	91	<b>1,216</b>	NA
HSD\GED	NA	NA	39	235	663	223	0	<b>1,159</b>	NA
Some college -- not attending	NA	NA	310	256	626	222	28	<b>1,442</b>	NA
Some college -- attending	NA	NA	106	0	29	0	0	<b>134</b>	NA
AA	NA	NA	198	0	104	40	105	<b>447</b>	NA
BA+	NA	NA	241	315	824	450	76	<b>1,907</b>	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from IPUMS

**Table 13 — Unemployed Labor Force by Age, Race\Ethnicity, and Educational Attainment (Persons 16 and Over): Stanislaus County**

<b>Race\Ethnicity</b>	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>LABOR FORCE (25+)</b>	<b>TOTAL LABOR FORCE</b>
<b>Total</b>	<b>4,205</b>	<b>7,156</b>	<b>4,813</b>	<b>4,638</b>	<b>14,341</b>	<b>3,279</b>	<b>1,120</b>	<b>28,191</b>	<b>39,553</b>
White	<b>1,295</b>	<b>3,017</b>	<b>1,786</b>	<b>1,571</b>	<b>5,331</b>	<b>1,587</b>	<b>559</b>	<b>10,835</b>	<b>15,147</b>
Did not earn HSD\GED	NA	NA	372	118	676	224	95	<b>1,485</b>	NA
HSD\GED	NA	NA	651	435	2,360	291	114	<b>3,851</b>	NA
Some college -- not attending	NA	NA	400	531	1,066	546	132	<b>2,675</b>	NA
Some college -- attending	NA	NA	145	23	65	33	21	<b>287</b>	NA
AA	NA	NA	137	357	481	112	53	<b>1,140</b>	NA
BA+	NA	NA	81	107	682	382	146	<b>1,397</b>	NA
Latino	<b>2,369</b>	<b>3,551</b>	<b>2,433</b>	<b>2,230</b>	<b>7,572</b>	<b>1,376</b>	<b>486</b>	<b>14,097</b>	<b>20,016</b>
Did not earn HSD\GED	NA	NA	727	864	4,069	1,029	269	<b>6,958</b>	NA
HSD\GED	NA	NA	769	946	2,247	220	108	<b>4,289</b>	NA
Some college -- not attending	NA	NA	570	210	715	55	69	<b>1,618</b>	NA
Some college -- attending	NA	NA	231	99	111	0	0	<b>441</b>	NA
AA	NA	NA	61	71	143	34	40	<b>350</b>	NA
BA+	NA	NA	76	39	286	39	0	<b>440</b>	NA
Other	<b>541</b>	<b>588</b>	<b>594</b>	<b>837</b>	<b>1,438</b>	<b>316</b>	<b>75</b>	<b>3,260</b>	<b>4,389</b>
Did not earn HSD\GED	NA	NA	16	65	217	0	33	<b>331</b>	NA
HSD\GED	NA	NA	311	381	395	97	26	<b>1,210</b>	NA
Some college -- not attending	NA	NA	68	195	341	86	0	<b>690</b>	NA
Some college -- attending	NA	NA	30	68	25	0	0	<b>124</b>	NA
AA	NA	NA	125	30	62	66	16	<b>299</b>	NA
BA+	NA	NA	43	98	398	67	0	<b>606</b>	NA

Source: ADE, Inc. based on US Census ACS PUMS 2012-2014 from iPUMS

**Table 14 — Unemployment Rates by Age, Race\Ethnicity, and Educational Attainment (Persons 16 and Over): Stanislaus County**

<b>Race\Ethnicity</b>	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>LABOR FORCE (25+)</b>	<b>TOTAL LABOR FORCE</b>
<b>Total</b>	<b>38.4%</b>	<b>24.5%</b>	<b>16.8%</b>	<b>16.7%</b>	<b>13.4%</b>	<b>9.6%</b>	<b>11.7%</b>	<b>13.6%</b>	<b>16.0%</b>
White	36.1%	25.6%	15.2%	14.3%	10.6%	7.5%	8.5%	10.8%	13.0%
Did not earn HSD\GED	NA	NA	42.8%	19.3%	23.5%	18.8%	32.1%	25.4%	NA
HSD\GED	NA	NA	18.4%	16.7%	15.2%	5.4%	6.7%	13.4%	NA
Some college -- not attending	NA	NA	11.5%	12.9%	8.0%	9.6%	7.9%	9.5%	NA
Some college -- attending	NA	NA	21.7%	7.9%	9.4%	56.0%	100.0%	16.6%	NA
AA	NA	NA	13.4%	32.6%	9.6%	4.4%	7.4%	11.0%	NA
BA+	NA	NA	3.7%	4.7%	5.3%	6.1%	6.7%	5.4%	NA
Latino	37.6%	24.4%	17.9%	16.6%	16.9%	14.8%	22.8%	16.9%	19.2%
Did not earn HSD\GED	NA	NA	23.2%	20.9%	23.0%	23.8%	22.1%	22.8%	NA
HSD\GED	NA	NA	15.3%	26.5%	17.9%	9.5%	46.2%	18.1%	NA
Some college -- not attending	NA	NA	20.5%	6.5%	8.8%	3.1%	23.5%	10.0%	NA
Some college -- attending	NA	NA	23.1%	26.4%	25.5%	0.0%	0.0%	23.3%	NA
AA	NA	NA	8.4%	11.5%	6.5%	8.8%	28.0%	8.6%	NA
BA+	NA	NA	7.7%	2.7%	7.5%	8.4%	0.0%	6.4%	NA
Other	49.9%	20.2%	18.3%	25.1%	12.2%	8.5%	8.8%	14.2%	16.3%
Did not earn HSD\GED	NA	NA	6.9%	27.5%	15.6%	0.0%	17.9%	12.7%	NA
HSD\GED	NA	NA	39.9%	44.1%	17.7%	14.1%	100.0%	26.4%	NA
Some college -- not attending	NA	NA	9.4%	25.7%	12.0%	8.1%	0.0%	12.5%	NA
Some college -- attending	NA	NA	19.2%	30.9%	5.0%	NA	NA	14.0%	NA
AA	NA	NA	19.6%	8.4%	6.5%	16.5%	6.3%	11.5%	NA
BA+	NA	NA	6.1%	10.9%	10.4%	6.8%	0.0%	9.1%	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

**Table 15 — Labor Force by Age, Citizenship Status, and Educational Attainment (Persons 16 and Over): Stanislaus County**

<b>Citizenship Status</b>	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Labor Force (25+)</b>	<b>Total</b>
<b>Total</b>	<b>10,963</b>	<b>29,244</b>	<b>28,644</b>	<b>27,718</b>	<b>106,851</b>	<b>34,067</b>	<b>9,574</b>	<b>206,855</b>	<b>247,061</b>
Citizen	<b>10,489</b>	<b>26,427</b>	<b>24,844</b>	<b>22,718</b>	<b>84,003</b>	<b>31,191</b>	<b>8,751</b>	<b>171,508</b>	<b>208,423</b>
Did not earn HSD\GED	NA	NA	2,726	2,279	8,206	3,796	1,194	<b>18,201</b>	NA
HSD\GED	NA	NA	7,860	5,851	25,667	8,158	1,882	<b>49,417</b>	NA
Some college -- not attending	NA	NA	6,417	7,398	21,978	8,363	2,034	<b>46,190</b>	NA
Some college -- attending	NA	NA	1,784	845	1,428	90	69	<b>4,215</b>	NA
AA	NA	NA	2,209	1,900	7,755	3,232	1,053	<b>16,149</b>	NA
BA+	NA	NA	3,848	4,446	18,970	7,553	2,519	<b>37,336</b>	NA
Not Citizen	<b>474</b>	<b>2,817</b>	<b>3,799</b>	<b>5,000</b>	<b>22,848</b>	<b>2,876</b>	<b>823</b>	<b>35,347</b>	<b>38,638</b>
Did not earn HSD\GED	NA	NA	1,506	2,708	13,741	2,287	499	<b>20,742</b>	NA
HSD\GED	NA	NA	1,468	1,189	4,632	242	82	<b>7,614</b>	NA
Some college -- not attending	NA	NA	552	712	2,222	172	69	<b>3,727</b>	NA
Some college -- attending	NA	NA	45	38	211	0	0	<b>294</b>	NA
AA	NA	NA	179	176	398	69	59	<b>881</b>	NA
BA+	NA	NA	49	177	1,644	106	113	<b>2,089</b>	NA

Source: ADE Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

**Table 16 — Unemployed Labor Force by Age, Citizenship Status, and Educational Attainment (Persons 16 and Over): Stanislaus County**

<b>Citizenship Status</b>	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Labor Force (25+)</b>	<b>Total Labor Force</b>
<b>Total</b>	<b>10,963</b>	<b>29,244</b>	<b>28,644</b>	<b>27,718</b>	<b>106,851</b>	<b>34,067</b>	<b>9,574</b>	<b>206,855</b>	<b>247,061</b>
<b>Citizen</b>	<b>10,489</b>	<b>26,427</b>	<b>24,844</b>	<b>22,718</b>	<b>84,003</b>	<b>31,191</b>	<b>8,751</b>	<b>171,508</b>	<b>208,423</b>
Did not earn HSD\GED	NA	NA	2,726	2,279	8,206	3,796	1,194	<b>18,201</b>	NA
HSD\GED	NA	NA	7,860	5,851	25,667	8,158	1,882	<b>49,417</b>	NA
Some college -- not attending	NA	NA	6,417	7,398	21,978	8,363	2,034	<b>46,190</b>	NA
Some college -- attending	NA	NA	1,784	845	1,428	90	69	<b>4,215</b>	NA
AA	NA	NA	2,209	1,900	7,755	3,232	1,053	<b>16,149</b>	NA
BA+	NA	NA	3,848	4,446	18,970	7,553	2,519	<b>37,336</b>	NA
<b>Not Citizen</b>	<b>474</b>	<b>2,817</b>	<b>3,799</b>	<b>5,000</b>	<b>22,848</b>	<b>2,876</b>	<b>823</b>	<b>35,347</b>	<b>38,638</b>
Did not earn HSD\GED	NA	NA	1,506	2,708	13,741	2,287	499	<b>20,742</b>	NA
HSD\GED	NA	NA	1,468	1,189	4,632	242	82	<b>7,614</b>	NA
Some college -- not attending	NA	NA	552	712	2,222	172	69	<b>3,727</b>	NA
Some college -- attending	NA	NA	45	38	211	0	0	<b>294</b>	NA
AA	NA	NA	179	176	398	69	59	<b>881</b>	NA
BA+	NA	NA	49	177	1,644	106	113	<b>2,089</b>	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

**Table 17 — Unemployment Rates by Age, Citizenship Status, and Educational Attainment (Persons 16 and Over): Stanislaus County**

<b>Citizenship Status</b>	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Labor Force (25+)</b>	<b>Total Labor Force</b>
<b>Total</b>	<b>38.4%</b>	<b>24.5%</b>	<b>16.8%</b>	<b>16.7%</b>	<b>13.4%</b>	<b>9.6%</b>	<b>11.7%</b>	<b>13.6%</b>	<b>16.0%</b>
<b>Citizen</b>	<b>39.2%</b>	<b>24.2%</b>	<b>17.1%</b>	<b>15.8%</b>	<b>12.3%</b>	<b>8.3%</b>	<b>7.8%</b>	<b>12.5%</b>	<b>15.3%</b>
Did not earn HSD\GED	NA	NA	30.8%	23.0%	24.9%	17.0%	13.0%	<b>23.1%</b>	NA
HSD\GED	NA	NA	19.5%	22.3%	16.4%	7.4%	8.8%	<b>15.8%</b>	NA
Some college -- not attending	NA	NA	14.5%	11.9%	9.2%	7.6%	6.5%	<b>10.0%</b>	NA
Some college -- attending	NA	NA	22.8%	22.5%	9.6%	36.4%	30.4%	<b>18.7%</b>	NA
AA	NA	NA	14.6%	24.2%	8.9%	6.5%	6.5%	<b>10.8%</b>	NA
BA+	NA	NA	5.2%	5.5%	6.5%	5.9%	5.8%	<b>6.1%</b>	NA
<b>Not Citizen</b>	<b>19.4%</b>	<b>27.0%</b>	<b>15.2%</b>	<b>20.8%</b>	<b>17.6%</b>	<b>24.2%</b>	<b>52.6%</b>	<b>19.1%</b>	<b>19.7%</b>
Did not earn HSD\GED	NA	NA	18.2%	19.3%	21.3%	26.5%	48.4%	<b>22.0%</b>	NA
HSD\GED	NA	NA	13.3%	38.5%	17.3%	0.0%	100.0%	<b>20.2%</b>	NA
Some college -- not attending	NA	NA	19.6%	8.1%	4.6%	29.6%	100.0%	<b>10.4%</b>	NA
Some college -- attending	NA	NA	0.0%	0.0%	30.6%	NA	NA	<b>22.0%</b>	NA
AA	NA	NA	0.0%	0.0%	0.0%	0.0%	68.0%	<b>4.6%</b>	NA
BA+	NA	NA	0.0%	0.0%	7.6%	36.9%	0.0%	<b>7.9%</b>	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

**Table 18 — Labor Force by Age, Disability Status, and Educational Attainment (Persons 16 and Over): Stanislaus County**

<b>Disability Status</b>	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Labor Force (25+)</b>	<b>Total Labor Force</b>
Total	<b>10,963</b>	<b>29,244</b>	<b>28,644</b>	<b>27,718</b>	<b>106,851</b>	<b>34,067</b>	<b>9,574</b>	<b>206,855</b>	<b>247,061</b>
Persons W\ No Reported Disability	<b>10,291</b>	<b>28,597</b>	<b>27,634</b>	<b>26,581</b>	<b>100,183</b>	<b>30,018</b>	<b>7,008</b>	<b>191,425</b>	<b>230,313</b>
Did not earn HSD\GED	NA	NA	4,071	4,877	20,687	5,699	1,190	<b>36,524</b>	NA
HSD\GED	NA	NA	8,924	6,653	27,806	6,960	1,229	<b>51,572</b>	NA
Some college -- not attending	NA	NA	6,757	7,749	22,942	7,367	1,570	<b>46,385</b>	NA
Some college -- attending	NA	NA	1,720	841	1,610	51	48	<b>4,269</b>	NA
AA	NA	NA	2,388	1,934	7,765	2,813	821	<b>15,722</b>	NA
BA+	NA	NA	3,775	4,526	19,373	7,129	2,151	<b>36,953</b>	NA
Persons W\At Least One Disability	<b>671</b>	<b>647</b>	<b>1,010</b>	<b>1,137</b>	<b>6,668</b>	<b>4,049</b>	<b>2,566</b>	<b>15,430</b>	<b>16,748</b>
Did not earn HSD\GED	NA	NA	161	109	1,260	385	504	<b>2,418</b>	NA
HSD\GED	NA	NA	404	386	2,493	1,440	735	<b>5,459</b>	NA
Some college -- not attending	NA	NA	212	361	1,258	1,168	533	<b>3,532</b>	NA
Some college -- attending	NA	NA	110	42	30	39	21	<b>241</b>	NA
AA	NA	NA	0	142	387	488	291	<b>1,308</b>	NA
BA+	NA	NA	123	97	1,240	529	482	<b>2,472</b>	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS



**Table 19 — Unemployed Labor Force by Age, Disability Status, and Educational Attainment (Persons 16 and Over): Stanislaus County**

<b>Disability Status</b>	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Labor Force (25+)</b>	<b>Total Labor Force</b>
Total	<b>4,205</b>	<b>7,156</b>	<b>4,813</b>	<b>4,638</b>	<b>14,341</b>	<b>3,279</b>	<b>1,120</b>	<b>28,191</b>	<b>39,553</b>
Persons W\ No Reported Disability	<b>3,852</b>	<b>6,835</b>	<b>4,333</b>	<b>4,248</b>	<b>12,813</b>	<b>2,817</b>	<b>738</b>	<b>24,950</b>	<b>35,637</b>
Did not earn HSD\GED	NA	NA	1,008	942	4,597	1,118	200	<b>7,865</b>	NA
HSD\GED	NA	NA	1,556	1,686	4,116	538	215	<b>8,112</b>	NA
Some college -- not attending	NA	NA	870	804	1,952	555	169	<b>4,349</b>	NA
Some college -- attending	NA	NA	376	190	202	19	0	<b>787</b>	NA
AA	NA	NA	323	381	687	169	56	<b>1,616</b>	NA
BA+	NA	NA	200	244	1,260	418	98	<b>2,220</b>	NA
Persons W\At Least One Disability	<b>353</b>	<b>321</b>	<b>481</b>	<b>390</b>	<b>1,528</b>	<b>462</b>	<b>382</b>	<b>3,242</b>	<b>3,916</b>
Did not earn HSD\GED	NA	NA	107	105	365	135	196	<b>908</b>	NA
HSD\GED	NA	NA	175	76	886	69	32	<b>1,238</b>	NA
Some college -- not attending	NA	NA	168	132	170	132	32	<b>634</b>	NA
Some college -- attending	NA	NA	30	0	0	13	21	<b>65</b>	NA
AA	NA	NA	0	78	0	43	53	<b>173</b>	NA
BA+	NA	NA	0	0	106	69	48	<b>223</b>	NA

Source: ADE, Inc., based US Census ACS PUMS 2012-2014 from iPUMS

**Table 20 — Unemployment rates by Age, Disability Status, and Educational Attainment (Persons 16 and Over): Stanislaus County**

<b>Disability Status</b>	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Labor Force (25+)</b>	<b>Total Labor Force</b>
<b>Total</b>	<b>38.4%</b>	<b>24.5%</b>	<b>16.8%</b>	<b>16.7%</b>	<b>13.4%</b>	<b>9.6%</b>	<b>11.7%</b>	<b>13.6%</b>	<b>16.0%</b>
Persons W\ No Reported Disability	<b>37.4%</b>	<b>23.9%</b>	<b>15.7%</b>	<b>16.0%</b>	<b>12.8%</b>	<b>9.4%</b>	<b>10.5%</b>	<b>13.0%</b>	<b>15.5%</b>
Did not earn HSD\GED	NA	NA	24.8%	19.3%	22.2%	19.6%	16.8%	<b>21.5%</b>	NA
HSD\GED	NA	NA	17.4%	25.3%	14.8%	7.7%	17.5%	<b>15.7%</b>	NA
Some college -- not attending	NA	NA	12.9%	10.4%	8.5%	7.5%	10.7%	<b>9.4%</b>	NA
Some college -- attending	NA	NA	21.9%	22.6%	12.5%	38.2%	0.0%	<b>18.4%</b>	NA
AA	NA	NA	13.5%	19.7%	8.8%	6.0%	6.9%	<b>10.3%</b>	NA
BA+	NA	NA	5.3%	5.4%	6.5%	5.9%	4.5%	<b>6.0%</b>	NA
Persons W\At Least One Disability	<b>52.6%</b>	<b>49.7%</b>	<b>47.6%</b>	<b>34.3%</b>	<b>22.9%</b>	<b>11.4%</b>	<b>14.9%</b>	<b>21.0%</b>	<b>23.4%</b>
Did not earn HSD\GED	NA	NA	66.7%	95.7%	29.0%	35.2%	38.9%	<b>37.6%</b>	NA
HSD\GED	NA	NA	43.2%	19.6%	35.6%	4.8%	4.4%	<b>22.7%</b>	NA
Some college -- not attending	NA	NA	79.4%	36.6%	13.5%	11.3%	6.0%	<b>18.0%</b>	NA
Some college -- attending	NA	NA	27.7%	0.0%	0.0%	34.2%	100.0%	<b>26.8%</b>	NA
AA	NA	NA	NA	54.8%	0.0%	8.7%	18.1%	<b>13.2%</b>	NA
BA+	NA	NA	0.0%	0.0%	8.5%	13.1%	10.0%	<b>9.0%</b>	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

**Table 21 — Labor Force by Age, Veteran Status, and Educational Attainment (Persons 16 and Over): Stanislaus County**

<b>Veterans Status</b>	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Labor Force (25+)</b>	<b>Total Labor Force</b>
<b>Total</b>	<b>10,229</b>	<b>29,244</b>	<b>28,644</b>	<b>27,718</b>	<b>106,851</b>	<b>34,067</b>	<b>9,574</b>	<b>206,855</b>	<b>246,327</b>
Not Veterans	10,229	28,941	28,169	27,376	102,232	30,968	7,480	196,225	235,395
Did not earn HSD\GED	NA	NA	4,189	4,987	21,901	6,027	1,550	38,654	NA
HSD\GED	NA	NA	9,133	6,934	28,876	7,368	1,607	53,918	NA
Some college -- not attending	NA	NA	6,855	7,957	22,717	7,404	1,340	46,273	NA
Some college -- attending	NA	NA	1,768	882	1,610	90	69	4,418	NA
AA	NA	NA	2,358	2,076	7,547	3,001	864	15,845	NA
BA+	NA	NA	3,867	4,540	19,581	7,078	2,050	37,117	NA
Veterans	0	303	475	342	4,619	3,099	2,094	10,629	10,932
Did not earn HSD\GED	NA	NA	43	0	45	57	144	289	NA
HSD\GED	NA	NA	195	105	1,423	1,032	357	3,113	NA
Some college -- not attending	NA	NA	114	153	1,484	1,131	762	3,644	NA
Some college -- attending	NA	NA	62	0	30	0	0	91	NA
AA	NA	NA	30	0	605	300	249	1,184	NA
BA+	NA	NA	31	83	1,032	580	582	2,308	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

**Table 22 — Unemployed Labor Force by Age, Veteran Status, and Educational Attainment (Persons 16 and Over): Stanislaus County**

<b>Veterans Status</b>	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Labor Force (25+)</b>	<b>Total Labor Force</b>
<b>Total</b>	<b>3,775</b>	<b>7,156</b>	<b>4,813</b>	<b>4,638</b>	<b>14,341</b>	<b>3,279</b>	<b>1,120</b>	<b>28,191</b>	<b>39,122</b>
Not Veterans	<b>3,775</b>	<b>7,156</b>	<b>4,619</b>	<b>4,604</b>	<b>14,035</b>	<b>3,177</b>	<b>898</b>	<b>27,332</b>	<b>38,263</b>
Did not earn HSD\GED	NA	NA	1,115	1,047	4,944	1,253	371	<b>8,730</b>	NA
HSD\GED	NA	NA	1,681	1,762	4,870	577	247	<b>9,137</b>	NA
Some college -- not attending	NA	NA	924	936	2,064	615	132	<b>4,671</b>	NA
Some college -- attending	NA	NA	407	190	202	33	21	<b>852</b>	NA
AA	NA	NA	292	459	687	212	93	<b>1,743</b>	NA
BA+	NA	NA	200	209	1,269	488	34	<b>2,200</b>	NA
Veterans	<b>0</b>	<b>0</b>	<b>195</b>	<b>34</b>	<b>306</b>	<b>102</b>	<b>222</b>	<b>859</b>	<b>859</b>
Did not earn HSD\GED	NA	NA	0	0	18	0	26	<b>44</b>	NA
HSD\GED	NA	NA	50	0	133	30	0	<b>213</b>	NA
Some college -- not attending	NA	NA	114	0	58	72	69	<b>313</b>	NA
Some college -- attending	NA	NA	0	0	0	0	0	<b>0</b>	NA
AA	NA	NA	30	0	0	0	16	<b>46</b>	NA
BA+	NA	NA	0	34	97	0	111	<b>243</b>	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from IPUMS

**Table 23 — Unemployment Rates by Age, Veteran Status, and Educational Attainment (Persons 16 and Over): Stanislaus County**

<b>Veterans Status</b>	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Labor Force (25+)</b>	<b>Total Labor Force</b>
<b>Total</b>	<b>36.9%</b>	<b>24.5%</b>	<b>16.8%</b>	<b>16.7%</b>	<b>13.4%</b>	<b>9.6%</b>	<b>11.7%</b>	<b>13.6%</b>	<b>15.9%</b>
Not Veterans	<b>36.9%</b>	<b>24.7%</b>	<b>16.4%</b>	<b>16.8%</b>	<b>13.7%</b>	<b>10.3%</b>	<b>12.0%</b>	<b>13.9%</b>	<b>16.3%</b>
Did not earn HSD\GED	NA	NA	26.6%	21.0%	22.6%	20.8%	23.9%	<b>22.6%</b>	NA
HSD\GED	NA	NA	18.4%	25.4%	16.9%	7.8%	15.4%	<b>16.9%</b>	NA
Some college -- not attending	NA	NA	13.5%	11.8%	9.1%	8.3%	9.8%	<b>10.1%</b>	NA
Some college -- attending	NA	NA	23.0%	21.5%	12.5%	36.4%	30.4%	<b>19.3%</b>	NA
AA	NA	NA	12.4%	22.1%	9.1%	7.1%	10.8%	<b>11.0%</b>	NA
BA+	NA	NA	5.2%	4.6%	6.5%	6.9%	1.7%	<b>5.9%</b>	NA
Veterans	<b>NA</b>	<b>0.0%</b>	<b>41.0%</b>	<b>10.0%</b>	<b>6.6%</b>	<b>3.3%</b>	<b>10.6%</b>	<b>8.1%</b>	<b>7.9%</b>
Did not earn HSD\GED	NA	NA	0.0%	NA	40.4%	0.0%	17.8%	<b>15.2%</b>	NA
HSD\GED	NA	NA	25.6%	0.0%	9.3%	2.9%	0.0%	<b>6.8%</b>	NA
Some college -- not attending	NA	NA	100.0%	0.0%	3.9%	6.4%	9.0%	<b>8.6%</b>	NA
Some college -- attending	NA	NA	0.0%	NA	0.0%	NA	NA	<b>0.0%</b>	NA
AA	NA	NA	100.0%	NA	0.0%	0.0%	6.4%	<b>3.9%</b>	NA
BA+	NA	NA	0.0%	41.4%	9.4%	0.0%	19.1%	<b>10.5%</b>	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

**Table 24 — Employed and Unemployed Labor Force by College Degree Status and Economic Sector (Persons 25 and Over): Stanislaus County**

Sectors	College Degree				No College Degree			
	Full-Time	Part-Time	Unemp	UER	Full-Time	Part-Time	Unem	UER
<b>Total</b>	<b>36,929</b>	<b>15,293</b>	<b>4,232</b>	<b>7.5%</b>	<b>86,073</b>	<b>40,368</b>	<b>23,959</b>	<b>15.9%</b>
11 Agriculture	1,009	116	126	8.4%	5,930	2,530	2,837	18.6%
21 Mining	65	0	0	0.0%	299	0	69	6.7%
22 Utilities	266	0	32	0.0%	1,092	231	21	2.5%
23 Construction	890	289	185	4.4%	8,452	3,840	2,389	13.2%
31 Manufacturing	3,870	604	506	8.5%	14,390	4,173	3,449	13.6%
42 Wholesale	1,239	236	169	2.3%	4,821	1,524	589	10.7%
43 Retail	2,718	979	470	12.1%	10,586	5,901	2,245	10.8%
48 Transportation	371	335	213	5.8%	3,788	1,693	713	8.6%
49 Warehousing	231	0	77	9.1%	1,573	471	316	12.7%
51 Information	776	127	74	8.6%	1,199	129	181	11.8%
52 Finance	1,138	255	144	5.8%	2,114	579	184	15.4%
53 Real Estate	483	247	109	7.9%	1,674	807	220	15.0%
54 Prof. Technical	2,776	1,141	203	4.0%	2,233	1,160	457	12.6%
55 MCE	79	0	0	0.0%	51	0	0	0.0%
56 Admin Support	928	913	206	20.3%	3,292	2,953	1,638	16.9%
56 Waste Mgt	65	0	0	0.0%	769	529	158	3.5%
61 Education	7,093	4,856	528	4.7%	2,628	1,774	621	11.1%
62 Health	7,808	2,982	308	5.2%	8,599	3,833	1,640	13.6%
71 Arts, Entrnmnt, etc	124	363	123	8.2%	694	554	134	17.8%
72 Accommodations	30	71	107	9.3%	321	303	60	9.8%
72 Food Services	477	370	85	11.3%	3,279	3,514	872	13.5%
81 Other Services	1,247	1,031	208	4.4%	4,512	3,298	942	9.2%
92 Public Sector	3,044	379	125	6.9%	3,471	511	514	7.1%
98 Military	205	0	14	7.1%	307	64	50	4.1%
99 Long-Term Unemp.	0	0	219	100.0%	0	0	3,660	100.0%

Source: Applied Development Economics, based on US Census ACS Public Use Microdata 2012-2014 from iPUMS

# CONCLUSION

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At 1.3 percent a year, Stanislaus County is expected to grow modestly from now to 2025, although analysts project a number of sectors including, Logistics, Professional and Technical Services and Health Care, among others, to exhibit higher growth rates. However, qualified workers are in short supply for certain key job categories. Based on the analysis presented in this report and discussions with key employers and workforce training organizations, the following can be identified as potential priorities for additional training efforts.

- Medical Technicians
- Electricians
- Maintenance Mechanics
- Ability to use computer operated processing controls and instruments (and related English competency)
- Workers with supervisory and management skills
- Business skills

# APPENDIX

**Appendix Table 1 Employment Projections by Industry Clusters: Agriculture: Distribution: Stanislaus County**

Ag and Food -- Distribution		Employment		Change	Ann. Growth Rate
NAICS	Industry	2015	2025p.	2015-2025	
	<b>Total</b>	<b>11,890</b>	<b>14,347</b>	<b>2,457</b>	<b>1.9%</b>
493110	General Warehousing and Storage	1,478	2,078	601	3.5%
484121	General Freight Trucking, Long-Distance, Truckload	1,001	1,434	434	3.7%
424820	Wine and Distilled Alcoholic Beverage Merchant Wholesalers	363	697	334	6.8%
445110	Supermarkets and Other Grocery (except Convenience) Stores	3,477	3,776	299	0.8%
484230	Specialized Freight (except Used Goods) Trucking	195	345	149	5.8%
424470	Meat and Meat Product Merchant Wholesalers	147	260	113	5.9%
488210	Support Activities for Rail Transportation	243	356	113	3.9%
484110	General Freight Trucking, Local	675	774	99	1.4%
484122	General Freight Trucking, Long-Distance, Less Than Truckload	316	407	91	2.6%
424910	Farm Supplies Merchant Wholesalers	430	513	82	1.8%
424490	Other Grocery and Related Products Merchant Wholesalers	631	706	74	1.1%
445291	Baked Goods Stores	95	168	74	5.9%
445120	Convenience Stores	198	261	63	2.8%
493120	Refrigerated Warehousing and Storage	374	436	62	1.5%
445292	Confectionery and Nut Stores	54	102	48	6.6%
482110	Rail transportation	191	232	41	2.0%
484220	Specialized Freight (except Used Goods) Trucking, Local	734	774	40	0.5%
424590	Other Farm Product Raw Material Merchant Wholesalers	56	75	19	3.0%
424480	Fresh Fruit and Vegetable Merchant Wholesalers	76	90	15	1.8%
481211	Nonscheduled Chartered Passenger Air Transportation	64	72	8	1.2%
488190	Other Support Activities for Air Transportation	25	33	8	2.9%
483113	Coastal and Great Lakes Freight Transportation	3	11	8	13.4%
424930	Flower, Nursery Stock, and Florists' Supplies Wholesalers	25	32	7	0.0%
493190	Other Warehousing and Storage	0	3	3	0.0%
488991	Packing and Crating	3	3	0	0.0%
481112	Scheduled Freight Air Transportation	3	3	0	0.0%
481111	Scheduled Passenger Air Transportation	3	3	0	0.0%
424460	Fish and Seafood Merchant Wholesalers	3	3	0	0.0%
424520	Livestock Merchant Wholesalers	107	107	0	0.0%
424430	Dairy Product (except Dried or Canned) Merchant Wholesalers	47	44	-2	-0.5%
488111	Air Traffic Control	12	0	-12	-100.0%
424450	Confectionery Merchant Wholesalers	51	39	-13	-2.8%
488510	Freight Transportation Arrangement	16	3	-13	-15.3%
445310	Beer, Wine, and Liquor Stores	101	73	-28	-3.2%



Ag and Food -- Distribution		Employment		Change	Ann. Growth Rate
NAICS	Industry	2015	2025p.	2015-2025	
445210	Meat Markets	75	36	-39	-7.0%
445299	All Other Specialty Food Stores	56	3	-53	-25.4%
424810	Beer and Ale Merchant Wholesalers	96	37	-59	-9.1%
424410	General Line Grocery Merchant Wholesalers	467	358	-109	-2.6%

Source: ADE, Inc., based on EMSI QCEW and Non-QCEW 2015 Q4 (notes: "p" = projections)

## Appendix Table 2 - Employment Projections by Industry Clusters: Agriculture: Processing: Stanislaus County

Ag and Food – Processing		Employment		Change	Ann. Growth Rate
NAICS	Industry	2015	2025 p.	2015-2025	
	<b>Total</b>	<b>14,063</b>	<b>14,942</b>	<b>879</b>	<b>0.6%</b>
312130	Wineries	3,098	3,826	729	2.1%
322211	Corrugated and Solid Fiber Box Manufacturing	889	1,340	452	4.2%
311513	Cheese Manufacturing	512	655	143	2.5%
312111	Soft Drink Manufacturing	207	307	101	4.0%
311340	Nonchocolate Confectionery Manufacturing	78	167	88	7.8%
321920	Wood Container and Pallet Manufacturing	231	315	84	3.1%
311919	Other Snack Food Manufacturing	594	676	82	1.3%
311511	Fluid Milk Manufacturing	739	792	53	0.7%
325411	Medicinal and Botanical Manufacturing	73	120	48	5.2%
311830	Tortilla Manufacturing	51	94	43	6.3%
311512	Creamery Butter Manufacturing	101	141	40	3.4%
311812	Commercial Bakeries	88	122	34	3.3%
312120	Breweries	35	66	30	6.4%
312112	Bottled Water Manufacturing	38	67	29	5.8%
311412	Frozen Specialty Food Manufacturing	3	18	15	19.5%
326160	Plastics Bottle Manufacturing	114	127	13	1.1%
311920	Coffee and Tea Manufacturing	3	11	8	14.2%
312113	Ice Manufacturing	18	23	4	2.1%
332439	Other Metal Container Manufacturing	0	3	3	100.0%
326111	Plastics Bag and Pouch Manufacturing	3	3	0	0.0%
312140	Distilleries	3	3	0	unknown
311991	Perishable Prepared Food Manufacturing	3	3	0	unknown
311942	Spice and Extract Manufacturing	3	3	0	unknown
311411	Frozen Fruit, Juice, and Vegetable Manufacturing	3	3	0	unknown
311225	Fats and Oils Refining and Blending	3	3	0	unknown
311941	Mayonnaise, Dressing, and Other Sauce Manufacturing	24	23	-1	-0.5%
327213	Glass Container Manufacturing	809	807	-1	0.0%

Ag and Food – Processing		Employment		Change	Ann. Growth Rate
NAICS	Industry	2015	2025 p.	2015-2025	
311611	Animal (except Poultry) Slaughtering	80	79	-2	-0.2%
311111	Dog and Cat Food Manufacturing	3	0	-3	-100.0%
311514	Dry, Condensed, and Evaporated Dairy Product Manufacturing	101	98	-3	-0.3%
311615	Poultry Processing	1,360	1,354	-6	0.0%
311811	Retail Bakeries	14	3	-11	-14.1%
311999	All Other Miscellaneous Food Manufacturing	100	80	-21	-2.3%
311911	Roasted Nuts and Peanut Butter Manufacturing	489	462	-27	-0.6%
316110	Leather and Hide Tanning and Finishing	32	3	-29	-21.0%
311612	Meat Processed from Carcasses	78	49	-29	-4.5%
311230	Breakfast Cereal Manufacturing	34	3	-31	-21.6%
311613	Rendering and Meat Byproduct Processing	48	12	-36	-12.9%
311520	Ice Cream and Frozen Dessert Manufacturing	116	77	-38	-4.0%
311119	Other Animal Food Manufacturing	417	370	-47	-1.2%
311423	Dried and Dehydrated Food Manufacturing	699	584	-115	-1.8%
332431	Metal Can Manufacturing	664	394	-270	-5.1%
311421	Fruit and Vegetable Canning	2,107	1,657	-451	-2.4%

Source: ADE, Inc., based on EMSI QCEW and Non-QCEW 2015 Q4

**Appendix Table 3 - Employment Projections by Industry Clusters: Agriculture: Production: Stanislaus County**

Ag and Food -- Production		Employment		Change	Ann. Growth Rate
NAICS	Industry	2015	2025p	2015-2025	
	<b>Total</b>	<b>8,062</b>	<b>8,537</b>	<b>475</b>	<b>0.6%</b>
111000	Crop Production	4,938	5,489	552	1.1%
113210	Forest Nurseries and Gathering of Forest Products	22	25	3	1.3%
114210	Hunting and Trapping	3	3	0	0.0%
112000	Animal Production and Aquaculture	3,100	3,020	-80	-0.3%

Source: ADE, Inc., based on EMSI QCEW and Non-QCEW 2015 Q4

**Appendix Table 4 - Employment Projections by Industry Clusters: Agriculture: Support: Stanislaus County**

Ag and Food – Support		Employment		Change	Ann. Growth Rate
NAICS	Industry	2015	2025p.	2015-2025	
	<b>Total</b>	<b>16,167</b>	<b>18,030</b>	<b>1,863</b>	<b>2,143</b>
561320	Temporary Help Services	2,568	3,732	1,164	1,860
115114	Postharvest Crop Activities (except Cotton Ginning)	1,506	2,099	593	144
541690	Other Scientific and Technical Consulting Services	523	1,006	482	143
561110	Office Administrative Services	412	548	136	121
541940	Veterinary Services	584	718	134	113
423860	Transportation Equipment and Supplies Merchant Wholesalers	128	251	122	105
115113	Crop Harvesting, Primarily by Machine	334	425	91	80
541380	Testing Laboratories	279	369	90	71
333111	Farm Machinery and Equipment Manufacturing	373	448	75	69
423850	Service Establishment Equipment, Supplies Merch Wholesalers	144	206	62	61
115116	Farm Management Services	381	442	61	56
541614	Process, Physical Distribution, and Logistics Consulting Services	53	105	53	44
532490	Other Commercial Industrial Machinery and Equipment Leasing	52	98	46	43
423840	Industrial Supplies Merchant Wholesalers	103	143	39	41
562219	Other Nonhazardous Waste Treatment and Disposal	97	136	39	38
541890	Other Services Related to Advertising	92	129	37	37
811310	Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair and Maintenance	296	331	35	35
115210	Support Activities for Animal Production	118	144	26	26
237110	Water and Sewer Line and Related Structures Construction	228	250	22	6
333911	Pump and Pumping Equipment Manufacturing	32	54	22	6
541613	Marketing Consulting Services	36	58	21	5
423830	Industrial Machinery and Equipment Merchant Wholesalers	339	359	19	0
541810	Advertising Agencies	50	62	12	0
541620	Environmental Consulting Services	41	48	7	0
325320	Pesticide and Other Agricultural Chemical Manufacturing	14	21	6	0
562920	Materials Recovery Facilities	18	22	3	0
541870	Advertising Material Distribution Services	3	3	0	0
541830	Media Buying Agencies	3	3	0	0
541820	Public Relations Agencies	3	3	0	0
115310	Support Activities for Forestry	3	3	0	-2
541850	Outdoor Advertising	3	0	-3	-3
325314	Fertilizer (Mixing Only) Manufacturing	17	14	-3	-3
561710	Exterminating and Pest Control Services	233	230	-4	-8
541840	Media Representatives	35	30	-5	-13
541370	Surveying and Mapping (except Geophysical) Services	10	3	-7	-17
444210	Outdoor Power Equipment Stores	16	3	-13	-17
562213	Solid Waste Combustors and Incinerators	20	3	-17	-18

Ag and Food – Support		Employment		Change	Ann. Growth Rate
NAICS	Industry	2015	2025p.	2015-2025	
326291	Rubber Product Manufacturing for Mechanical Use	52	32	-20	-19
551112	Offices of Other Holding Companies	25	3	-22	-21
221310	Water Supply and Irrigation Systems	31	3	-28	-22
115112	Soil Preparation, Planting, and Cultivating	177	137	-40	-28
444220	Nursery, Garden Center, and Farm Supply Stores	201	157	-44	-33
561730	Landscaping Services	635	584	-51	-51
423820	Farm and Garden Machinery and Equipment Merchant Wholesalers	310	256	-54	-54
333993	Packaging Machinery Manufacturing	58	3	-55	-57
522292	Real Estate Credit	209	104	-105	-72
332311	Prefabricated Metal Building and Component Manufacturing	135	20	-114	-77
115115	Farm Labor Contractors and Crew Leaders	3,775	3,566	-209	-94
551114	Corporate, Subsidiary, and Regional Managing Offices	1,409	669	-740	-105

Source: ADE, Inc., based on EMSI QCEW and Non-QCEW 2015 Q4

**Appendix Table 5 - Employment Projections by Industry Clusters: Energy: Stanislaus County**

			Employment		Change	Ann. Growth Rate
Energy Cluster and Sub-Clusters	NAICS	Industry	2015	2025p.	2015-2025	
		<b>Total</b>	<b>10,495</b>	<b>12,033</b>	<b>1,538</b>	<b>1.4%</b>
Energy Core--01Petroleum	213111	Drilling Oil and Gas Wells	3	3	0	0.0%
Energy Core--01Petroleum	324110	Petroleum Refineries	3	3	0	0.0%
Energy Core--02 Petroleum Distribution	424710	Petroleum Bulk Stations and Terminals	101	103	2	0.2%
Energy Core--02 Petroleum Distribution	424720	Petroleum and Petroleum Products Merchant Wholesalers (except Bulk Stations and Terminals)	194	187	-7	-0.4%
Energy Core--03 Power Generation	221210	Natural Gas Distribution	304	396	91	2.7%
Energy Core--04 Alt Energy Production	325193	Ethyl Alcohol Manufacturing	56	118	61	7.7%
Energy Core--04 Alt Energy Production	237110	Water and Sewer Line and Related Structures Construction	228	250	22	0.9%
Energy Core--04 Alt Energy Production	238160	Roofing Contractors	228	49	-178	-14.2%
Energy Core--05 Alt Energy Distribution	423610	Electrical Apparatus and Equipment, Wiring Supplies, and Related Equipment Merchant Wholesalers	83	93	10	1.2%
Energy Core--05 Alt Energy Distribution	423690	Other Electronic Parts and Equipment Merchant Wholesalers	14	14	0	-0.3%
Energy Core--05 Alt Energy Distribution	423720	Plumbing and Heating Equipment and Supplies (Hydronics) Merchant Wholesalers	53	3	-50	-24.9%
Energy Core--06 Energy Efficiency	238220	Plumbing, Heating, and Air-Conditioning Contractors	1,340	1,712	372	2.5%
Energy Core--06 Energy Efficiency	238210	Electrical Contractors and Other Wiring Installation Contractors	1,175	1,390	215	1.7%
Energy Core--06 Energy Efficiency	238310	Drywall and Insulation Contractors	542	6	-536	-36.3%
Energy Core--07 Energy Equipment Mfg	335110	Electric Lamp Bulb and Part Manufacturing	17	21	4	2.1%
Energy Core--07 Energy Equipment Mfg	334515	Instrument Manufacturing for Measuring and Testing Electricity and Electrical Signals	0	3	3	#NUM!
Energy Core--07 Energy Equipment Mfg	334512	Automatic Environmental Control Manufacturing for Residential, Commercial, and Appliance Use	73	58	-15	-2.3%
Energy related--01 Manufacturing	334519	Other Measuring and Controlling Device Manufacturing	75	118	43	4.6%
Energy related--01 Manufacturing	311225	Fats and Oils Refining and Blending	3	3	0	0.0%

			Employment		Change	Ann. Growth Rate
Energy Cluster and Sub-Clusters	NAICS	Industry	2015	2025p.	2015-2025	
Energy related--01 Manufacturing	335312	Motor and Generator Manufacturing	3	3	0	0.0%
Energy related--01 Manufacturing	311613	Rendering and Meat Byproduct Processing	48	12	-36	-12.9%
Energy related--02 Services	811310	Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair and Maintenance	296	331	35	1.1%
Energy related--02 Services	811219	Other Electronic and Precision Equipment Repair and Maintenance	29	41	12	3.6%
Energy related--02 Services	523910	Miscellaneous Intermediation	3	3	0	0.0%
Energy related--02 Services	533110	Lessors of Nonfinancial Intangible Assets (except Copyrighted Works)	14	3	-11	-14.2%
Energy related--03 Research	541	Prof., Scien., Tech.	5,609	7,111	1,502	2.4%

Source: ADE, Inc., based on EMSI QCEW and Non-QCEW 2015 Q4

**Appendix Table 6 - Employment Projections by Industry Clusters: Health and Wellness: All Others: Stanislaus County**

			Employment	Change	Ann. Growth Rate	
Health and Wellness: All Others	NAICS	Industry	2015	2025p.	2015-2025	
		<b>Total</b>	<b>9,086</b>	<b>12,701</b>	<b>3,616</b>	<b>3.4%</b>
Health Care--02 Pharmaceuticals	325411	Medicinal and Botanical Manufacturing	73	120	48	5.2%
Health Care--02 Pharmaceuticals	325412	Pharmaceutical Preparation Manufacturing	50	34	-16	-3.7%
Health Care--03 Wellness and Fitness	446110	Pharmacies and Drug Stores	1,086	1,250	164	1.4%
Health Care--03 Wellness and Fitness	446130	Optical Goods Stores	163	286	123	5.8%
Health Care--03 Wellness and Fitness	621999	All Other Miscellaneous Ambulatory Health Care Services	110	209	99	6.6%
Health Care--03 Wellness and Fitness	446191	Food (Health) Supplement Stores	46	75	28	4.8%
Health Care--03 Wellness and Fitness	621399	Offices of All Other Miscellaneous Health Practitioners	32	44	12	3.2%
Health Care--03 Wellness and Fitness	446199	All Other Health and Personal Care Stores	33	32	-2	-0.5%
Health Care--03 Wellness and Fitness	532291	Home Health Equipment Rental	42	37	-5	-1.1%
Health Care--03 Wellness and Fitness	812191	Diet and Weight Reducing Centers	22	12	-10	-6.0%
Health Care--04 Medical devices manufacturing	339115	Ophthalmic Goods Manufacturing	95	77	-18	-2.1%
Health Care--04 Medical devices manufacturing	339116	Dental Laboratories	34	3	-31	-21.6%
Health Care--04 Medical devices manufacturing	339113	Surgical Appliance and Supplies Manufacturing	38	3	-35	-22.4%

			Employment	Change	Ann. Growth Rate	
Health and Wellness: All Others	NAICS	Industry	2015	2025p.	2015-2025	
Health Care--05 Supplies and Services	424210	Drugs and Druggists' Sundries Merchant Wholesalers	52	76	23	3.7%
Health Care--05 Supplies and Services	813212	Voluntary Health Organizations	20	27	7	3.0%
Health Care--05 Supplies and Services	423460	Ophthalmic Goods Merchant Wholesalers	3	3	0	0.0%
Health Care--05 Supplies and Services	423490	Other Professional Equipment and Supplies Merchant Wholesalers	3	3	0	0.0%
Health Care--05 Supplies and Services	423450	Medical, Dental, and Hospital Equipment and Supplies Merchant Wholesalers	46	19	-27	-8.3%
Health Care--06 Other Services	624110	Child and Youth Services	808	1,170	362	3.8%
Health Care--06 Other Services	624120	Services for the Elderly and Persons with Disabilities	5,318	8,238	2,920	4.5%
Health Care--06 Other Services	624190	Other Individual and Family Services	331	387	56	1.6%
Health Care--06 Other Services	624210	Community Food Services	14	6	-8	-8.3%
Health Care--06 Other Services	624221	Temporary Shelters	126	99	-26	-2.3%
Health Care--06 Other Services	624229	Other Community Housing Services	54	81	27	4.1%
Health Care--06 Other Services	624230	Emergency and Other Relief Services	32	38	6	1.6%
Health Care--06 Other Services	624410	Child Day Care Services	455	373	-82	-2.0%

**Appendix Table 7 - Employment Projections by Industry Clusters: Health and Wellness:  
Delivery: Stanislaus County**

Health and Wellness -- Health Care - Delivery		Employment		Change	Ann. Growth Rate
NAICS	Industry	2015	2025p.	2015-2025	
	<b>Total</b>	<b>21,917</b>	<b>24,698</b>	<b>2,781</b>	<b>1.2%</b>
621491	HMO Medical Centers	1,987	3,168	1,181	4.8%
621610	Home Health Care Services	1,166	1,770	604	4.3%
623110	Nursing Care Facilities (Skilled Nursing Facilities)	2,374	2,851	477	1.8%
622110	General Medical and Surgical Hospitals	6,350	6,582	232	0.4%
621111	Offices of Physicians (except Mental Health Specialists)	3,491	3,690	199	0.6%
621410	Family Planning Centers	215	328	113	4.3%
621910	Ambulance Services	483	585	102	1.9%
621492	Kidney Dialysis Centers	244	334	90	3.2%
621512	Diagnostic Imaging Centers	181	249	68	3.3%
621210	Offices of Dentists	1,522	1,588	67	0.4%
621340	Offices of Physical, Occupational and Speech Therapists, and Audiologists	255	307	52	1.9%
621420	Outpatient Mental Health and Substance Abuse Centers	376	417	41	1.0%
623312	Assisted Living Facilities for the Elderly	703	734	30	0.4%
903622	Hospitals (Local Government)	568	598	30	0.5%
623311	Continuing Care Retirement Communities	350	363	13	0.4%
623220	Residential Mental Health and Substance Abuse Facilities	351	356	4	0.1%
621991	Blood and Organ Banks	3	3	0	0.0%
621391	Offices of Podiatrists	23	19	-3	-1.5%
621112	Offices of Physicians, Mental Health Specialists	37	22	-15	-5.1%
621320	Offices of Optometrists	232	213	-19	-0.9%
621330	Offices of Mental Health Practitioners (except Physicians)	118	96	-22	-2.1%
622210	Psychiatric and Substance Abuse Hospitals	76	53	-23	-3.6%
621310	Offices of Chiropractors	157	124	-33	-2.3%
621511	Medical Laboratories	102	69	-33	-3.8%
621498	All Other Outpatient Care Centers	76	37	-39	-7.0%
621493	Freestanding Ambulatory Surgical and Emergency Centers	42	3	-39	-23.2%
623210	Residential Intellectual and Developmental Disability Facilities	68	3	-65	-26.8%
624310	Vocational Rehabilitation Services	232	118	-113	-6.5%
623990	Other Residential Care Facilities	133	15	-118	-19.5%

Source: ADE, Inc., based on EMSI QCEW and Non-QCEW 2015 Q4



**Appendix Table 8 - Employment Projections by Industry Clusters: Logistics: Stanislaus County**

Logistics --		Employment		Change	Ann. Growth Rate
NAICS	Industry	2015	2025p.	2015-2025	
	<b>Total</b>	<b>6,788</b>	<b>8,945</b>	<b>2,157</b>	<b>2.8%</b>
493110	General Warehousing and Storage	1,478	2,078	601	3.5%
484121	General Freight Trucking, Long-Distance, Truckload	1,001	1,434	434	3.7%
485113	Bus and Other Motor Vehicle Transit Systems	345	585	241	5.4%
485991	Special Needs Transportation	354	536	182	4.2%
484230	Specialized Freight (except Used Goods) Trucking, Long-Distance	195	345	149	5.8%
488210	Support Activities for Rail Transportation	243	356	113	3.9%
484110	General Freight Trucking, Local	675	774	99	1.4%
488410	Motor Vehicle Towing	155	247	93	4.8%
484122	General Freight Trucking, Long-Distance, Less Than Truckload	316	407	91	2.6%
492210	Local Messengers and Local Delivery	104	166	63	4.9%
493120	Refrigerated Warehousing and Storage	374	436	62	1.5%
541614	Process, Physical Distribution, and Logistics Consulting Services	53	105	53	7.1%
482110	Rail transportation	191	232	41	2.0%
484220	Specialized Freight (except Used Goods) Trucking, Local	734	774	40	0.5%
488999	All Other Support Activities for Transportation	69	93	24	3.1%
481211	Nonscheduled Chartered Passenger Air Transportation	64	72	8	1.2%
488190	Other Support Activities for Air Transportation	25	33	8	2.9%
483113	Coastal and Great Lakes Freight Transportation	3	11	8	13.4%
485111	Mixed Mode Transit Systems	19	23	4	1.8%
493190	Other Warehousing and Storage	0	3	3	100.0%
336120	Heavy Duty Truck Manufacturing	3	3	0	0.0%
481111	Scheduled Passenger Air Transportation	3	3	0	0.0%
481112	Scheduled Freight Air Transportation	3	3	0	0.0%
485310	Taxi Service	3	3	0	0.0%
485999	All Other Transit and Ground Passenger Transportation	3	3	0	0.0%
488991	Packing and Crating	3	3	0	0.0%
492110	Couriers and Express Delivery Services	330	329	-1	0.0%
484210	Used Household and Office Goods Moving	84	82	-2	-0.2%
485210	Interurban and Rural Bus Transportation	17	15	-2	-1.2%
336612	Boat Building	3	0	-3	-100.0%
488490	Other Support Activities for Road Transportation	18	11	-6	-4.4%
485410	School and Employee Bus Transportation	180	173	-7	-0.4%
488111	Air Traffic Control	12	0	-12	-100.0%
488510	Freight Transportation Arrangement	16	3	-13	-15.3%
493130	Farm Product Warehousing and Storage	22	3	-19	-18.2%
485510	Charter Bus Industry	183	157	-27	-1.6%

Source: ADE, Inc., based on EMSI QCEW and Non-QCEW 2015 Q4

**Appendix Table 9 - Employment Projections by Industry Clusters: Manufacturing: All Others: Stanislaus County**

Manufacturing -- Other		Employment		Change	Ann. Growth Rate
NAICS	Industry	2015	2025p.	2015-2025	
	<b>Total</b>	<b>3,344</b>	<b>3,169</b>	<b>-175</b>	<b>-0.5%</b>
326199	All Other Plastics Product Manufacturing	208	384	175	6.3%
332312	Fabricated Structural Metal Manufacturing	255	411	155	4.9%
327320	Ready-Mix Concrete Manufacturing	198	272	74	3.2%
332322	Sheet Metal Work Manufacturing	138	190	52	3.2%
332999	All Other Miscellaneous Fabricated Metal Product	106	154	48	3.9%
321114	Wood Preservation	64	108	44	5.3%
332722	Bolt, Nut, Screw, Rivet, and Washer Manufacturing	65	96	32	4.1%
331210	Iron and Steel Pipe and Tube Manu from Purchased Steel	24	55	31	8.8%
332710	Machine Shops	218	248	30	1.3%
327390	Other Concrete Product Manufacturing	22	51	29	8.9%
321911	Wood Window and Door Manufacturing	30	53	23	5.8%
332996	Fabricated Pipe and Pipe Fitting Manufacturing	3	21	18	21.5%
333514	Special Die and Tool, Die Set, Jig, and Fixture Manufacturing	87	103	17	1.8%
323113	Commercial Screen Printing	41	50	9	1.9%
325320	Pesticide and Other Agricultural Chemical Manufacturing	14	21	6	3.8%
337215	Showcase, Partition, Shelving, and Locker Manufacturing	12	13	1	0.6%
314999	All Other Miscellaneous Textile Product Mills	3	3	0	0.0%
321918	Other Millwork (including Flooring)	3	3	0	0.0%
325120	Industrial Gas Manufacturing	3	3	0	0.0%
325199	All Other Basic Organic Chemical Manufacturing	3	3	0	0.0%
325211	Plastics Material and Resin Manufacturing	3	3	0	0.0%
325510	Paint and Coating Manufacturing	3	3	0	0.0%
325612	Polish and Other Sanitation Good Manufacturing	3	3	0	0.0%
325998	All Other Miscellaneous Chemical Product and Preparation Manufacturing	3	3	0	0.0%
326113	Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing	3	3	0	0.0%
326140	Polystyrene Foam Product Manufacturing	3	3	0	0.0%
326212	Tire Retreading	3	3	0	0.0%
331222	Steel Wire Drawing	3	3	0	0.0%
332323	Ornamental and Architectural Metal Work Manufacturing	3	3	0	0.0%
333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing	3	3	0	0.0%
333511	Industrial Mold Manufacturing	3	3	0	0.0%

Manufacturing -- Other		Employment		Change	Ann. Growth Rate
NAICS	Industry	2015	2025p.	2015-2025	
334220	Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing	3	3	0	0.0%
334310	Audio and Video Equipment Manufacturing	3	3	0	0.0%
334419	Other Electronic Component Manufacturing	3	3	0	0.0%
334510	Electromedical and Electrotherapeutic Apparatus Manufacturing	3	3	0	0.0%
336211	Motor Vehicle Body Manufacturing	3	3	0	0.0%
336999	All Other Transportation Equipment Manufacturing	3	3	0	0.0%
337127	Institutional Furniture Manufacturing	3	3	0	0.0%
337211	Wood Office Furniture Manufacturing	3	3	0	0.0%
337920	Blind and Shade Manufacturing	3	3	0	0.0%
339992	Musical Instrument Manufacturing	3	3	0	0.0%
333120	Construction Machinery Manufacturing	20	19	0	-0.1%
321213	Engineered Wood Member (except Truss) Manufacturing	3	0	-3	-100.0%
321992	Prefabricated Wood Building Manufacturing	3	0	-3	-100.0%
332993	Ammunition (except Small Arms) Manufacturing	3	0	-3	-100.0%
336612	Boat Building	3	0	-3	-100.0%
325314	Fertilizer (Mixing Only) Manufacturing	17	14	-3	-2.2%
323117	Books Printing	17	12	-5	-3.7%
332812	Metal Coating, Engraving (except Jewelry and Silverware), and Allied Services to Manufacturers	23	18	-5	-2.6%
337214	Office Furniture (except Wood) Manufacturing	10	3	-7	-11.4%
333922	Conveyor and Conveying Equipment Manufacturing	10	3	-7	-11.4%
323111	Commercial Printing (except Screen and Books)	249	241	-7	-0.3%
333995	Fluid Power Cylinder and Actuator Manufacturing	12	3	-9	-12.9%
339999	All Other Miscellaneous Manufacturing	13	3	-10	-13.4%
325910	Printing Ink Manufacturing	13	3	-10	-13.4%
332813	Electroplating, Plating, Polishing, Anodizing, and Coloring	13	3	-10	-13.6%
327991	Cut Stone and Stone Product Manufacturing	13	3	-10	-13.7%
339950	Sign Manufacturing	108	98	-11	-1.0%
324121	Asphalt Paving Mixture and Block Manufacturing	15	3	-12	-14.7%
332721	Precision Turned Product Manufacturing	15	3	-12	-15.0%
336214	Travel Trailer and Camper Manufacturing	20	3	-17	-17.3%
321991	Manufactured Home (Mobile Home) Manufacturing	17	0	-17	-100.0%
332618	Other Fabricated Wire Product Manufacturing	32	12	-20	-9.4%
326291	Rubber Product Manufacturing for Mechanical Use	52	32	-20	-4.8%
333999	All Other Miscellaneous General Purpose Machinery Manufacturing	44	21	-24	-7.4%
332313	Plate Work Manufacturing	31	3	-28	-20.9%
332919	Other Metal Valve and Pipe Fitting Manufacturing	87	58	-29	-3.9%
336212	Truck Trailer Manufacturing	59	26	-34	-8.0%
332321	Metal Window and Door Manufacturing	116	78	-38	-3.8%
336360	Motor Vehicle Seating and Interior Trim Manufacturing	51	11	-41	-14.4%

Manufacturing -- Other		Employment		Change	Ann. Growth Rate
NAICS	Industry	2015	2025p.	2015-2025	
333993	Packaging Machinery Manufacturing	58	3	-55	-25.6%
321214	Truss Manufacturing	168	94	-74	-5.6%
337110	Wood Kitchen Cabinet and Countertop Manufacturing	89	3	-86	-28.7%
332311	Prefabricated Metal Building and Component Manufacturing	135	20	-114	-17.2%
337122	Nonupholstered Wood Household Furniture Manufacturing	265	73	-192	-12.0%

Source: ADE, Inc., based on EMSI QCEW and Non-QCEW 2015 Q4

**Appendix Table 10 - Employment Projections by Industry Clusters: Water Flow Technologies: Stanislaus County**

Water Flow Technology --		Employment		Change	Ann. Growth Rate
NAICS	Industry	2015	2025p.	2015-2025	
	<b>Total</b>	<b>1,175</b>	<b>1,373</b>	<b>198</b>	<b>1.6%</b>
424910	Farm Supplies Merchant Wholesalers	430	513	82	1.8%
333111	Farm Machinery and Equipment Manufacturing	373	448	75	1.8%
333911	Pump and Pumping Equipment Manufacturing	32	54	22	5.3%
423830	Industrial Machinery and Equipment Merchant Wholesalers	339	359	19	0.6%

Source: ADE, Inc., based on EMSI QCEW and Non-QCEW 2015 Q4

**Appendix Table 11 - Employment Projections by Industry Clusters: Heavy Construction: Stanislaus County**

Heavy Construction		Employment		Change	Ann. Growth Rate
NAICS	Industry	2015	2025p.	2015-2025	
	<b>Total</b>	<b>788</b>	<b>664</b>	<b>-124</b>	<b>-1.7%</b>
237110	Water and Sewer Line and Related Structures Construction	228	250	22	0.9%
237210	Land Subdivision	45	53	8	1.7%
237000	Local govt hvy cons.	67	73	6	0.9%
237120	Oil and Gas Pipeline and Related Structures Construction	3	3	0	0.0%
237990	Other Heavy and Civil Engineering Construction	24	6	-18	-12.9%
237130	Power and Communication Line and Related Structures Construction	126	70	-56	-5.7%
237310	Highway, Street, and Bridge Construction	294	209	-85	-3.4%

Source: ADE, Inc., based on EMSI QCEW and Non-QCEW 2015 Q4

**Appendix Table 12 - Employment Projections by Industry Clusters: Accommodations and Food Services, and Retail: Stanislaus County**

Accommodations, Food and Retail		Employment	Change	Ann. Growth Rate	
NAICS	Industries	2015	2025p.	2015-2025	
44-45	Retail	22,450	26,230	3,780	1.6%
721	Accommodations	735	781	46	0.6%
722	Food services	14,623	16,967	2,344	1.5%

Source: ADE, Inc., based on EMSI QCEW and Non-QCEW 2015 Q4

**Appendix Table 13 - Employed Labor Force by Age, Race\Ethnicity, and Educational Attainment (Persons 16 and Over): Stanislaus County**

Race\Ethnicity	16-19	20-24	25-29	30-34	35-54	55-64	65+	25 and Over Only	Total
<b>Total</b>	<b>6,758</b>	<b>22,087</b>	<b>23,830</b>	<b>23,080</b>	<b>92,510</b>	<b>30,788</b>	<b>8,454</b>	<b>178,663</b>	<b>207,508</b>
White	2,291	8,747	9,992	9,414	44,986	19,495	6,031	89,918	100,956
Did not earn HSD\GED	NA	NA	497	493	2,203	968	201	4,362	NA
HSD\GED	NA	NA	2,888	2,177	13,124	5,118	1,591	24,898	NA
Some college -- not attending	NA	NA	3,074	3,578	12,213	5,155	1,541	25,561	NA
Some college -- attending	NA	NA	526	263	633	26	0	1,447	NA
AA	NA	NA	882	740	4,534	2,400	660	9,216	NA
BA+	NA	NA	2,125	2,164	12,280	5,829	2,037	24,434	NA
Latino	3,924	11,011	11,187	11,167	37,213	7,898	1,647	69,112	84,046
Did not earn HSD\GED	NA	NA	2,401	3,275	13,610	3,292	947	23,525	NA
HSD\GED	NA	NA	4,241	2,618	10,339	2,083	125	19,407	NA
Some college -- not attending	NA	NA	2,205	3,032	7,365	1,713	225	14,539	NA
Some college -- attending	NA	NA	769	277	324	31	48	1,450	NA
AA	NA	NA	669	548	2,046	354	104	3,721	NA
BA+	NA	NA	902	1,417	3,529	424	198	6,470	NA
Other	543	2,329	2,652	2,499	10,311	3,395	777	19,634	22,506
Did not earn HSD\GED	NA	NA	219	172	1,171	570	149	2,281	NA
HSD\GED	NA	NA	468	482	1,834	591	0	3,376	NA
Some college -- not attending	NA	NA	652	564	2,501	981	136	4,833	NA
Some college -- attending	NA	NA	128	152	481	0	0	761	NA
AA	NA	NA	514	329	887	335	239	2,304	NA
BA+	NA	NA	670	799	3,439	918	252	6,078	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

**Appendix Table 14 - Full-Time Employed Labor Force by Age, Race\Ethnicity, and Educational Attainment (Persons 16 and Over): Stanislaus County**

Race\Ethnicity	16-19	20-24	25-29	30-34	35-54	55-64	65+	25 and Over Only	Total
<b>Total</b>	<b>433</b>	<b>7,997</b>	<b>14,914</b>	<b>16,177</b>	<b>66,118</b>	<b>22,000</b>	<b>3,793</b>	<b>123,002</b>	<b>131,432</b>
White	110	3,054	6,163	6,828	32,544	14,384	2,745	62,664	65,828
Did not earn HSD\GED	NA	NA	321	374	1,567	629	112	3,003	NA
HSD\GED	NA	NA	1,615	1,594	9,006	3,863	873	16,951	NA
Some college -- not attending	NA	NA	2,018	2,613	8,921	3,916	649	18,118	NA
Some college -- attending	NA	NA	321	164	369	0	0	854	NA
AA	NA	NA	411	545	3,468	1,683	323	6,430	NA
BA+	NA	NA	1,477	1,539	9,213	4,293	788	17,309	NA
Latino	323	4,326	7,062	7,808	26,062	5,506	571	47,010	51,659
Did not earn HSD\GED	NA	NA	1,421	2,336	8,740	2,179	354	15,030	NA
HSD\GED	NA	NA	3,100	1,664	7,264	1,295	33	13,357	NA
Some college -- not attending	NA	NA	1,416	2,319	5,631	1,353	16	10,735	NA
Some college -- attending	NA	NA	247	182	265	31	0	726	NA
AA	NA	NA	300	427	1,406	284	29	2,446	NA
BA+	NA	NA	579	879	2,756	363	139	4,716	NA
Other	0	617	1,689	1,541	7,511	2,110	477	13,328	13,945
Did not earn HSD\GED	NA	NA	151	19	617	219	59	1,065	NA
HSD\GED	NA	NA	430	248	1,171	369	0	2,217	NA
Some college -- not attending	NA	NA	341	308	1,874	759	108	3,391	NA
Some college -- attending	NA	NA	22	152	452	0	0	627	NA
AA	NA	NA	316	329	783	295	134	1,857	NA
BA+	NA	NA	429	484	2,615	467	176	4,171	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

**Appendix Table 15 - Labor Force by Age, Gender, and Educational Attainment (Persons 16 and Over): Stanislaus County**

Gender	16-19	20-24	25-29	30-34	35-54	55-64	65+	25 and Over Only	Total
<b>Total</b>	<b>10,963</b>	<b>29,244</b>	<b>28,644</b>	<b>27,718</b>	<b>106,851</b>	<b>34,067</b>	<b>9,574</b>	<b>206,855</b>	<b>247,061</b>
Men	5,256	16,385	16,440	15,563	58,065	18,121	5,897	114,086	135,728
Did not earn HSD\GED	NA	NA	3,344	3,663	13,406	2,966	1,189	24,568	NA
HSD\GED	NA	NA	5,114	4,635	17,561	4,672	1,034	33,017	NA
Some college -- not attending	NA	NA	4,013	4,030	13,058	5,233	1,307	27,640	NA
Some college -- attending	NA	NA	1,309	332	470	31	48	2,190	NA
AA	NA	NA	878	864	3,264	1,419	541	6,966	NA
BA+	NA	NA	1,782	2,039	10,305	3,800	1,778	19,705	NA
Women	5,706	12,858	12,204	12,155	48,787	15,946	3,677	92,769	111,333
Did not earn HSD\GED	NA	NA	888	1,324	8,540	3,118	505	14,374	NA
HSD\GED	NA	NA	4,214	2,404	12,738	3,728	930	24,014	NA
Some college -- not attending	NA	NA	2,956	4,081	11,143	3,302	796	22,277	NA
Some college -- attending	NA	NA	521	550	1,169	58	21	2,319	NA
AA	NA	NA	1,510	1,212	4,889	1,882	571	10,063	NA
BA+	NA	NA	2,116	2,584	10,308	3,858	855	19,720	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS



**Appendix Table 16 - Part-Time Employed Labor Force by Age, Gender, and Educational Attainment (Persons 16 and Over): Stanislaus County**

Gender	16-19	20-24	25-29	30-34	35-54	55-64	65+	25 and Over Only	Total
<b>Total</b>	<b>6,324</b>	<b>14,090</b>	<b>8,916</b>	<b>6,903</b>	<b>26,393</b>	<b>8,788</b>	<b>4,661</b>	<b>55,661</b>	<b>76,076</b>
Men	2,915	7,363	4,299	2,969	11,040	3,346	2,793	24,446	34,724
Did not earn HSD\GED	NA	NA	934	745	3,225	400	557	5,862	NA
HSD\GED	NA	NA	805	1,021	3,646	1,035	443	6,951	NA
Some college -- not attending	NA	NA	1,082	597	2,183	833	640	5,336	NA
Some college -- attending	NA	NA	613	12	112	0	48	785	NA
AA	NA	NA	279	109	318	268	243	1,216	NA
BA+	NA	NA	585	484	1,556	809	862	4,297	NA
Women	3,409	6,727	4,617	3,935	15,353	5,442	1,868	31,215	41,352
Did not earn HSD\GED	NA	NA	290	466	2,835	1,403	216	5,209	NA
HSD\GED	NA	NA	1,647	751	4,210	1,230	367	8,206	NA
Some college -- not attending	NA	NA	1,074	1,336	3,468	987	489	7,354	NA
Some college -- attending	NA	NA	219	182	240	26	0	667	NA
AA	NA	NA	760	208	1,492	559	274	3,291	NA
BA+	NA	NA	627	993	3,108	1,238	523	6,488	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from IPUMS

**Appendix Table 17 - Unemployed Labor Force by Age, Gender, and Educational Attainment (Persons 16 and Over)**

Gender	16-19	20-24	25-29	30-34	35-54	55-64	65+	25 and Over Only	Total
<b>Total</b>	<b>4,205</b>	<b>7,156</b>	<b>4,813</b>	<b>4,638</b>	<b>14,341</b>	<b>3,279</b>	<b>1,120</b>	<b>28,191</b>	<b>39,553</b>
Men	2,010	4,097	2,923	2,375	6,947	1,331	748	14,324	20,432
Did not earn HSD\GED	NA	NA	871	630	2,321	555	245	4,623	NA
HSD\GED	NA	NA	1,033	1,057	2,486	362	129	5,067	NA
Some college -- not attending	NA	NA	548	305	929	319	138	2,238	NA
Some college -- attending	NA	NA	259	69	105	0	0	434	NA
AA	NA	NA	169	163	176	0	90	597	NA
BA+	NA	NA	43	150	931	95	146	1,366	NA
Women	2,195	3,059	1,890	2,263	7,394	1,948	372	13,867	19,121
Did not earn HSD\GED	NA	NA	244	417	2,642	698	151	4,151	NA
HSD\GED	NA	NA	698	705	2,517	245	118	4,282	NA
Some college -- not attending	NA	NA	490	632	1,193	368	63	2,746	NA
Some college -- attending	NA	NA	148	121	96	33	21	418	NA
AA	NA	NA	154	296	511	212	19	1,192	NA
BA+	NA	NA	157	93	435	392	0	1,078	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

**Appendix Table 18 - Unemployment Rates by Age, Gender, and Educational Attainment**

Gender	16-19	20-24	25-29	30-34	35-54	55-64	65+	25 and Over Only	Total
<b>Total</b>	<b>38.4%</b>	<b>24.5%</b>	<b>16.8%</b>	<b>16.7%</b>	<b>13.4%</b>	<b>9.6%</b>	<b>11.7%</b>	<b>13.6%</b>	<b>16.0%</b>
Men	38.2%	25.0%	17.8%	15.3%	12.0%	7.3%	12.7%	12.6%	15.1%
Did not earn HSD\GED	NA	NA	26.0%	17.2%	17.3%	18.7%	20.6%	18.8%	NA
HSD\GED	NA	NA	20.2%	22.8%	14.2%	7.7%	12.5%	15.3%	NA
Some college -- not attending	NA	NA	13.7%	7.6%	7.1%	6.1%	10.5%	8.1%	NA
Some college -- attending	NA	NA	19.8%	20.9%	22.4%	0.0%	0.0%	19.8%	NA
AA	NA	NA	19.2%	18.9%	5.4%	0.0%	16.6%	8.6%	NA
BA+	NA	NA	2.4%	7.4%	9.0%	2.5%	8.2%	6.9%	NA
Women	38.5%	23.8%	15.5%	18.6%	15.2%	12.2%	10.1%	14.9%	0
Did not earn HSD\GED	NA	NA	27.5%	31.5%	30.9%	22.4%	29.9%	28.9%	NA
HSD\GED	NA	NA	16.6%	29.3%	19.8%	6.6%	12.7%	17.8%	NA
Some college -- not attending	NA	NA	16.6%	15.5%	10.7%	11.1%	7.9%	12.3%	NA
Some college -- attending	NA	NA	28.4%	21.9%	8.2%	56.0%	100.0%	18.0%	NA
AA	NA	NA	10.2%	24.4%	10.5%	11.2%	3.4%	11.8%	NA
BA+	NA	NA	7.4%	3.6%	4.2%	10.2%	0.0%	5.5%	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

**Appendix Table 19 - Part-Time Employed Labor Force by Broad Occupation Categories, Educational Attainment and Management Status: Stanislaus County**

	Total (MGR, SPEC, & SUPP)	Managers						
		Sub- Total	<HS	HS	Some Coll OUT	Some Coll IN	AA	BA or up
Broad Occupational Categories	<b>55,661</b>	<b>4,898</b>	<b>653</b>	<b>1,189</b>	<b>951</b>	<b>58</b>	<b>321</b>	<b>1,726</b>
11 Management Occupations	<b>2,006</b>	<b>2,006</b>	410	262	411	46	95	<b>782</b>
13 Business Operations Specialists	<b>794</b>	<b>0</b>	0	0	0	0	0	<b>0</b>
13 Financial Specialists	<b>554</b>	<b>0</b>	0	0	0	0	0	<b>0</b>
15 Computer and Mathematical Occupations	<b>236</b>	<b>0</b>	0	0	0	0	0	<b>0</b>
17 Architecture and Engineering Occupations	<b>339</b>	<b>0</b>	0	0	0	0	0	<b>0</b>
19 Life, Physical, and Social Science Occupations	<b>222</b>	<b>19</b>	0	0	0	0	0	<b>19</b>
21 Community and Social Science Occupations	<b>6,246</b>	<b>157</b>	0	0	0	0	0	<b>157</b>
27 Arts, Design, Entertainment, Sports, and Media	<b>1,026</b>	<b>0</b>	0	0	0	0	0	<b>0</b>
29 Healthcare Practitioners and Technical Occupations	<b>3,027</b>	<b>337</b>	0	0	0	0	0	<b>337</b>
31 Healthcare Support Occupations	<b>1,368</b>	<b>0</b>	0	0	0	0	0	<b>0</b>
33 Protective Service Occupations	<b>1,027</b>	<b>0</b>	0	0	0	0	0	<b>0</b>
35 Food Preparation and Serving Occupations	<b>3,655</b>	<b>396</b>	0	129	200	0	67	<b>0</b>
37 Building and Ground Cleaning and Maintenance Occupations	<b>3,409</b>	<b>24</b>	24	0	0	0	0	<b>0</b>
39 Personal Care and Service Occupations	<b>3,614</b>	<b>369</b>	0	369	0	0	0	<b>0</b>
41 Sales Occupations	<b>6,084</b>	<b>691</b>	137	190	83	0	83	<b>199</b>
43 Office and Administrative Support Occupations	<b>6,238</b>	<b>293</b>	0	193	62	0	38	<b>0</b>
45 Farming, Fishing, and Forestry Occupations	<b>2,389</b>	<b>4</b>	4	0	0	0	0	<b>0</b>
47 Construction Trades	<b>3,431</b>	<b>339</b>	0	47	170	12	39	<b>72</b>
47 Extraction Workers	<b>308</b>	<b>0</b>	0	0	0	0	0	<b>0</b>
49 Installation, Maintenance, and Repair Workers	<b>1,277</b>	<b>0</b>	0	0	0	0	0	<b>0</b>
51 Production Occupations	<b>3,341</b>	<b>263</b>	78	0	25	0	0	<b>160</b>
53 Transportation and Material Moving Occupations	<b>5,072</b>	<b>0</b>	0	0	0	0	0	<b>0</b>

		Specialists						
		Sub-Total	<HS	HS	Some Coll OUT	Some Coll IN	AA	BA or up
Broad Occupational Categories		<b>27,356</b>	<b>4,699</b>	<b>7,603</b>	<b>5,420</b>	<b>488</b>	<b>2,158</b>	<b>6,987</b>
11 Management Occupations		<b>0</b>	0	0	0	0	<b>0</b>	0
13 Business Operations Specialists		<b>794</b>	15	158	440	31	<b>52</b>	97
13 Financial Specialists		<b>554</b>	0	14	46	17	<b>64</b>	413
15 Computer and Mathematical Occupations		<b>236</b>	53	0	56	0	<b>0</b>	127
17 Architecture and Engineering Occupations		<b>339</b>	27	36	55	0	<b>73</b>	148
19 Life, Physical, and Social Science Occupations		<b>203</b>	0	0	23	0	<b>25</b>	154
21 Community and Social Science Occupations		<b>4,749</b>	20	215	181	168	<b>279</b>	3,886
27 Arts, Design, Entertainment, Sports, and Media		<b>1,026</b>	94	268	211	35	<b>107</b>	312
29 Healthcare Practitioners and Technical Occupations		<b>2,690</b>	0	287	447	112	<b>815</b>	1,029
31 Healthcare Support Occupations		<b>0</b>	0	0	0	0	<b>0</b>	0
33 Protective Service Occupations		<b>180</b>	0	84	21	0	<b>0</b>	74
35 Food Preparation and Serving Occupations		<b>2,024</b>	665	667	542	0	<b>30</b>	120
37 Building and Ground Cleaning and Maintenance Occupations		<b>0</b>	0	0	0	0	<b>0</b>	0
39 Personal Care and Service Occupations		<b>1,079</b>	33	477	268	68	<b>81</b>	152
41 Sales Occupations		<b>733</b>	17	407	206	0	<b>59</b>	44
43 Office and Administrative Support Occupations		<b>32</b>	0	0	0	0	<b>0</b>	32
45 Farming, Fishing, and Forestry Occupations		<b>0</b>	0	0	0	0	<b>0</b>	0
47 Construction Trades		<b>3,092</b>	1,277	954	752	0	<b>54</b>	55
47 Extraction Workers		<b>308</b>	88	140	80	0	<b>0</b>	0
49 Installation, Maintenance, and Repair Workers		<b>1,174</b>	68	677	265	30	<b>114</b>	20
51 Production Occupations		<b>3,078</b>	1,048	1,192	603	0	<b>78</b>	157
53 Transportation and Material Moving Occupations		<b>5,067</b>	1,295	2,026	1,225	27	<b>327</b>	166

		Support						
		Sub-Total	<HS	HS	Some Coll OUT	Some Coll IN	AA	BA or up
Broad Occupational Categories		<b>23,407</b>	<b>5,719</b>	<b>6,364</b>	<b>6,319</b>	905	2,028	2,072
11 Management Occupations		<b>0</b>	0	0	0	0	0	0
13 Business Operations Specialists		<b>0</b>	0	0	0	0	0	0
13 Financial Specialists		<b>0</b>	0	0	0	0	0	0
15 Computer and Mathematical Occupations		<b>0</b>	0	0	0	0	0	0
17 Architecture and Engineering Occupations		<b>0</b>	0	0	0	0	0	0
19 Life, Physical, and Social Science Occupations		<b>0</b>	0	0	0	0	0	0
21 Community and Social Science Occupations		<b>1,340</b>	0	116	438	26	286	475
27 Arts, Design, Entertainment, Sports, and Media Occupations		<b>0</b>	0	0	0	0	0	0
29 Healthcare Practitioners and Technical Occupations		<b>0</b>	0	0	0	0	0	0
31 Healthcare Support Occupations		<b>1,368</b>	92	411	520	21	194	130
33 Protective Service Occupations		<b>847</b>	110	134	278	0	62	263
35 Food Preparation and Serving Occupations		<b>1,235</b>	113	448	366	68	195	43
37 Building and Ground Cleaning and Maintenance Occupations		<b>3,385</b>	1,869	901	308	69	189	50
39 Personal Care and Service Occupations		<b>2,166</b>	588	703	483	86	196	111
41 Sales Occupations		<b>4,660</b>	669	1,283	1,667	557	192	293
43 Office and Administrative Support Occupations		<b>5,912</b>	268	2,158	2,051	79	715	641
45 Farming, Fishing, and Forestry Occupations		<b>2,385</b>	2,010	169	203	0	0	3
47 Construction Trades		<b>0</b>	0	0	0	0	0	0
47 Extraction Workers		<b>0</b>	0	0	0	0	0	0
49 Installation, Maintenance, and Repair Workers		<b>103</b>	0	41	0	0	0	62
51 Production Occupations		<b>0</b>	0	0	0	0	0	0
53 Transportation and Material Moving Occupations		<b>5</b>	0	0	5	0	0	0

Source: Applied Development Economics, based on US Census ACS Public Use Microdata 2012-2014 from iPUMS

**Appendix Table 20 - Unemployed Labor Force by Broad Occupation Categories, Educational Attainment and Management Status: Stanislaus County**

	Total (MGR, SPEC, & SUPP)	Managers						
		Sub-Total	<HS	HS	Some Coll OUT	Some Coll IN	AA	BA or up
Broad Occupational Categories	<b>28,191</b>	<b>1,423</b>	<b>338</b>	<b>400</b>	<b>229</b>	<b>33</b>	<b>242</b>	<b>181</b>
11 Management Occupations	<b>492</b>	<b>492</b>	0	163	123	33	40	<b>132</b>
13 Business Operations Specialists	<b>250</b>	<b>0</b>	0	0	0	0	0	<b>0</b>
13 Financial Specialists	<b>153</b>	<b>0</b>	0	0	0	0	0	<b>0</b>
15 Computer and Mathematical Occupations	<b>302</b>	<b>0</b>	0	0	0	0	0	<b>0</b>
17 Architecture and Engineering Occupations	<b>120</b>	<b>0</b>	0	0	0	0	0	<b>0</b>
19 Life, Physical, and Social Science Occup	<b>131</b>	<b>0</b>	0	0	0	0	0	<b>0</b>
21 Community and Social Science Occupations	<b>1,112</b>	<b>0</b>	0	0	0	0	0	<b>0</b>
27 Arts, Design, Entertainment, Sports, Media	<b>255</b>	<b>0</b>	0	0	0	0	0	<b>0</b>
29 Healthcare Practitioners and Technical Occupations	<b>309</b>	<b>0</b>	0	0	0	0	0	<b>0</b>
31 Healthcare Support Occupations	<b>574</b>	<b>0</b>	0	0	0	0	0	<b>0</b>
33 Protective Service Occupations	<b>259</b>	<b>0</b>	0	0	0	0	0	<b>0</b>
35 Food Preparation and Serving Occupations	<b>932</b>	<b>144</b>	99	0	45	0	0	<b>0</b>
37 Building, Ground Cleaning and Maintenance	<b>892</b>	<b>0</b>	0	0	0	0	0	<b>0</b>
39 Personal Care and Service Occupations	<b>729</b>	<b>55</b>	0	0	0	0	55	<b>0</b>
41 Sales Occupations	<b>2,138</b>	<b>345</b>	73	189	41	0	43	<b>0</b>
43 Office and Administrative Support Occupations	<b>3,132</b>	<b>77</b>	0	0	0	0	77	<b>0</b>
45 Farming, Fishing, and Forestry Occupations	<b>3,598</b>	<b>64</b>	64	0	0	0	0	<b>0</b>
47 Construction Trades	<b>2,232</b>	<b>83</b>	41	22	20	0	0	<b>0</b>
47 Extraction Workers	<b>142</b>	<b>0</b>	0	0	0	0	0	<b>0</b>
49 Installation, Maintenance, and Repair Workers	<b>1,098</b>	<b>48</b>	0	21	0	0	27	<b>0</b>
51 Production Occupations	<b>2,195</b>	<b>116</b>	61	6	0	0	0	<b>49</b>
53 Transportation and Material Moving Occupations	<b>3,204</b>	<b>0</b>	0	0	0	0	0	<b>0</b>

		Specialists						
		Sub-Total	<HS	HS	Some Coll OUT	Some Coll IN	AA	BA or up
Broad Occupational Categories		<b>11,938</b>	<b>3,265</b>	<b>3,797</b>	<b>2,407</b>	<b>371</b>	<b>605</b>	<b>1,494</b>
11 Management Occupations		<b>0</b>	0	0	0	0	<b>0</b>	0
13 Business Operations Specialists		<b>250</b>	0	124	42	0	<b>35</b>	49
13 Financial Specialists		<b>153</b>	0	41	0	0	<b>22</b>	90
15 Computer and Mathematical Occupations		<b>302</b>	0	26	211	0	<b>0</b>	64
17 Architecture and Engineering Occupations		<b>120</b>	77	43	0	0	<b>0</b>	0
19 Life, Physical, and Social Science Occup		<b>131</b>	0	0	0	66	<b>24</b>	42
21 Community and Social Science Occupations		<b>887</b>	75	61	97	86	<b>27</b>	542
27 Arts, Design, Entertainment, Sports, and Media		<b>255</b>	0	24	76	13	<b>71</b>	72
29 Healthcare Practitioners and Technical Occupations		<b>309</b>	60	7	193	0	<b>0</b>	49
31 Healthcare Support Occupations		<b>0</b>	0	0	0	0	<b>0</b>	0
33 Protective Service Occupations		<b>124</b>	0	0	124	0	<b>0</b>	0
35 Food Preparation and Serving Occupations		<b>353</b>	42	146	57	0	<b>108</b>	0
37 Building, Ground Cleaning and Maintenance		<b>47</b>	0	0	47	0	<b>0</b>	0
39 Personal Care and Service Occupations		<b>225</b>	0	193	32	0	<b>0</b>	0
41 Sales Occupations		<b>224</b>	105	17	20	0	<b>0</b>	81
43 Office and Administrative Support Occupations		<b>58</b>	0	0	0	0	<b>58</b>	0
45 Farming, Fishing, and Forestry Occupations		<b>0</b>	0	0	0	0	<b>0</b>	0
47 Construction Trades		<b>2,149</b>	750	615	511	121	<b>74</b>	78
47 Extraction Workers		<b>142</b>	42	67	0	0	<b>33</b>	0
49 Installation, Maintenance, and Repair Workers		<b>927</b>	354	311	129	0	<b>0</b>	133
51 Production Occupations		<b>2,079</b>	1,016	698	220	0	<b>69</b>	76
53 Transportation and Material Moving Occupations		<b>3,204</b>	744	1,424	648	85	<b>85</b>	218



		Support						
		Sub-Total	<HS	HS	Some Coll OUT	Some Coll IN	AA	BA or up
Broad Occupational Categories		<b>10,950</b>	<b>3,502</b>	<b>3,627</b>	<b>1,909</b>	421	829	662
11 Management Occupations		<b>0</b>	0	0	0	0	0	0
13 Business Operations Specialists		<b>0</b>	0	0	0	0	0	0
13 Financial Specialists		<b>0</b>	0	0	0	0	0	0
15 Computer and Mathematical Occupations		<b>0</b>	0	0	0	0	0	0
17 Architecture and Engineering Occupations		<b>0</b>	0	0	0	0	0	0
19 Life, Physical, and Social Science Occup		<b>0</b>	0	0	0	0	0	0
21 Community and Social Science Occupations		<b>225</b>	57	65	20	0	38	44
27 Arts, Design, Entertainment, Sports, and Media		<b>0</b>	0	0	0	0	0	0
29 Healthcare Practitioners and Technical Occupations		<b>0</b>	0	0	0	0	0	0
31 Healthcare Support Occupations		<b>574</b>	22	255	116	26	82	73
33 Protective Service Occupations		<b>136</b>	22	81	32	0	0	0
35 Food Preparation and Serving Occupations		<b>435</b>	149	103	171	0	0	11
37 Building, Ground Cleaning and Maintenance		<b>845</b>	428	339	53	0	0	25
39 Personal Care and Service Occupations		<b>449</b>	72	308	21	0	48	0
41 Sales Occupations		<b>1,569</b>	123	684	388	58	77	239
43 Office and Administrative Support Occupations		<b>2,997</b>	150	862	974	273	483	255
45 Farming, Fishing, and Forestry Occupations		<b>3,534</b>	2,393	880	133	26	102	0
47 Construction Trades		<b>0</b>	0	0	0	0	0	0
47 Extraction Workers		<b>0</b>	0	0	0	0	0	0
49 Installation, Maintenance, and Repair Workers		<b>123</b>	84	0	0	39	0	0
51 Production Occupations		<b>0</b>	0	0	0	0	0	0
53 Transportation and Material Moving Occupations		<b>0</b>	0	0	0	0	0	0

Source: Applied Development Economics, based on US Census ACS Public Use Microdata 2012-2014 from IPUMS

**Appendix Table 21 - Long-Term Unemployed Labor Force by Educational Attainment (16+): Stanislaus County**

	Total	<HS	HS	Some Coll OUT	Some Coll IN	AA	BA or up
Long-Term Unemployed persons	8,405	2,860	3,559	725	988	127	147

Source: Applied Development Economics, based on US Census ACS Public Use Microdata 2012-2014 from iPUMS

**Appendix Table 22 - Occupational Projections by Education and Training Requirement: New Jobs (Jobs Expected to Grow By At Least 50): Stanislaus County**

OCCCSOC	Occupation	Total	01 Less than high school	02 High school diploma or equivalent	03 Some college, no degree	04 Postsecondary non-degree award	05 Associate's degree	06 Bachelor's degree or higher
		19,264	8,816	5,861	211	1,786	580	2,010
11-1021	General and Operations Mgrs.	332	0	0	0	0	0	332
11-9111	Medical and Health Services Mgrs.	82	0	0	0	0	0	82
13-1111	Management Analysts	88	0	0	0	0	0	88
13-1161	Market Research Analysts	93	0	0	0	0	0	93
13-1199	Business Operations Spec., All Other	76	0	76	0	0	0	0
13-2011	Accountants and Auditors	275	0	0	0	0	0	275
15-1121	Computer Systems Analysts	57	0	0	0	0	0	57
15-1132	Software Developers, Applications	57	0	0	0	0	0	57
15-1151	Computer User Support Spec.	69	0	0	69	0	0	0
21-1021	Child, Family, and School Soc. Wrks.	56	0	0	0	0	0	56
21-1022	Healthcare Soc. Wrks.	70	0	0	0	0	0	70
21-1093	Soc. and Human Service Assistants	168	0	168	0	0	0	0
25-1099	Postsecondary Teachers	273	0	0	0	0	0	273
25-2021	Elementary School Teachers	230	0	0	0	0	0	230
25-2022	Middle School Teachers	64	0	0	0	0	0	64
25-2031	Secondary School Teachers	72	0	0	0	0	0	72

OCCCSOC	Occupation	Total	01 Less than high school	02 High school diploma or equivalent	03 Some college, no degree	04 Postsecondary non-degree award	05 Associate's degree	06 Bachelor's degree or higher
25-3098	Substitute Teachers	96	0	0	0	0	0	96
25-9041	Teacher Assistants	142	0	0	142	0	0	0
29-1051	Pharmacists	73	0	0	0	0	0	73
29-1141	Registered Nurses	580	0	0	0	0	580	0
29-2041	Emergency Medical Technicians	73	0	0	0	73	0	0
29-2052	Pharmacy Technicians	121	0	121	0	0	0	0
29-2061	Licensed Practical and Lic. Voc. Nurses	184	0	0	0	184	0	0
29-2099	Health Technologists and Technicians	65	0	65	0	0	0	0
31-1011	Home Health Aides	430	430	0	0	0	0	0
31-1014	Nursing Assistants	368	0	0	0	368	0	0
31-9092	Medical Assistants	150	0	0	0	150	0	0
33-3051	Police and Sheriff's Patrol Officers	68	0	68	0	0	0	0
35-1012	First-Line Supervisors of Food Prep, Serving Wrks.	254	0	254	0	0	0	0
35-2011	Cooks, Fast Food	137	137	0	0	0	0	0
35-2014	Cooks, Restaurant	213	213	0	0	0	0	0
35-2021	Food Preparation Wrks.	99	99	0	0	0	0	0
35-3021	Combined Food Preparation and Serving Wrks., Including Fast Food	1,201	1,201	0	0	0	0	0
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	68	68	0	0	0	0	0
35-3031	Waiters and Waitresses	203	203	0	0	0	0	0
35-9021	Dishwashers	55	55	0	0	0	0	0
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	428	428	0	0	0	0	0
37-2012	Maids and Housekeeping Cleaners	146	146	0	0	0	0	0
39-1021	First-Line Supervisors of Personal Service Wrks.	50	0	50	0	0	0	0
39-5012	Hairdressers, Hairstylists, and Cosmetologists	63	0	0	0	63	0	0
39-5092	Manicurists and Pedicurists	52	0	0	0	52	0	0
39-9021	Personal Care Aides	1,453	1,453	0	0	0	0	0

OCCCSOC	Occupation	Total	01 Less than high school	02 High school diploma or equivalent	03 Some college, no degree	04 Postsecondary non-degree award	05 Associate's degree	06 Bachelor's degree or higher
39-9031	Fitness Trainers and Aerobics Instructors	60	0	60	0	0	0	0
39-9032	Recreation Wrks.	92	0	0	0	0	0	92
41-1011	First-Line Supervisors of Retail Sales Wrks.	348	0	348	0	0	0	0
41-2011	Cashiers	563	563	0	0	0	0	0
41-2021	Counter and Rental Clerks	82	82	0	0	0	0	0
41-2031	Retail Salespersons	1,486	1,486	0	0	0	0	0
41-3099	Sales Representatives, Services, All Other	164	0	164	0	0	0	0
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	289	0	289	0	0	0	0
41-9011	Demonstrators and Product Promoters	77	0	77	0	0	0	0
43-1011	First-Line Supervisors of Office and Administrative Support Wrks.	213	0	213	0	0	0	0
43-3021	Billing and Posting Clerks	112	0	112	0	0	0	0
43-3031	Bookkeeping, Accounting, and Auditing Clerks	259	0	259	0	0	0	0
43-4051	Customer Service Representatives	377	0	377	0	0	0	0
43-4171	Receptionists and Information Clerks	126	0	126	0	0	0	0
43-5032	Dispatchers, Except Police, Fire, and Ambulance	75	0	75	0	0	0	0
43-5071	Shipping, Receiving, and Traffic Clerks	87	0	87	0	0	0	0
43-5081	Stock Clerks and Order Fillers	299	299	0	0	0	0	0
43-6013	Medical Secretaries	147	0	147	0	0	0	0
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	350	0	350	0	0	0	0
43-9061	Office Clerks, General	309	0	309	0	0	0	0
45-2091	Agricultural Equipment Operators	85	85	0	0	0	0	0
45-2092	FarmWrks. and Laborers, Crop, Nursery, and Greenhouse	425	425	0	0	0	0	0
45-2093	FarmWrks., Farm, Ranch, and	53	53	0	0	0	0	0

OCCCSOC	Occupation	Total	01 Less than high school	02 High school diploma or equivalent	03 Some college, no degree	04 Postsecondary non-degree award	05 Associate's degree	06 Bachelor's degree or higher
	Aquacultural Animals							
47-1011	First-Line Supervisors of Construction Trades and Extraction Wrks.	66	0	66	0	0	0	0
47-2031	Carpenters	101	0	101	0	0	0	0
47-2061	Construction Laborers	97	97	0	0	0	0	0
47-2111	Electricians	99	0	99	0	0	0	0
47-2141	Painters, Construction and Maintenance	207	207	0	0	0	0	0
47-2152	Plumbers, Pipefitters, and Steamfitters	108	0	108	0	0	0	0
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	74	0	74	0	0	0	0
49-3023	Automotive Service Technicians and Mechanics	152	0	152	0	0	0	0
49-3031	Bus and Truck Mechanics and Diesel Engine Spec.	89	0	89	0	0	0	0
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	76	0	0	0	76	0	0
49-9041	Industrial Machinery Mechanics	134	0	134	0	0	0	0
49-9071	Maintenance and Repair Wrks., General	187	0	187	0	0	0	0
51-2092	Team Assemblers	67	0	67	0	0	0	0
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	76	0	76	0	0	0	0
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	57	0	57	0	0	0	0
51-9111	Packaging and Filling Machine Operators and Tenders	67	0	67	0	0	0	0
51-9196	Paper Goods Machine Setters, Operators, and Tenders	101	0	101	0	0	0	0
53-1021	First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	54	0	54	0	0	0	0
53-1031	First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators	68	0	68	0	0	0	0
53-3021	Bus Drivers, Transit and Intercity	165	0	165	0	0	0	0

OCCCSOC	Occupation	Total	01 Less than high school	02 High school diploma or equivalent	03 Some college, no degree	04 Postsecondary non-degree award	05 Associate's degree	06 Bachelor's degree or higher
53-3022	Bus Drivers, School or Special Client	91	0	91	0	0	0	0
53-3031	Driver/Sales Wrks.	136	0	136	0	0	0	0
53-3032	Heavy and Tractor-Trailer Truck Drivers	819	0	0	0	819	0	0
53-3033	Light Truck or Delivery Services Drivers	173	0	173	0	0	0	0
53-3041	Taxi Drivers and Chauffeurs	80	80	0	0	0	0	0
53-7051	Industrial Truck and Tractor Operators	77	77	0	0	0	0	0
53-7061	Cleaners of Vehicles and Equipment	93	93	0	0	0	0	0
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	623	623	0	0	0	0	0
53-7064	Packers and Packagers, Hand	159	159	0	0	0	0	0
53-7081	Refuse and Recyclable Material Collectors	51	51	0	0	0	0	0
Source:Applied Development Economics, based on EMSI								

**Appendix Table 23 - Occupational Projections by Education and Training Requirement: Annual and Cumulative Projected Openings (At Least 50): Stanislaus County**

US Census PUMS OCCSOC	Occupation	Annual Openings	Projected Annual Opening Over Ten Years (2015- 2025)	Rank
		<b>6,536</b>	<b>65,364</b>	
53-7081	Refuse and Recyclable Material Collectors	8	80	164
53-7064	Packers and Packagers, Hand	48	476	29
53-7063	Machine Feeders and Offbearers	5	55	221
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	162	1,625	5
53-7061	Cleaners of Vehicles and Equipment	26	255	63
53-7051	Industrial Truck and Tractor Operators	41	414	35

US Census PUMS OCCSOC	Occupation	Annual Openings	Projected Annual Opening Over Ten Years (2015- 2025)	Rank
53-6031	Automotive and Watercraft Service Attendants	7	67	190
53-3041	Taxi Drivers and Chauffeurs	10	100	134
53-3030	Light Truck or Delivery Services Drivers	35	354	48
53-3030	Heavy and Tractor-Trailer Truck Drivers	150	1,495	7
53-3030	Driver/Sales Workers	26	257	62
53-3020	Bus Drivers, School or Special Client	21	208	70
53-3020	Bus Drivers, Transit and Intercity	28	279	60
53-1000	First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators	15	145	103
53-1000	First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	12	125	111
51-91XX	Production Workers, All Other	16	162	95
51-9198	Helpers--Production Workers	18	175	89
51-9196	Paper Goods Machine Setters, Operators, and Tenders	14	136	104
51-9111	Packaging and Filling Machine Operators and Tenders	64	635	21
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	22	221	68
51-9020	Mixing and Blending Machine Setters, Operators, and Tenders	7	72	184
51-9010	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	23	229	67
51-8031	Water and Wastewater Treatment Plant and System Operators	7	72	184
51-6011	Laundry and Dry-Cleaning Workers	6	55	217
51-4120	Welders, Cutters, Solderers, and Brazers	9	89	151

US Census PUMS OCCSOC	Occupation	Annual Openings	Projected Annual Opening Over Ten Years (2015- 2025)	Rank
51-4041	Machinists	11	107	125
51-4010	Computer-Controlled Machine Tool Operators, Metal and Plastic	6	61	204
51-3093	Food Cooking Machine Operators and Tenders	6	65	195
51-3092	Food Batchmakers	18	185	82
51-3020	Slaughterers and Meat Packers	6	60	206
51-3020	Meat, Poultry, and Fish Cutters and Trimmers	5	55	221
51-3020	Butchers and Meat Cutters	11	106	127
51-3011	Bakers	6	55	217
51-2090	Assemblers and Fabricators, All Other	7	70	187
51-2090	Team Assemblers	18	180	87
51-1011	First-Line Supervisors of Production and Operating Workers	15	149	98
49-90XX	Installation, Maintenance, and Repair Workers, All Other	6	63	199
49-9098	Helpers--Installation, Maintenance, and Repair Workers	11	107	125
49-9071	Maintenance and Repair Workers, General	47	465	33
49-9060	Medical Equipment Repairers	7	73	180
49-904X	Industrial Machinery Mechanics	32	323	54
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	19	188	80
49-3090	Tire Repairers and Changers	8	84	157
49-3040	Mobile Heavy Equipment Mechanics, Except Engines	8	77	171
49-3040	Farm Equipment Mechanics and Service Technicians	5	51	226
49-3031	Bus and Truck Mechanics and Diesel	18	175	89



US Census PUMS OCCSOC	Occupation	Annual Openings	Projected Annual Opening Over Ten Years (2015- 2025)	Rank
	Engine Specialists			
49-3023	Automotive Service Technicians and Mechanics	36	358	47
49-3021	Automotive Body and Related Repairers	10	104	131
49-2020	Telecommunications Equipment Installers and Repairers, Except Line Installers	8	79	168
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	21	212	69
47-3010	Helpers--Electricians	6	55	217
47-2211	Sheet Metal Workers	10	97	138
47-2150	Plumbers, Pipefitters, and Steamfitters	21	205	73
47-2140	Painters, Construction and Maintenance	37	371	42
47-2111	Electricians	29	288	59
47-207X	Operating Engineers and Other Construction Equipment Operators	10	102	133
47-2061	Construction Laborers	37	365	44
47-2031	Carpenters	33	328	53
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	16	160	97
45-20XX	Farmworkers, Farm, Ranch, and Aquacultural Animals	24	239	65
45-20XX	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	308	3,084	4
45-20XX	Agricultural Equipment Operators	30	302	57
45-2041	Graders and Sorters, Agricultural Products	14	136	104
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	11	109	122
43-9XXX	Office and Administrative Support	11	109	122

US Census PUMS OCCSOC	Occupation	Annual Openings	Projected Annual Opening Over Ten Years (2015- 2025)	Rank
	Workers, All Other			
43-9061	Office Clerks, General	105	1,045	11
43-9041	Insurance Claims and Policy Processing Clerks	6	62	202
43-6010	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	71	706	18
43-6010	Medical Secretaries	29	291	58
43-6010	Executive Secretaries and Executive Administrative Assistants	10	105	130
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	9	89	151
43-5081	Stock Clerks and Order Fillers	113	1,130	10
43-5071	Shipping, Receiving, and Traffic Clerks	33	333	51
43-5061	Production, Planning, and Expediting Clerks	10	98	136
43-5052	Postal Service Mail Carriers	12	124	112
43-5030	Dispatchers, Except Police, Fire, and Ambulance	18	181	85
43-5030	Police, Fire, and Ambulance Dispatchers	7	66	192
43-4171	Receptionists and Information Clerks	47	470	31
43-4XXX	Order Clerks	6	64	197
43-4111	Interviewers, Except Eligibility and Loan	6	60	206
43-4081	Hotel, Motel, and Resort Desk Clerks	13	129	109
43-4071	File Clerks	9	91	148
43-4051	Customer Service Representatives	92	919	13
43-4031	Court, Municipal, and License Clerks	6	58	211
43-3071	Tellers	31	307	56
43-3051	Payroll and Timekeeping Clerks	11	106	127

US Census PUMS OCCSOC	Occupation	Annual Openings	Projected Annual Opening Over Ten Years (2015- 2025)	Rank
43-3031	Bookkeeping, Accounting, and Auditing Clerks	50	501	28
43-3021	Billing and Posting Clerks	33	329	52
43-3011	Bill and Account Collectors	15	146	101
43-1011	First-Line Supervisors of Office and Administrative Support Workers	66	665	20
41-9041	Telemarketers	10	103	132
41-9010	Demonstrators and Product Promoters	24	236	66
41-4010	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	62	616	23
41-4010	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	13	131	108
41-3099	Sales Representatives, Services, All Other	40	396	39
41-3031	Securities, Commodities, and Financial Services Sales Agents	7	75	176
41-3021	Insurance Sales Agents	7	73	180
41-2031	Retail Salespersons	398	3,975	1
41-2022	Parts Salespersons	19	192	79
41-2021	Counter and Rental Clerks	33	335	50
41-2010	Cashiers	312	3,121	3
41-1012	First-Line Supervisors of Non-Retail Sales Workers	8	75	174
41-1011	First-Line Supervisors of Retail Sales Workers	76	755	17
39-9030	Recreation Workers	17	171	93
39-9030	Fitness Trainers and Aerobics Instructors	10	95	141
39-9021	Personal Care Aides	161	1,608	6
39-9011	Childcare Workers	32	317	55

US Census PUMS OCCSOC	Occupation	Annual Openings	Projected Annual Opening Over Ten Years (2015- 2025)	Rank
39-5090	Manicurists and Pedicurists	7	75	176
39-5012	Hairdressers, Hairstylists, and Cosmetologists	11	112	121
39-3090	Amusement and Recreation Attendants	24	245	64
39-3031	Ushers, Lobby Attendants, and Ticket Takers	7	74	178
39-2021	Nonfarm Animal Caretakers	5	52	225
39-1021	First-Line Supervisors of Personal Service Workers	9	86	155
37-3010	Landscaping and Groundskeeping Workers	39	389	40
37-2021	Pest Control Workers	8	75	174
37-2012	Maids and Housekeeping Cleaners	36	363	46
37-1012	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	96	956	12
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	9	88	154
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	57	567	25
35-9021	Dishwashers	39	387	41
35-90XX	Dining Room and Cafeteria Attendants and Bartender Helpers	19	195	76
35-3041	Food Servers, Nonrestaurant	9	93	144
35-3031	Waiters and Waitresses	122	1,219	9
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	40	405	37
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	326	3,255	2
35-3011	Bartenders	15	147	100
35-2021	Food Preparation Workers	35	354	48

US Census PUMS OCCSOC	Occupation	Annual Openings	Projected Annual Opening Over Ten Years (2015- 2025)	Rank
35-2010	Cooks, Restaurant	47	474	30
35-2010	Cooks, Institution and Cafeteria	11	109	122
35-2010	Cooks, Fast Food	57	567	25
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	63	631	22
33-909X	Protective Service Workers, All Other	18	179	88
33-9091	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	6	55	217
33-9030	Security Guards	21	207	71
33-3050	Police and Sheriff's Patrol Officers	26	264	61
33-3010	Correctional Officers and Jailers	13	125	110
33-2011	Firefighters	11	114	119
31-909X	Healthcare Support Workers, All Other	6	59	209
31-9097	Phlebotomists	8	81	163
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	7	73	180
31-9092	Medical Equipment Preparers	8	80	164
31-9092	Medical Assistants	43	428	34
31-9091	Dental Assistants	18	184	84
31-1010	Nursing Assistants	82	823	15
31-1010	Home Health Aides	52	524	27
29-2090	Health Technologists and Technicians, All Other	9	92	146
29-2081	Opticians, Dispensing	8	82	161
29-2071	Medical Records and Health Information Technicians	11	115	118
29-2061	Licensed Practical and Licensed Vocational Nurses	40	400	38

US Census PUMS OCCSOC	Occupation	Annual Openings	Projected Annual Opening Over Ten Years (2015- 2025)	Rank
29-2050	Veterinary Technologists and Technicians	6	62	202
29-2050	Surgical Technologists	6	61	204
29-2050	Pharmacy Technicians	19	195	76
29-2041	Emergency Medical Technicians and Paramedics	16	162	95
29-2030	Radiologic Technologists	6	59	209
29-2021	Dental Hygienists	10	96	139
29-2010	Medical and Clinical Laboratory Technicians	6	63	199
29-11XX	Medical and Clinical Laboratory Technologists	6	60	206
29-11XX	Nurse Practitioners	7	66	192
29-1141	Registered Nurses	145	1,453	8
29-1131	Veterinarians	10	98	136
29-1123	Physical Therapists	9	93	144
29-1071	Physician Assistants	7	68	189
29-1060	Physicians and Surgeons, All Other	6	58	211
29-1060	Family and General Practitioners	7	70	187
29-1051	Pharmacists	20	202	74
29-1020	Dentists, General	6	58	211
27-3090	Interpreters and Translators	5	50	228
27-2020	Coaches and Scouts	12	122	113
27-1020	Merchandise Displayers and Window Trimmers	8	77	171
27-1020	Graphic Designers	5	55	221
25-90XX	Education, Training, and Library Workers, All Other	7	67	190
25-9041	Teacher Assistants	59	593	24
25-90XX	Instructional Coordinators	7	74	178

US Census PUMS OCCSOC	Occupation	Annual Openings	Projected Annual Opening Over Ten Years (2015- 2025)	Rank
25-4031	Library Technicians	11	106	127
25-3000	Teachers and Instructors, All Other	10	100	134
25-3000	Substitute Teachers	36	365	45
25-3000	Self-Enrichment Education Teachers	7	73	180
25-2030	Secondary School Teachers, Except Special and Career/Technical Education	37	369	43
25-2020	Middle School Teachers, Except Special and Career/Technical Education	19	185	81
25-2020	Elementary School Teachers, Except Special Education	67	665	19
25-2010	Kindergarten Teachers, Except Special Education	12	116	117
25-2010	Preschool Teachers, Except Special Education	17	174	92
25-1000	Postsecondary Teachers	47	469	32
23-2011	Paralegals and Legal Assistants	19	194	78
23-10XX	Lawyers	9	90	150
21-109X	Community and Social Service Specialists, All Other	12	118	114
21-1093	Social and Human Service Assistants	41	411	36
21-1020	Social Workers, All Other	8	79	168
21-1020	Mental Health and Substance Abuse Social Workers	6	64	197
21-1020	Healthcare Social Workers	12	118	114
21-1020	Child, Family, and School Social Workers	11	114	119
21-1010	Rehabilitation Counselors	8	80	164
21-1010	Mental Health Counselors	9	94	143
21-1010	Educational, Guidance, School, and Vocational Counselors	8	84	157

US Census PUMS OCCSOC	Occupation	Annual Openings	Projected Annual Opening Over Ten Years (2015- 2025)	Rank
21-1010	Substance Abuse and Behavioral Disorder Counselors	6	65	195
19-3030	Clinical, Counseling, and School Psychologists	8	82	161
15-1150	Computer User Support Specialists	13	134	106
15-1142	Network and Computer Systems Administrators	9	91	148
15-113X	Software Developers, Applications	12	118	114
15-1131	Computer Programmers	6	63	199
15-1121	Computer Systems Analysts	10	96	139
13-2082	Tax Preparers	7	72	184
13-2011	Accountants and Auditors	77	766	16
13-1199	Business Operations Specialists, All Other	18	185	82
13-1161	Market Research Analysts and Marketing Specialists	15	146	101
13-1151	Training and Development Specialists	8	78	170
13-1111	Management Analysts	15	148	99
13-1070	Human Resources Specialists	13	134	106
13-1051	Cost Estimators	17	175	91
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	6	57	215
13-1022	Wholesale and Retail Buyers, Except Farm Products	6	58	211
11-9XXX	Managers, All Other	8	84	157
11-9151	Social and Community Service Managers	8	80	164
11-9141	Property, Real Estate, and Community Association Managers	8	84	157
11-9111	Medical and Health Services Managers	21	207	71



US Census PUMS OCCSOC	Occupation	Annual Openings	Projected Annual Opening Over Ten Years (2015- 2025)	Rank
11-9051	Food Service Managers	9	86	155
11-9030	Education Administrators, Postsecondary	6	57	215
11-9030	Education Administrators, Elementary and Secondary School	9	92	146
11-9021	Construction Managers	10	95	141
11-9013	Farmers, Ranchers, and Other Agricultural Managers	18	181	85
11-3071	Transportation, Storage, and Distribution Managers	7	65	194
11-3051	Industrial Production Managers	5	53	224
11-3031	Financial Managers	20	197	75
11-3021	Computer and Information Systems Managers	5	51	226
11-3011	Administrative Services Managers	9	89	151
11-2020	Sales Managers	17	171	93
11-1021	General and Operations Managers	86	860	14
11-10XX	Chief Executives	8	77	171
Source: Applied Development Economics, based on EMSI and US Census ACS Public Use Microdata 2012-2014 from iPUMS				

**Appendix Table 24 - Unemployed Labor Force-to-Job Openings Skills Match: Stanislaus County**

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Unemployed in Target Occupations	Unemployed Whose Credentials Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College- OUT	04 Some College- Attending	05 AA	06 BA or up
		<b>6,536</b>		<b>26,854</b>	<b>15,125</b>	<b>6,830</b>	<b>9,481</b>	<b>5,569</b>	<b>1,517</b>	<b>1,371</b>	<b>2,087</b>
53-7081	Refuse and Recyclable Material Collectors	8	Less than high school	0	0	0	0	0	0	0	0

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Unemployed in Target Occupations	Unemployed Whose Credentials Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College-OUT	04 Some College-Attending	05 AA	06 BA or up
53-7064	Packers and Packagers, Hand	48	Less than high school	451	<b>427</b>	195	232	0	24	0	0
53-7063	Machine Feeders and Offbearers	5	Less than high school	34	<b>34</b>	0	34	0	0	0	0
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	162	Less than high school	1,378	<b>1,032</b>	165	867	286	60	0	0
53-7061	Cleaners of Vehicles and Equipment	26	Less than high school	267	<b>241</b>	99	142	25	0	0	0
53-7051	Industrial Truck and Tractor Operators	41	Less than high school	683	<b>453</b>	107	347	137	0	67	26
53-6031	Automotive and Watercraft Service Attendants	7	Less than high school	28	<b>28</b>	28	0	0	0	0	0
53-3041	Taxi Drivers and Chauffeurs	10	Less than high school	21	<b>0</b>	0	0	21	0	0	0
53-3030	Driver/Sales Workers	211	High school diploma or equivalent	888	<b>642</b>	150	428	214	0	18	78
53-3020	Bus Drivers, Transit and Intercity	49	High school diploma or equivalent	163	<b>137</b>	0	0	137	25	0	0
53-1000	Aircraft Cargo Handling Supervisors	27	High school diploma or equivalent	0	<b>0</b>	0	0	0	0	0	0
51-91XX	Semiconductor Processors	16	Associate's degree	270	<b>0</b>	135	109	26	0	0	0
51-9198	Helpers--Production Workers	18	Less than high school	18	<b>18</b>	18	0	0	0	0	0
51-9196	Paper Goods Machine Setters, Operators, and Tenders	14	High school diploma or equivalent	0	<b>0</b>	0	0	0	0	0	0
51-9111	Packaging and Filling Machine Operators and Tenders	64	High school diploma or equivalent	252	<b>74</b>	159	74	0	0	0	19
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	22	High school diploma or equivalent	329	<b>197</b>	111	123	74	0	21	0

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Unemployed in Target Occupations	Unemployed Whose Credentials Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College-OUT	04 Some College-Attending	05 AA	06 BA or up
51-9020	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	7	High school diploma or equivalent	28	28	0	28	0	0	0	0
51-9010	Chemical Equipment Operators and Tenders	23	High school diploma or equivalent	0	0	0	0	0	0	0	0
51-8031	Water and Wastewater Treatment Plant and System Operators	7	High school diploma or equivalent	0	0	0	0	0	0	0	0
51-6011	Laundry and Dry-Cleaning Workers	6	Less than high school	23	0	0	0	23	0	0	0
51-4120	Welders, Cutters, Solderers, and Brazers	9	High school diploma or equivalent	133	109	23	109	0	0	0	0
51-4041	Machinists	11	High school diploma or equivalent	0	0	0	0	0	0	0	0
51-4010	Computer-Controlled Machine Tool Operators, Metal and Plastic	6	High school diploma or equivalent	0	0	0	0	0	0	0	0
51-3093	Food Cooking Machine Operators and Tenders	6	High school diploma or equivalent	0	0	0	0	0	0	0	0
51-3092	Food Batchmakers	18	High school diploma or equivalent	140	83	0	83	0	0	0	57
51-3020	Butchers and Meat Cutters	22	Less than high school	24	24	0	24	0	0	0	0
51-3011	Bakers	6	Less than high school	22	22	22	0	0	0	0	0
51-2090	Fiberglass Laminators and Fabricators	25	High school diploma or equivalent	382	197	110	133	64	27	47	0
51-1011	First-Line Supervisors of Production and Operating Workers	15	Postsecondary non-degree award	116	0	61	6	0	0	0	49

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Unemployed in Target Occupations	Unemployed Whose Credentials Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College-OUT	04 Some College-Attending	05 AA	06 BA or up
49-90XX	Wind Turbine Service Technicians	6	Some college, no degree	67	0	0	67	0	0	0	0
49-9098	Helpers--Installation, Maintenance, and Repair Workers	11	High school diploma or equivalent	0	0	0	0	0	0	0	0
49-9071	Maintenance and Repair Workers, General	47	High school diploma or equivalent	376	57	186	25	32	0	0	133
49-9060	Camera and Photographic Equipment Repairers	7	Associate's degree	0	0	0	0	0	0	0	0
49-904X	Industrial Machinery Mechanics	32	High school diploma or equivalent	0	0	0	0	0	0	0	0
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	19	Postsecondary non-degree award	86	0	0	86	0	0	0	0
49-3090	Bicycle Repairers	8	High school diploma or equivalent	0	0	0	0	0	0	0	0
49-3040	Farm Equipment Mechanics and Service Technicians	13	High school diploma or equivalent	7	7	0	7	0	0	0	0
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	18	High school diploma or equivalent	105	105	0	105	0	0	0	0
49-3023	Automotive Service Technicians and Mechanics	36	High school diploma or equivalent	130	111	20	80	30	0	0	0
49-3021	Automotive Body and Related Repairers	10	High school diploma or equivalent	0	0	0	0	0	0	0	0
49-2020	Radio, Cellular, and Tower Equipment Installers and Repairs	8	Associate's degree	56	0	56	0	0	0	0	0
49-1011	First-Line Supervisors of Mechanics,	21	High school diploma or equivalent	48	21	0	21	0	0	27	0

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Unemployed in Target Occupations	Unemployed Whose Credentials Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College-OUT	04 Some College-Attending	05 AA	06 BA or up
	Installers, and Repairers										
47-3010	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	6	Less than high school	0	0	0	0	0	0	0	0
47-2211	Sheet Metal Workers	10	High school diploma or equivalent	41	41	0	41	0	0	0	0
47-2150	Pipelayers	21	Less than high school	113	113	0	113	0	0	0	0
47-2140	Painters, Construction and Maintenance	37	Less than high school	232	232	131	101	0	0	0	0
47-2111	Electricians	29	High school diploma or equivalent	102	51	32	0	51	0	0	20
47-207X	Pile-Driver Operators	10	High school diploma or equivalent	31	31	0	31	0	0	0	0
47-2061	Construction Laborers	37	Less than high school	1,036	533	281	252	240	151	53	58
47-2031	Carpenters	33	High school diploma or equivalent	328	182	118	111	71	28	0	0
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	16	High school diploma or equivalent	121	80	41	22	58	0	0	0
45-20XX	Animal Breeders	362	High school diploma or equivalent	2,359	663	1,663	504	159	0	33	0
45-2041	Graders and Sorters, Agricultural Products	14	Less than high school	1,623	1,474	1,022	453	123	26	0	0
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	11	High school diploma or equivalent	64	0	64	0	0	0	0	0
43-9XXX	Office and Administrative Support Workers, All Other	11	High school diploma or equivalent	59	59	0	0	59	0	0	0
43-9061	Office Clerks, General	105	High school diploma or equivalent	455	263	0	148	115	21	34	137

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Unemployed in Target Occupations	Unemployed Whose Credentials Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College-OUT	04 Some College-Attending	05 AA	06 BA or up
43-9041	Insurance Claims and Policy Processing Clerks	6	High school diploma or equivalent	0	0	0	0	0	0	0	0
43-6010	Executive Secretaries and Executive Administrative Assistants	110	High school diploma or equivalent	505	410	23	239	170	19	53	0
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	9	High school diploma or equivalent	152	113	39	0	113	0	0	0
43-5081	Stock Clerks and Order Fillers	113	Less than high school	445	165	43	122	132	147	0	0
43-5071	Shipping, Receiving, and Traffic Clerks	33	High school diploma or equivalent	0	0	0	0	0	0	0	0
43-5061	Production, Planning, and Expediting Clerks	10	High school diploma or equivalent	114	0	0	0	0	84	30	0
43-5052	Postal Service Mail Carriers	12	High school diploma or equivalent	0	0	0	0	0	0	0	0
43-5030	Police, Fire, and Ambulance Dispatchers	25	High school diploma or equivalent	67	67	0	43	25	0	0	0
43-4XXX	Order Clerks	6	High school diploma or equivalent	0	0	0	0	0	0	0	0
43-4171	Receptionists and Information Clerks	47	High school diploma or equivalent	193	120	30	18	102	0	43	0
43-4111	Interviewers, Except Eligibility and Loan	6	High school diploma or equivalent	192	66	0	66	0	0	0	125
43-4081	Hotel, Motel, and Resort Desk Clerks	13	High school diploma or equivalent	0	0	0	0	0	0	0	0
43-4071	Correspondence Clerks	9	High school diploma or equivalent	36	22	15	22	0	0	0	0
43-4051	Customer Service Representatives	92	High school diploma or equivalent	783	430	144	287	144	30	140	39
43-4031	Court, Municipal, and License Clerks	6	High school diploma or equivalent	0	0	0	0	0	0	0	0

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Unemployed in Target Occupations	Unemployed Whose Credentials Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College-OUT	04 Some College-Attending	05 AA	06 BA or up
43-3071	Tellers	31	High school diploma or equivalent	101	101	0	0	101	0	0	0
43-3051	Payroll and Timekeeping Clerks	11	High school diploma or equivalent	0	0	0	0	0	0	0	0
43-3031	Bookkeeping, Accounting, and Auditing Clerks	50	High school diploma or equivalent	30	30	0	17	13	0	0	0
43-3021	Billing and Posting Clerks	33	High school diploma or equivalent	199	132	0	51	81	23	44	0
43-3011	Bill and Account Collectors	15	High school diploma or equivalent	52	52	0	17	35	0	0	0
43-1011	First-Line Supervisors of Office and Administrative Support Workers	66	High school diploma or equivalent	77	0	0	0	0	0	77	0
41-9041	Telemarketers	10	Less than high school	117	50	0	50	67	0	0	0
41-9010	Demonstrators and Product Promoters	24	High school diploma or equivalent	160	55	105	55	0	0	0	0
41-4010	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	75	Bachelor's degree	348	85	0	151	55	0	56	85
41-3099	Sales Representatives, Services, All Other	40	High school diploma or equivalent	18	18	0	18	0	0	0	0
41-3031	Securities, Commodities, and Financial Services Sales Agents	7	Bachelor's degree	0	0	0	0	0	0	0	0
41-3021	Insurance Sales Agents	7	High school diploma or equivalent	42	20	0	0	20	0	0	21
41-2031	Retail Salespersons	398	Less than high school	1,009	488	175	313	409	32	52	29
41-2022	Parts Salespersons	19	Less than high school	0	0	0	0	0	0	0	0
41-2021	Counter and Rental Clerks	33	Less than high school	29	29	0	29	0	0	0	0

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Unemployed in Target Occupations	Unemployed Whose Credentials Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College- OUT	04 Some College- Attending	05 AA	06 BA or up
41-2010	Cashiers	312	Less than high school	1,533	595	63	532	428	362	22	125
41-1012	First-Line Supervisors of Non-Retail Sales Workers	8	High school diploma or equivalent	0	0	0	0	0	0	0	0
41-1011	First-Line Supervisors of Retail Sales Workers	76	High school diploma or equivalent	458	342	73	189	153	0	43	0
39-9030	Fitness Trainers and Aerobics Instructors	27	High school diploma or equivalent	49	49	0	40	8	0	0	0
39-9021	Personal Care Aides	161	Less than high school	257	215	21	194	21	0	21	0
39-9011	Childcare Workers	32	High school diploma or equivalent	300	191	51	191	0	58	0	0
39-5090	Makeup Artists, Theatrical and Performance	7	Postsecondary non- degree award	27	0	0	0	0	0	27	0
39-5012	Hairdressers, Hairstylists, and Cosmetologists	11	Postsecondary non- degree award	200	32	0	168	32	0	0	0
39-3090	Amusement and Recreation Attendants	24	Less than high school	0	0	0	0	0	0	0	0
39-3031	Ushers, Lobby Attendants, and Ticket Takers	7	Less than high school	0	0	0	0	0	0	0	0
39-2021	Nonfarm Animal Caretakers	5	Less than high school	0	0	0	0	0	0	0	0
39-1021	First-Line Supervisors of Personal Service Workers	9	High school diploma or equivalent	75	0	0	0	0	21	55	0
37-3010	Landscaping and Groundskeeping Workers	39	Less than high school	590	485	269	216	80	26	0	0
37-2021	Pest Control Workers	8	High school diploma or equivalent	47	47	0	0	47	0	0	0
37-2012	Maids and	36	Less than high school	241	216	148	68	0	0	0	25



OCCSOC	Occupation	Annual Openings	Required Education for Openings	Unemployed in Target Occupations	Unemployed Whose Credentials Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College-OUT	04 Some College-Attending	05 AA	06 BA or up
	Housekeeping Cleaners										
37-1012	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	96	Less than high school	0	0	0	0	0	0	0	0
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	9	High school diploma or equivalent	0	0	0	0	0	0	0	0
35-90XX	Dining Room and Cafeteria Attendants and Bartender Helpers	19	Less than high school	69	16	16	0	53	0	0	0
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	57	Less than high school	93	0	0	0	93	0	0	0
35-9021	Dishwashers	39	Less than high school	144	144	0	144	0	0	0	0
35-3041	Food Servers, Nonrestaurant	9	Less than high school	11	0	0	0	0	0	0	11
35-3031	Waiters and Waitresses	122	Less than high school	333	249	133	116	84	0	0	0
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	40	Less than high school	108	108	0	108	0	0	0	0
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	326	Less than high school	59	59	0	59	0	0	0	0
35-3011	Bartenders	15	Less than high school	0	0	0	0	0	0	0	0
35-2021	Food Preparation Workers	35	Less than high school	293	71	0	71	80	35	54	53
35-2010	Cooks, Fast Food	115	Less than high school	470	388	150	237	29	0	53	0
35-1012	First-Line Supervisors of Food Preparation	63	High school diploma or equivalent	99	0	99	0	0	0	0	0

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Unemployed in Target Occupations	Unemployed Whose Credentials Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College- OUT	04 Some College- Attending	05 AA	06 BA or up
	and Serving Workers										
33-909X	Protective Service Workers, All Other	18	High school diploma or equivalent	0	0	0	0	0	0	0	0
33-9091	Crossing Guards	6	High school diploma or equivalent	0	0	0	0	0	0	0	0
33-9030	Gaming Surveillance Officers and Gaming Investigators	21	High school diploma or equivalent	160	138	22	106	32	0	0	0
33-3050	Police and Sheriff's Patrol Officers	26	High school diploma or equivalent	68	68	0	0	68	0	0	0
33-3010	Bailiffs	13	High school diploma or equivalent	0	0	0	0	0	0	0	0
33-2011	Firefighters	11	Postsecondary non- degree award	56	56	0	0	56	0	0	0
31-909X	Healthcare Support Workers, All Other	6	High school diploma or equivalent	0	0	0	0	0	0	0	0
31-9097	Phlebotomists	8	Postsecondary non- degree award	0	0	0	0	0	0	0	0
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	7	High school diploma or equivalent	0	0	0	0	0	0	0	0
31-9092	Medical Assistants	51	Postsecondary non- degree award	115	0	0	0	0	33	82	0
31-9091	Dental Assistants	18	Postsecondary non- degree award	0	0	0	0	0	0	0	0
31-1010	Home Health Aides	135	Less than high school	447	243	22	221	105	26	0	73
29-2090	Orthotists and Prosthetists	9	Master's degree	11	11	0	0	0	0	0	11
29-2081	Opticians, Dispensing	8	High school diploma or equivalent	0	0	0	0	0	0	0	0
29-2071	Medical Records and Health Information Technicians	11	Postsecondary non- degree award	0	0	0	0	0	0	0	0
29-2061	Licensed Practical and Licensed Vocational	40	Postsecondary non- degree award	183	183	0	0	183	0	0	0

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Unemployed in Target Occupations	Unemployed Whose Credentials Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College-OUT	04 Some College-Attending	05 AA	06 BA or up
	Nurses										
29-2050	Dietetic Technicians	32	Associate's degree	60	0	60	0	0	0	0	0
29-2041	Emergency Medical Technicians and Paramedics	16	Postsecondary non-degree award	26	19	0	7	19	0	0	0
29-2030	Cardiovascular Technologists and Technicians	6	Associate's degree	0	0	0	0	0	0	0	0
29-2021	Dental Hygienists	10	Associate's degree	0	0	0	0	0	0	0	0
29-2010	Medical and Clinical Laboratory Technicians	6	Associate's degree	21	0	0	0	0	0	0	21
29-11XX	Nurse Midwives	13	Master's degree	0	0	0	0	0	0	0	0
29-1141	Registered Nurses	145	Associate's degree	0	0	0	0	0	0	0	0
29-1131	Veterinarians	10	Doctoral or professional degree	0	0	0	0	0	0	0	0
29-1123	Physical Therapists	9	Doctoral or professional degree	0	0	0	0	0	0	0	0
29-1071	Physician Assistants	7	Master's degree	0	0	0	0	0	0	0	0
29-1060	Anesthesiologists	13	Doctoral or professional degree	0	0	0	0	0	0	0	0
29-1051	Pharmacists	20	Doctoral or professional degree	0	0	0	0	0	0	0	0
29-1020	Dentists, General	6	Doctoral or professional degree	0	0	0	0	0	0	0	0
27-3090	Interpreters and Translators	5	Bachelor's degree	37	0	0	0	24	13	0	0
27-2020	Athletes and Sports Competitors	12	High school diploma or equivalent	0	0	0	0	0	0	0	0
27-1020	Commercial and Industrial Designers	13	Bachelor's degree	71	0	0	0	0	0	71	0
25-90XX	Audio-Visual and Multimedia Collections Specialists	14	Bachelor's degree	0	0	0	0	0	0	0	0

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Unemployed in Target Occupations	Unemployed Whose Credentials Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College-OUT	04 Some College-Attending	05 AA	06 BA or up
25-9041	Teacher Assistants	59	Some college, no degree	220	35	57	45	0	35	38	44
25-4031	Library Technicians	11	Postsecondary non-degree award	0	0	0	0	0	0	0	0
25-3000	Adult Basic and Secondary Education and Literacy Teachers and Instructors	54	Bachelor's degree	156	59	0	40	57	0	0	59
25-2030	Secondary School Teachers, Except Special and Career/Technical Education	37	Bachelor's degree	76	76	0	0	0	0	0	76
25-2020	Elementary School Teachers, Except Special Education	85	Bachelor's degree	238	217	0	21	0	0	0	217
25-2010	Preschool Teachers, Except Special Education	29	Associate's degree	206	27	75	0	39	65	27	0
25-1000	Postsecondary Teachers	47	Doctoral or professional degree	43	43	0	0	0	0	0	43
23-2011	Paralegals and Legal Assistants	19	Associate's degree	55	0	0	35	20	0	0	0
23-10XX	Lawyers	9	Doctoral or professional degree	0	0	0	0	0	0	0	0
21-109X	Health Educators	12	Bachelor's degree	23	23	0	0	0	0	0	23
21-1093	Social and Human Service Assistants	41	High school diploma or equivalent	11	11	0	0	11	0	0	0
21-1020	Child, Family, and School Social Workers	37	Bachelor's degree	0	0	0	0	0	0	0	0
21-1010	Substance Abuse and Behavioral Disorder Counselors	32	High school diploma or equivalent	98	0	0	0	0	0	0	98
19-3030	Clinical, Counseling, and School	8	Doctoral or professional degree	0	0	0	0	0	0	0	0

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Unemployed in Target Occupations	Unemployed Whose Credentials Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College-OUT	04 Some College-Attending	05 AA	06 BA or up
	Psychologists										
15-1150	Computer User Support Specialists	13	Some college, no degree	267	211	0	26	211	0	0	29
15-1142	Network and Computer Systems Administrators	9	Bachelor's degree	0	0	0	0	0	0	0	0
15-113X	Software Developers, Applications	12	Bachelor's degree	35	35	0	0	0	0	0	35
15-1131	Computer Programmers	6	Bachelor's degree	55	0	0	0	55	0	0	0
15-1121	Computer Systems Analysts	10	Bachelor's degree	0	0	0	0	0	0	0	0
13-2082	Tax Preparers	7	High school diploma or equivalent	47	0	0	0	0	0	47	0
13-2011	Accountants and Auditors	77	Bachelor's degree	58	58	0	0	0	0	0	58
13-1199	Business Operations Specialists, All Other	18	High school diploma or equivalent	0	0	0	0	0	0	0	0
13-1161	Market Research Analysts and Marketing Specialists	15	Bachelor's degree	16	0	0	16	0	0	0	0
13-1151	Training and Development Specialists	8	Bachelor's degree	0	0	0	0	0	0	0	0
13-1111	Management Analysts	15	Bachelor's degree	128	0	0	66	0	62	0	0
13-1070	Human Resources Specialists	13	Bachelor's degree	29	29	0	0	0	0	0	29
13-1051	Cost Estimators	17	Bachelor's degree	0	0	0	0	0	0	0	0
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	6	High school diploma or equivalent	0	0	0	0	0	0	0	0
13-1022	Wholesale and Retail Buyers, Except Farm Products	6	High school diploma or equivalent	35	0	0	0	0	0	35	0

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Unemployed in Target Occupations	Unemployed Whose Credentials Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College-OUT	04 Some College-Attending	05 AA	06 BA or up
11-9XXX	Funeral Service Managers	8	Associate's degree	168	0	0	43	57	21	0	47
11-9151	Social and Community Service Managers	8	Bachelor's degree	0	0	0	0	0	0	0	0
11-9141	Property, Real Estate, and Community Association Managers	8	High school diploma or equivalent	47	47	0	7	40	0	0	0
11-9111	Medical and Health Services Managers	21	Bachelor's degree	0	0	0	0	0	0	0	0
11-9051	Food Service Managers	9	High school diploma or equivalent	0	0	0	0	0	0	0	0
11-9030	Education Administrators, Preschool and Childcare Center/Program	15	Bachelor's degree	160	0	0	51	48	61	0	0
11-9021	Construction Managers	10	Bachelor's degree	26	0	0	0	26	0	0	0
11-9013	Farmers, Ranchers, and Other Agricultural Managers	18	High school diploma or equivalent	23	0	0	0	0	0	0	23
11-3071	Transportation, Storage, and Distribution Managers	7	High school diploma or equivalent	0	0	0	0	0	0	0	0
11-3051	Industrial Production Managers	5	Bachelor's degree	0	0	0	0	0	0	0	0
11-3031	Financial Managers	20	Bachelor's degree	62	0	0	62	0	0	0	0
11-3021	Computer and Information Systems Managers	5	Bachelor's degree	47	47	0	0	0	0	0	47
11-3011	Administrative Services Managers	9	Bachelor's degree	0	0	0	0	0	0	0	0
11-2020	Marketing Managers	17	Bachelor's degree	40	40	0	0	0	0	0	40
11-10XX	Chief Executives	8	Bachelor's degree	21	21	0	0	0	0	0	21

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Unemployed in Target Occupations	Unemployed Whose Credentials Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College-OUT	04 Some College-Attending	05 AA	06 BA or up
11-1021	General and Operations Managers	86	Bachelor's degree	0	0	0	0	0	0	0	0

Source: Applied Development Economics, based on US Census ACS Public Use Microdata 2012-2014 from iPUMS and EMSI

**Appendix Table 25 - Part-Time Labor Force-to-Job Openings Skills Match: Stanislaus County**

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Part-Time in Target Occupations	Part-Time LF Whose Credentials Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College-OUT	04 Some College-Attending	05 AA	06 BA or up
		<b>6,536</b>		<b>66,684</b>	<b>34,861</b>	<b>11,390</b>	<b>18,564</b>	<b>14,196</b>	<b>8,186</b>	<b>4,584</b>	<b>9,764</b>
53-7081	Refuse and Recyclable Material Collectors	8	Less than high school	53	53	26	28	0	0	0	0
53-7064	Packers and Packagers, Hand	48	Less than high school	654	427	193	235	202	0	0	25
53-7063	Machine Feeders and Offbearers	5	Less than high school	0	0	0	0	0	0	0	0
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	162	Less than high school	2,065	1,438	240	1,198	269	194	125	39
53-7061	Cleaners of Vehicles and Equipment	26	Less than high school	371	162	67	95	51	158	0	0
53-7051	Industrial Truck and Tractor Operators	41	Less than high school	356	115	90	26	224	0	17	0
53-6031	Automotive and Watercraft Service Attendants	7	Less than high school	85	41	0	41	43	0	0	0
53-3041	Taxi Drivers and Chauffeurs	10	Less than high school	297	0	0	0	176	0	18	103
53-3030	Driver/Sales Workers	211	High school diploma or equivalent	2,690	1,522	682	876	645	337	148	0

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Part-Time in Target Occupations	Part-Time LF Whose Credentials Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College-OUT	04 Some College-Attending	05 AA	06 BA or up
53-3020	Bus Drivers, Transit and Intercity	49	High school diploma or equivalent	210	188	0	175	13	22	0	0
53-1000	Aircraft Cargo Handling Supervisors	27	High school diploma or equivalent	0	0	0	0	0	0	0	0
51-91XX	Semiconductor Processors	16	Associate's degree	829	32	334	352	111	0	32	0
51-9198	Helpers--Production Workers	18	Less than high school	0	0	0	0	0	0	0	0
51-9196	Paper Goods Machine Setters, Operators, and Tenders	14	High school diploma or equivalent	112	112	0	54	58	0	0	0
51-9111	Packaging and Filling Machine Operators and Tenders	64	High school diploma or equivalent	338	129	209	129	0	0	0	0
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	22	High school diploma or equivalent	626	331	107	253	78	74	47	67
51-9020	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	7	High school diploma or equivalent	34	0	34	0	0	0	0	0
51-9010	Chemical Equipment Operators and Tenders	23	High school diploma or equivalent	25	0	0	0	0	0	0	25
51-8031	Water and Wastewater Treatment Plant and System Operators	7	High school diploma or equivalent	0	0	0	0	0	0	0	0
51-6011	Laundry and Dry-Cleaning Workers	6	Less than high school	33	0	0	0	33	0	0	0
51-4120	Welders, Cutters, Solderers, and Brazers	9	High school diploma or equivalent	174	114	60	0	114	0	0	0
51-4041	Machinists	11	High school diploma or equivalent	70	21	50	21	0	0	0	0
51-4010	Computer-Controlled Machine Tool Operators, Metal and Plastic	6	High school diploma or equivalent	0	0	0	0	0	0	0	0



OCCSOC	Occupation	Annual Openings	Required Education for Openings	Part-Time in Target Occupations	Part-Time LF Whose Credentials Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College-OUT	04 Some College-Attending	05 AA	06 BA or up
51-3093	Food Cooking Machine Operators and Tenders	6	High school diploma or equivalent	0	0	0	0	0	0	0	0
51-3092	Food Batchmakers	18	High school diploma or equivalent	42	0	0	0	0	0	0	42
51-3020	Butchers and Meat Cutters	22	Less than high school	71	4	0	4	50	18	0	0
51-3011	Bakers	6	Less than high school	153	82	61	21	71	0	0	0
51-2090	Fiberglass Laminators and Fabricators	25	High school diploma or equivalent	276	177	85	61	116	0	13	0
51-1011	First-Line Supervisors of Production and Operating Workers	15	Postsecondary non-degree award	312	74	78	0	74	0	0	160
49-90XX	Wind Turbine Service Technicians	6	Some college, no degree	285	80	41	164	80	0	0	0
49-9098	Helpers--Installation, Maintenance, and Repair Workers	11	High school diploma or equivalent	0	0	0	0	0	0	0	0
49-9071	Maintenance and Repair Workers, General	47	High school diploma or equivalent	321	264	57	222	41	0	0	0
49-9060	Camera and Photographic Equipment Repairers	7	Associate's degree	0	0	0	0	0	0	0	0
49-904X	Industrial Machinery Mechanics	32	High school diploma or equivalent	146	129	0	18	111	17	0	0
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	19	Postsecondary non-degree award	0	0	0	0	0	0	0	0
49-3090	Bicycle Repairers	8	High school diploma or equivalent	114	56	2	56	0	56	0	0
49-3040	Farm Equipment Mechanics and Service Technicians	13	High school diploma or equivalent	143	114	0	55	59	30	0	0
49-3031	Bus and Truck Mechanics and Diesel Engine	18	High school diploma or equivalent	145	0	56	0	0	0	89	0

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Part-Time in Target Occupations	Part-Time LF Whose Credentials Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College-OUT	04 Some College-Attending	05 AA	06 BA or up
	Specialists										
49-3023	Automotive Service Technicians and Mechanics	36	High school diploma or equivalent	288	<b>241</b>	47	187	53	0	0	0
49-3021	Automotive Body and Related Repairers	10	High school diploma or equivalent	97	<b>97</b>	0	97	0	0	0	0
49-2020	Radio, Cellular, and Tower Equipment Installers and Repairs	8	Associate's degree	62	<b>0</b>	0	18	0	0	0	44
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	21	High school diploma or equivalent	0	<b>0</b>	0	0	0	0	0	0
47-3010	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	6	Less than high school	12	<b>12</b>	0	12	0	0	0	0
47-2211	Sheet Metal Workers	10	High school diploma or equivalent	0	<b>0</b>	0	0	0	0	0	0
47-2150	Pipelayers	21	Less than high school	371	<b>316</b>	95	221	0	0	0	55
47-2140	Painters, Construction and Maintenance	37	Less than high school	324	<b>216</b>	216	0	107	0	0	0
47-2111	Electricians	29	High school diploma or equivalent	152	<b>152</b>	0	79	73	0	0	0
47-207X	Pile-Driver Operators	10	High school diploma or equivalent	17	<b>0</b>	17	0	0	0	0	0
47-2061	Construction Laborers	37	Less than high school	1,579	<b>1,162</b>	350	812	367	37	12	0
47-2031	Carpenters	33	High school diploma or equivalent	592	<b>317</b>	275	25	292	0	0	0
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	16	High school diploma or equivalent	339	<b>217</b>	0	47	170	12	39	72
45-20XX	Animal Breeders	362	High school diploma or equivalent	2,035	<b>516</b>	1,475	364	152	40	0	3
45-2041	Graders and Sorters, Agricultural Products	14	Less than high school	906	<b>855</b>	773	82	51	0	0	0

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Part-Time in Target Occupations	Part-Time LF Whose Credentials Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College-OUT	04 Some College-Attending	05 AA	06 BA or up
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	11	High school diploma or equivalent	36	0	4	0	0	31	0	0
43-9XXX	Office and Administrative Support Workers, All Other	11	High school diploma or equivalent	264	129	0	129	0	110	0	25
43-9061	Office Clerks, General	105	High school diploma or equivalent	704	371	53	253	118	104	116	61
43-9041	Insurance Claims and Policy Processing Clerks	6	High school diploma or equivalent	122	86	36	0	86	0	0	0
43-6010	Executive Secretaries and Executive Administrative Assistants	110	High school diploma or equivalent	1,383	704	5	70	634	139	342	193
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	9	High school diploma or equivalent	0	0	0	0	0	0	0	0
43-5081	Stock Clerks and Order Fillers	113	Less than high school	1,494	1,172	100	1,072	186	94	0	42
43-5071	Shipping, Receiving, and Traffic Clerks	33	High school diploma or equivalent	254	116	21	59	57	46	39	31
43-5061	Production, Planning, and Expediting Clerks	10	High school diploma or equivalent	23	0	0	0	0	0	0	23
43-5052	Postal Service Mail Carriers	12	High school diploma or equivalent	17	17	0	0	17	0	0	0
43-5030	Police, Fire, and Ambulance Dispatchers	25	High school diploma or equivalent	113	90	0	30	59	23	0	0
43-4XXX	Order Clerks	6	High school diploma or equivalent	52	28	0	28	0	0	0	23
43-4171	Receptionists and Information Clerks	47	High school diploma or equivalent	643	378	0	310	68	143	18	104
43-4111	Interviewers, Except Eligibility and Loan	6	High school diploma or equivalent	0	0	0	0	0	0	0	0
43-4081	Hotel, Motel, and Resort Desk Clerks	13	High school diploma or equivalent	38	0	0	0	0	0	0	38
43-4071	Correspondence Clerks	9	High school diploma	200	50	0	50	0	137	14	0

OCCSOC	Occupation	Annual Openings	Required Education for Openings or equivalent	Part-Time in Target Occupations	Part-Time LF Whose Credentials Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College-OUT	04 Some College-Attending	05 AA	06 BA or up
43-4051	Customer Service Representatives	92	High school diploma or equivalent	1,569	855	141	370	484	519	55	0
43-4031	Court, Municipal, and License Clerks	6	High school diploma or equivalent	0	0	0	0	0	0	0	0
43-3071	Tellers	31	High school diploma or equivalent	184	176	0	98	77	0	0	8
43-3051	Payroll and Timekeeping Clerks	11	High school diploma or equivalent	29	0	0	0	0	0	29	0
43-3031	Bookkeeping, Accounting, and Auditing Clerks	50	High school diploma or equivalent	868	647	0	326	321	0	182	39
43-3021	Billing and Posting Clerks	33	High school diploma or equivalent	113	68	45	15	53	0	0	0
43-3011	Bill and Account Collectors	15	High school diploma or equivalent	0	0	0	0	0	0	0	0
43-1011	First-Line Supervisors of Office and Administrative Support Workers	66	High school diploma or equivalent	293	255	0	193	62	0	38	0
41-9041	Telemarketers	10	Less than high school	122	65	0	65	58	0	0	0
41-9010	Demonstrators and Product Promoters	24	High school diploma or equivalent	337	320	17	208	111	0	0	0
41-4010	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	75	Bachelor's degree	363	127	0	155	68	0	14	127
41-3099	Sales Representatives, Services, All Other	40	High school diploma or equivalent	39	39	0	0	39	0	0	0
41-3031	Securities, Commodities, and Financial Services Sales Agents	7	Bachelor's degree	0	0	0	0	0	0	0	0
41-3021	Insurance Sales Agents	7	High school diploma or equivalent	182	108	0	44	64	0	31	44
41-2031	Retail Salespersons	398	Less than high school	3,460	1,135	254	881	1,003	1,049	115	158

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41-2022	Parts Salespersons	19	Less than high school	350	<b>62</b>	62	0	52	236	0	0
41-2021	Counter and Rental Clerks	33	Less than high school	0	<b>0</b>	0	0	0	0	0	0
41-2010	Cashiers	312	Less than high school	3,523	<b>1,683</b>	545	1,138	949	699	150	43
41-1012	First-Line Supervisors of Non-Retail Sales Workers	8	High school diploma or equivalent	281	<b>200</b>	53	158	42	0	0	28
41-1011	First-Line Supervisors of Retail Sales Workers	76	High school diploma or equivalent	565	<b>178</b>	108	55	123	0	108	171
39-9030	Fitness Trainers and Aerobics Instructors	27	High school diploma or equivalent	500	<b>211</b>	0	136	75	192	24	73
39-9021	Personal Care Aides	161	Less than high school	1,582	<b>830</b>	330	499	378	222	86	66
39-9011	Childcare Workers	32	High school diploma or equivalent	1,351	<b>735</b>	217	417	319	261	92	45
39-5090	Makeup Artists, Theatrical and Performance	7	Postsecondary non-degree award	227	<b>0</b>	140	69	0	0	17	0
39-5012	Hairdressers, Hairstylists, and Cosmetologists	11	Postsecondary non-degree award	853	<b>197</b>	33	461	197	0	57	105
39-3090	Amusement and Recreation Attendants	24	Less than high school	153	<b>106</b>	46	60	47	0	0	0
39-3031	Ushers, Lobby Attendants, and Ticket Takers	7	Less than high school	96	<b>31</b>	0	31	0	0	65	0
39-2021	Nonfarm Animal Caretakers	5	Less than high school	79	<b>64</b>	54	10	15	0	0	0
39-1021	First-Line Supervisors of Personal Service Workers	9	High school diploma or equivalent	326	<b>326</b>	0	326	0	0	0	0
37-3010	Landscaping and Groundskeeping Workers	39	Less than high school	1,155	<b>907</b>	737	169	163	38	24	23
37-2021	Pest Control Workers	8	High school diploma or equivalent	0	<b>0</b>	0	0	0	0	0	0
37-2012	Maids and Housekeeping Cleaners	36	Less than high school	1,284	<b>927</b>	610	317	48	254	28	27

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37-1012	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	96	Less than high school	24	24	24	0	0	0	0	0
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	9	High school diploma or equivalent	0	0	0	0	0	0	0	0
35-90XX	Dining Room and Cafeteria Attendants and Bartender Helpers	19	Less than high school	252	107	0	107	145	0	0	0
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	57	Less than high school	327	214	92	122	66	24	24	0
35-9021	Dishwashers	39	Less than high school	165	0	0	0	79	86	0	0
35-3041	Food Servers, Nonrestaurant	9	Less than high school	102	64	0	64	0	0	38	0
35-3031	Waiters and Waitresses	122	Less than high school	1,915	636	95	541	273	807	155	43
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	40	Less than high school	492	206	110	96	24	237	25	0
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	326	Less than high school	424	159	31	128	105	159	0	0
35-3011	Bartenders	15	Less than high school	266	118	0	118	105	43	0	0
35-2021	Food Preparation Workers	35	Less than high school	1,140	665	409	256	177	153	0	145
35-2010	Cooks, Fast Food	115	Less than high school	1,521	922	332	590	340	152	49	58
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	63	High school diploma or equivalent	325	197	0	18	179	62	67	0
33-909X	Protective Service Workers, All Other	18	High school diploma or equivalent	85	0	52	0	0	33	0	0
33-9091	Crossing Guards	6	High school diploma	142	31	0	0	31	111	0	0

OCCSOC	Occupation	Annual Openings	Required Education for Openings or equivalent	Part-Time in Target Occupations	Part-Time LF Whose Credentials Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College-OUT	04 Some College-Attending	05 AA	06 BA or up
33-9030	Gaming Surveillance Officers and Gaming Investigators	21	High school diploma or equivalent	1,061	550	110	246	305	40	98	263
33-3050	Police and Sheriff's Patrol Officers	26	High school diploma or equivalent	112	38	0	17	21	0	0	74
33-3010	Bailiffs	13	High school diploma or equivalent	0	0	0	0	0	0	0	0
33-2011	Firefighters	11	Postsecondary non-degree award	0	0	0	0	0	0	0	0
31-909X	Healthcare Support Workers, All Other	6	High school diploma or equivalent	24	0	0	0	0	0	24	0
31-9097	Phlebotomists	8	Postsecondary non-degree award	59	0	0	52	0	0	7	0
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	7	High school diploma or equivalent	0	0	0	0	0	0	0	0
31-9092	Medical Assistants	51	Postsecondary non-degree award	400	61	36	141	61	33	128	0
31-9091	Dental Assistants	18	Postsecondary non-degree award	265	201	0	50	201	0	14	0
31-1010	Home Health Aides	135	Less than high school	909	386	92	294	281	43	105	94
29-2090	Orthotists and Prosthetists	9	Master's degree	35	0	0	0	0	0	35	0
29-2081	Opticians, Dispensing	8	High school diploma or equivalent	0	0	0	0	0	0	0	0
29-2071	Medical Records and Health Information Technicians	11	Postsecondary non-degree award	64	44	0	0	44	0	0	20
29-2061	Licensed Practical and Licensed Vocational Nurses	40	Postsecondary non-degree award	257	89	0	67	89	49	36	15
29-2050	Dietetic Technicians	32	Associate's degree	389	28	0	148	143	70	28	0
29-2041	Emergency Medical Technicians and	16	Postsecondary non-degree award	126	0	0	95	0	31	0	0

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	Paramedics										
29-2030	Cardiovascular Technologists and Technicians	6	Associate's degree	76	0	0	16	60	0	0	0
29-2021	Dental Hygienists	10	Associate's degree	58	29	0	0	0	0	29	29
29-2010	Medical and Clinical Laboratory Technicians	6	Associate's degree	35	0	0	0	7	0	0	28
29-11XX	Nurse Midwives	13	Master's degree	0	0	0	0	0	0	0	0
29-1141	Registered Nurses	145	Associate's degree	1,189	598	0	0	64	0	598	527
29-1131	Veterinarians	10	Doctoral or professional degree	35	35	0	0	0	0	0	35
29-1123	Physical Therapists	9	Doctoral or professional degree	67	67	0	0	0	0	0	67
29-1071	Physician Assistants	7	Master's degree	39	39	0	0	0	0	0	39
29-1060	Anesthesiologists	13	Doctoral or professional degree	175	175	0	0	0	0	0	175
29-1051	Pharmacists	20	Doctoral or professional degree	32	32	0	0	0	0	0	32
29-1020	Dentists, General	6	Doctoral or professional degree	130	130	0	0	0	0	0	130
27-3090	Interpreters and Translators	5	Bachelor's degree	263	34	0	108	98	22	0	34
27-2020	Athletes and Sports Competitors	12	High school diploma or equivalent	405	42	32	42	0	24	117	189
27-1020	Commercial and Industrial Designers	13	Bachelor's degree	238	20	0	122	0	35	62	20
25-90XX	Audio-Visual and Multimedia Collections Specialists	14	Bachelor's degree	29	0	29	0	0	0	0	0
25-9041	Teacher Assistants	59	Some college, no degree	1,380	447	116	116	406	41	281	421
25-4031	Library Technicians	11	Postsecondary non-degree award	61	27	0	18	27	16	0	0
25-3000	Adult Basic and	54	Bachelor's degree	649	345	0	80	75	100	48	345



OCCSOC	Occupation	Annual Openings	Required Education for Openings	Part-Time in Target Occupations	Part-Time LF Whose Credentials Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College-OUT	04 Some College-Attending	05 AA	06 BA or up
	Secondary Education and Literacy Teachers and Instructors										
25-2030	Secondary School Teachers, Except Special and Career/Technical Education	37	Bachelor's degree	261	176	0	0	0	86	0	176
25-2020	Elementary School Teachers, Except Special Education	85	Bachelor's degree	2,408	2,180	0	0	0	47	181	2,180
25-2010	Preschool Teachers, Except Special Education	29	Associate's degree	211	23	0	0	50	0	23	138
25-1000	Postsecondary Teachers	47	Doctoral or professional degree	574	484	0	90	0	0	0	484
23-2011	Paralegals and Legal Assistants	19	Associate's degree	0	0	0	0	0	0	0	0
23-10XX	Lawyers	9	Doctoral or professional degree	157	157	0	0	0	0	0	157
21-109X	Health Educators	12	Bachelor's degree	64	29	0	0	0	35	0	29
21-1093	Social and Human Service Assistants	41	High school diploma or equivalent	84	0	0	0	0	0	0	84
21-1020	Child, Family, and School Social Workers	37	Bachelor's degree	210	119	0	0	49	41	0	119
21-1010	Substance Abuse and Behavioral Disorder Counselors	32	High school diploma or equivalent	113	27	0	27	0	0	0	86
19-3030	Clinical, Counseling, and School Psychologists	8	Doctoral or professional degree	17	17	0	0	0	0	0	17
15-1150	Computer User Support Specialists	13	Some college, no degree	70	29	0	0	0	29	0	41
15-1142	Network and Computer Systems Administrators	9	Bachelor's degree	11	0	0	0	11	0	0	0
15-113X	Software Developers, Applications	12	Bachelor's degree	42	0	0	16	26	0	0	0
15-1131	Computer Programmers	6	Bachelor's degree	60	5	0	46	10	0	0	5

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15-1121	Computer Systems Analysts	10	Bachelor's degree	137	43	53	0	0	0	41	43
13-2082	Tax Preparers	7	High school diploma or equivalent	95	22	0	0	22	0	39	34
13-2011	Accountants and Auditors	77	Bachelor's degree	286	245	0	0	24	17	0	245
13-1199	Business Operations Specialists, All Other	18	High school diploma or equivalent	57	57	0	0	57	0	0	0
13-1161	Market Research Analysts and Marketing Specialists	15	Bachelor's degree	0	0	0	0	0	0	0	0
13-1151	Training and Development Specialists	8	Bachelor's degree	0	0	0	0	0	0	0	0
13-1111	Management Analysts	15	Bachelor's degree	126	63	0	0	5	6	52	63
13-1070	Human Resources Specialists	13	Bachelor's degree	276	34	0	44	198	0	0	34
13-1051	Cost Estimators	17	Bachelor's degree	0	0	0	0	0	0	0	0
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	6	High school diploma or equivalent	51	51	0	0	51	0	0	0
13-1022	Wholesale and Retail Buyers, Except Farm Products	6	High school diploma or equivalent	192	167	0	114	53	26	0	0
11-9XXX	Funeral Service Managers	8	Associate's degree	410	17	132	36	150	0	17	75
11-9151	Social and Community Service Managers	8	Bachelor's degree	165	133	0	0	32	0	0	133
11-9141	Property, Real Estate, and Community Association Managers	8	High school diploma or equivalent	185	85	42	50	34	0	0	59
11-9111	Medical and Health Services Managers	21	Bachelor's degree	46	20	0	0	0	0	25	20
11-9051	Food Service Managers	9	High school diploma or equivalent	365	130	36	130	0	118	0	81
11-9030	Education	15	Bachelor's degree	272	111	0	0	54	86	22	111

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	Administrators, Preschool and Childcare Center/Program										
11-9021	Construction Managers	10	Bachelor's degree	62	0	30	0	21	0	11	0
11-9013	Farmers, Ranchers, and Other Agricultural Managers	18	High school diploma or equivalent	243	92	125	50	42	0	23	3
11-3071	Transportation, Storage, and Distribution Managers	7	High school diploma or equivalent	0	0	0	0	0	0	0	0
11-3051	Industrial Production Managers	5	Bachelor's degree	0	0	0	0	0	0	0	0
11-3031	Financial Managers	20	Bachelor's degree	40	0	0	0	40	0	0	0
11-3021	Computer and Information Systems Managers	5	Bachelor's degree	0	0	0	0	0	0	0	0
11-3011	Administrative Services Managers	9	Bachelor's degree	0	0	0	0	0	0	0	0
11-2020	Marketing Managers	17	Bachelor's degree	320	297	0	23	0	0	0	297
11-10XX	Chief Executives	8	Bachelor's degree	31	0	0	0	0	31	0	0
11-1021	General and Operations Managers	86	Bachelor's degree	269	133	81	51	4	0	0	133

Source: Applied Development Economics, based on US Census ACS Public Use Microdata 2012-2014 from iPUMS and EMSI