



Puerto Rico

Long-Term Industry & Occupational Projections

2012-2022



PUERTO RICO LONG TERM INDUSTRY PROJECTIONS

EXPLANATION OF INDUSTRY TABLES

2012-2022

Industry		Projected Employment		Change (2012-2022)	
NAICS Code	NAICS Title	Employment 2012	Employment 2022	Employment	Percent
Industry code according to the North American Industry Classification System (NAICS) Title and Coding Structure	Industry title according to the North American Industry Classification System (NAICS) Title and Coding Structure	An estimate of the number of jobs in a industry in 2012	The projected number of jobs expected to be in an industry in 2022	Total number of jobs an industry is expected to gain or lose over the 2012 to 2022 period	Percent change in the number of jobs in an industry over the 2012 to 2022 period

PUERTO RICO LONG TERM INDUSTRY PROJECTIONS

INDUSTRY EMPLOYMENT PROJECTIONS

2012-2022

Industry		Employment	Projected	Change (2012-2022)	
NAICS Code	NAICS Title	2012	Employment 2022	Employment	Percent
Total Employment, All Jobs		1,062,747	1,172,131	109,384	10.29
Goods-Producing Industries		127,743	117,070	-10,673	-8.36
<i>Agriculture, Forestry, Fishing and Hunting</i>		<i>11,266</i>	<i>14,696</i>	<i>3,430</i>	<i>30.45</i>
<i>Mining, Quarrying, and Oil and Gas Extraction</i>		<i>780</i>	<i>803</i>	<i>23</i>	<i>2.95</i>
Construction		35,620	32,123	-3,497	-9.82
236000	Construction of Buildings	18,090	15,523	-2,567	-14.19
237000	Heavy and Civil Engineering Construction	5,535	4,648	-887	-16.03
238000	Specialty Trade Contractors	11,995	11,952	-43	-0.36
Manufacturing		80,077	69,448	-10,629	-13.27
311000	Food Manufacturing	11,456	11,223	-233	-2.03
312000	Beverage and Tobacco Product Manufacturing	2,344	2,030	-314	-13.40
313000/314000	Textile Mills & Textile Product Mills	312	201	-111	-35.58
315000	Apparel Manufacturing	8,674	5,487	-3,187	-36.74
316000	Leather and Allied Product Manufacturing	748	460	-288	-38.50
321000	Wood Product Manufacturing	316	347	31	9.81
322000	Paper Manufacturing	1,316	1,148	-168	-12.77
323000	Printing and Related Support Activities	1,759	1,894	135	7.67
324000	Petroleum and Coal Products Manufacturing	790	596	-194	-24.56
325000	Chemical Manufacturing	17,957	15,904	-2,053	-11.43
326000	Plastics and Rubber Products Manufacturing	1,602	1,121	-481	-30.02
327000	Nonmetallic Mineral Product Manufacturing	2,075	2,057	-18	-0.87
331000	Primary Metal Manufacturing	563	498	-65	-11.55
332000	Fabricated Metal Product Manufacturing	3,610	3,379	-231	-6.40
333000	Machinery Manufacturing	2,222	2,384	162	7.29
334000	Computer and Electronic Product Manufacturing	5,019	3,737	-1,282	-25.54
335000	Electrical Equipment, Appliance, and Component Manufacturing	5,124	4,396	-728	-14.21
336000	Transportation Equipment Manufacturing	1,190	1,037	-153	-12.86
337000	Furniture and Related Product Manufacturing	1,284	1,224	-60	-4.67
339000	Miscellaneous Manufacturing	11,716	10,325	-1,391	-11.87

Source: Puerto Rico Department of Labor and Human Resources as part of the Projections Managing Partnership (PMP) - July 2014.

PUERTO RICO LONG TERM INDUSTRY PROJECTIONS

INDUSTRY EMPLOYMENT PROJECTIONS

2012-2022

Industry		Employment	Projected	Change (2012-2022)	
NAICS Code	NAICS Title	2012	Employment 2022	Employment	Percent
Service-Providing Industries		809,417	912,455	103,038	12.73
<i>Trade, Transportation and Utilities</i>		<i>176,731</i>	<i>207,062</i>	<i>30,331</i>	<i>17.16</i>
<i>Wholesale Trade</i>		<i>32,824</i>	<i>38,631</i>	<i>5,807</i>	<i>17.69</i>
423000	Merchant Wholesalers, Durable Goods	12,153	12,590	437	3.60
424000	Merchant Wholesalers, Nondurable Goods	19,700	25,218	5,518	28.01
425000	Wholesale Electronic Markets and Agents and Brokers	971	823	-148	-15.24
<i>Retail Trade</i>		<i>129,297</i>	<i>153,390</i>	<i>24,093</i>	<i>18.63</i>
441000	Motor Vehicle and Parts Dealers	12,478	16,431	3,953	31.68
442000	Furniture and Home Furnishings Stores	2,612	2,271	-341	-13.06
443000	Electronics and Appliance Stores	3,669	4,403	734	20.01
444000	Building Material and Garden Equipment and Supplies Dealers	8,646	8,372	-274	-3.17
445000	Food and Beverage Stores	26,652	28,116	1,464	5.49
446000	Health and Personal Care Stores	17,531	25,150	7,619	43.46
447000	Gasoline Stations	4,938	5,002	64	1.30
448000	Clothing and Clothing Accessories Stores	19,600	21,599	1,999	10.20
451000	Sporting Goods, Hobby, Book, and Music Stores	2,109	1,851	-258	-12.23
452000	General Merchandise Stores	24,744	33,036	8,292	33.51
453000	Miscellaneous Store Retailers	5,179	6,024	845	16.32
454000	Nonstore Retailers	1,139	1,135	-4	-0.35
<i>Transportation and Warehousing</i>		<i>14,258</i>	<i>14,593</i>	<i>335</i>	<i>2.35</i>
481000	Air Transportation	1,948	1,726	-222	-11.40
483000	Water Transportation	553	484	-69	-12.48
484000	Truck Transportation	3,014	3,213	199	6.60
485000	Transit and Ground Passenger Transport	2,254	3,365	1,111	49.29
487000	Scenic and Sightseeing Transportation	170	169	-1	-0.59
488000	Support Activities for Transportation	3,407	2,798	-609	-17.87
492000	Couriers and Messengers	1,195	1,198	3	0.25
493000	Warehousing and Storage	1,717	1,640	-77	-4.48
<i>221000</i>	<i>Utilities</i>	<i>352</i>	<i>448</i>	<i>96</i>	<i>27.27</i>

Source: Puerto Rico Department of Labor and Human Resources as part of the Projections Managing Partnership (PMP) - July 2014.

PUERTO RICO LONG TERM INDUSTRY PROJECTIONS

INDUSTRY EMPLOYMENT PROJECTIONS

2012-2022

Industry		Employment	Projected	Change (2012-2022)	
NAICS Code	NAICS Title	2012	Employment 2022	Employment	Percent
Information		18,995	24,444	5,449	28.69
511000	Publishing Industries	2,670	2,688	18	0.67
512000	Motion Picture and Sound Recording Industries	2,561	3,833	1,272	49.67
515000	Broadcasting (except Internet)	1,881	1,917	36	1.91
517000	Telecommunications	9,820	12,946	3,126	31.83
518000	Internet Service Providers, Web Search Portals, and Data Processing Services	1,931	2,849	918	47.54
519000	Other Information Services	132	211	79	59.85
Financial Activities		44,696	51,440	6,744	15.09
Finance and Insurance		31,795	34,994	3,199	10.06
522000	Credit Intermediation and Related Activities	16,983	17,794	811	4.78
523000	Securities, Commodity Contracts, and Other	1,127	1,666	539	47.83
524000/525000	Insurance Carriers and Related Activities & Funds, Trust, and Other Financial Vehicles	13,685	15,534	1,849	13.51
Real Estate and Rental and Leasing		12,901	16,446	3,545	27.48
531000	Real Estate	9,421	12,371	2,950	31.31
532000/533000	Rental and Leasing Services & Lessors of Nonfinancial Intangible Assets	3,480	4,075	595	17.10
Professional and Business Services		111,211	134,303	23,092	20.76
541000	Professional, Scientific, and Technical Services	28,074	35,898	7,824	27.87
551000	Management of Companies and Enterprises	10,385	9,531	-854	-8.22
561000	Administrative and Support Services	68,744	83,369	14,625	21.27
562000	Waste Management and Remediation Service	4,008	5,505	1,497	37.35
Education and Health Services		188,225	218,593	30,368	16.13
611000	Educational Services (Public and Private)	106,641	107,762	1,121	1.05
Health Care and Social Assistance		81,584	110,831	29,247	35.85
621000	Ambulatory Health Care Services	33,638	42,962	9,324	27.72
622000	Hospitals (Public and Private)	31,466	42,705	11,239	35.72
623000	Nursing and Residential Care Facilities	5,550	7,818	2,268	40.86
624000	Social Assistance	10,930	17,346	6,416	58.70

PUERTO RICO LONG TERM INDUSTRY PROJECTIONS
INDUSTRY EMPLOYMENT PROJECTIONS
2012-2022

Industry		Employment	Projected	Change (2012-2022)	
NAICS Code	NAICS Title	2012	Employment 2022	Employment	Percent
<i>Leisure and hospitality</i>		<i>74,749</i>	<i>89,051</i>	<i>14,302</i>	<i>19.13</i>
<i>Arts, Entertainment, and Recreation</i>		<i>3,104</i>	<i>3,550</i>	<i>446</i>	<i>14.37</i>
711000	Performing Arts, Spectator Sports, and Related Industries	995	1,074	79	7.94
712000	Museums, Historical Sites, and Similar Institution	309	421	112	36.25
713000	Amusement, Gambling, and Recreation Industries	1,800	2,055	255	14.17
<i>Accommodation and Food Services</i>		<i>71,645</i>	<i>85,501</i>	<i>13,856</i>	<i>19.34</i>
721000	Accommodation	13,753	16,985	3,232	23.50
722000	Food Services and Drinking Places	57,892	68,516	10,624	18.35
<i>Other Services (Except Government)</i>		<i>14,985</i>	<i>15,566</i>	<i>581</i>	<i>3.88</i>
811000	Repair and Maintenance	4,713	5,021	308	6.54
812000	Personal and Laundry Services	5,185	5,832	647	12.48
813000	Membership Associations and Organizations	3,710	3,315	-395	-10.65
814000	Private Households	1,377	1,398	21	1.53
<i>Government</i>		<i>179,825</i>	<i>171,996</i>	<i>-7,829</i>	<i>-4.35</i>
910000	Total Federal Government Employment	14,364	14,438	74	0.52
920000	State, Excluding Education and Hospitals	104,669	91,779	-12,890	-12.32
930000	Local, Excluding Education and Hospitals	60,792	65,779	4,987	8.20
Total Self-Employed not-incorporated		125,587	142,606	17,019	13.55

PUERTO RICO LONG TERM INDUSTRY PROJECTIONS

JOBS BY MAJOR GROUP INDUSTRY

2012-2022

NAICS Title	Employment 2012	Projected Employment 2022	Change (2012-2022)	
			Employment	Percent
Total Employment, All Jobs	1,062,747	1,172,131	109,384	10.29
Good-Producing Industries	127,743	117,070	-10,673	-8.36
Agriculture, Forestry, Fishing and Hunting	11,266	14,696	3,430	30.45
Mining, Quarrying, and Oil and Gas Extraction	780	803	23	2.95
Construction	35,620	32,123	-3,497	-9.82
Manufacturing	80,077	69,448	-10,629	-13.27
Service-Providing Industries	809,417	912,455	103,038	12.73
Trade, Transportation and Utilities	176,731	207,062	30,331	17.16
Information	18,995	24,444	5,449	28.69
Financial Activities	44,696	51,440	6,744	15.09
Professional and Business Services	111,211	134,303	23,092	20.76
Education and Health Service	188,225	218,593	30,368	16.13
Leisure and Hospitality	74,749	89,051	14,302	19.13
Other Services (Except Government)	14,985	15,566	581	3.88
Government	179,825	171,996	-7,829	-4.35
Total Self-Employed Not-Incorporated	125,587	142,606	17,019	13.55

PUERTO RICO LONG TERM INDUSTRY PROJECTIONS

TOP 20 INDUSTRIES GAINING THE MOST NEW JOBS

2012-2022

Rank	NAICS Code	Industry NAICS Title	Projected			
			Employment 2012	Employment 2022	Change (2012-2022)	
					Employment	Percent
1	561000	Administrative and Support Services	68,744	83,369	14,625	21.27
2	622000	Hospitals	31,466	42,705	11,239	35.72
3	722000	Food Services and Drinking Places	57,892	68,516	10,624	18.35
4	621000	Ambulatory Health Care Services	33,638	42,962	9,324	27.72
5	452000	General Merchandise Stores	24,744	33,036	8,292	33.51
6	541000	Professional, Scientific, and Technical Services	28,074	35,898	7,824	27.87
7	446000	Health and Personal Care Stores	17,531	25,150	7,619	43.46
8	624000	Social Assistance	10,930	17,346	6,416	58.70
9	424000	Merchant Wholesalers, Nondurable Goods	19,700	25,218	5,518	28.01
10	930000	Local Government, Excluding Education and Hospitals	60,792	65,779	4,987	8.20
11	441000	Motor Vehicle and Parts Dealers	12,478	16,431	3,953	31.68
12	111000	Crop Production	8,254	11,755	3,501	42.42
13	721000	Accommodation, including Hotels and Motels	13,753	16,985	3,232	23.50
14	517000	Telecommunications	9,820	12,946	3,126	31.83
15	531000	Real Estate	9,421	12,371	2,950	31.31
16	623000	Nursing and Residential Care Facilities	5,550	7,818	2,268	40.86
17	448000	Clothing and Clothing Accessories Stores	19,600	21,599	1,999	10.20
18	524000/ 525000	Insurance Carriers and Related Activities & Funds, Trust, and Other Financial Vehicles	13,653	15,511	1,858	13.61
19	562000	Waste Management and Remediation Service	4,008	5,505	1,497	37.35
20	445000	Food and Beverage Stores	26,652	28,116	1,464	5.49

PUERTO RICO LONG TERM INDUSTRY PROJECTIONS

TOP 20 FASTEST-GROWING INDUSTRIES

2012-2022

Rank	NAICS Code	Industry* NAICS Title	Employment		Change (2012-2022)	
			2012	Projected 2022	Employment	Percent
1	624000	Social Assistance	10,930	17,346	6,416	58.70
2	512000	Motion Picture and Sound Recording Industries	2,561	3,833	1,272	49.67
3	485000	Transit and Ground Passenger Transportation	2,254	3,365	1,111	49.29
4	523000	Securities, Commodity Contracts, and Other Financial Investments and Related Activities	1,127	1,666	539	47.83
5	518000	Data Processing, Hosting and Related Services	1,931	2,849	918	47.54
6	446000	Health and Personal Care Stores	17,531	25,150	7,619	43.46
7	111000	Crop Production	8,254	11,755	3,501	42.42
8	623000	Nursing and Residential Care Facilities	5,550	7,818	2,268	40.86
9	562000	Waste Management and Remediation Service	4,008	5,505	1,497	37.35
10	622000	Hospitals	31,466	42,705	11,239	35.72
11	452000	General Merchandise Stores	24,744	33,036	8,292	33.51
12	517000	Telecommunications	9,820	12,946	3,126	31.83
13	441000	Motor Vehicle and Parts Dealers	12,478	16,431	3,953	31.68
14	531000	Real Estate	9,421	12,371	2,950	31.31
15	424000	Merchant Wholesalers, Nondurable Goods	19,700	25,218	5,518	28.01
16	541000	Professional, Scientific, and Technical Services	28,074	35,898	7,824	27.87
17	621000	Ambulatory Health Care Services	33,638	42,962	9,324	27.72
18	721000	Accommodation, including Hotels and Motels	13,753	16,985	3,232	23.50
19	561000	Administrative and Support Services	68,744	83,369	14,625	21.27
20	443000	Electronics and Appliance Stores	3,669	4,403	734	20.01

*Industries with a minimum of 1,000 jobs in 2012.

PUERTO RICO LONG TERM INDUSTRY PROJECTIONS

TOP 20 DECLINING INDUSTRIES BY NET GROWTH

2012-2022

Rank	NAICS Code	Industry NAICS Title	Employment		Change (2012-2022)	
			2012	Projected 2022	Employment	Percent
1	920000	State Government, Excluding Education and Hospitals	104,669	91,779	-12,890	-12.32
2	315000	Apparel Manufacturing	8,674	5,487	-3,187	-36.74
3	236000	Construction of Buildings	18,090	15,523	-2,567	-14.19
4	325000	Chemical Manufacturing	17,957	15,904	-2,053	-11.43
5	339000	Miscellaneous Manufacturing	11,716	10,325	-1,391	-11.87
6	334000	Computer and Electronic Product Manufacturing	5,019	3,737	-1,282	-25.54
7	237000	Heavy and Civil Engineering Construction	5,535	4,648	-887	-16.03
8	551000	Management of Companies and Enterprises	10,385	9,531	-854	-8.22
9	335000	Electrical Equipment, Appliance, and Component Manufacturing	5,124	4,396	-728	-14.21
10	488000	Support Activities for Transportation	3,407	2,798	-609	-17.87
11	326000	Plastics and Rubber Products Manufacturing	1,602	1,121	-481	-30.02
12	813000	Religious, Grantmaking, Civic, Professional, and Similar Organizations	3,710	3,315	-395	-10.65
13	442000	Furniture and Home Furnishings Stores	2,612	2,271	-341	-13.06
14	491100	Postal Service	2,543	2,218	-325	-12.78
15	312000	Beverage and Tobacco Product Manufacturing	2,344	2,030	-314	-13.40
16	316000	Leather and Allied Product Manufacturing	748	460	-288	-38.50
17	444000	Building Material and Garden Equipment and Supplies Dealers	8,646	8,372	-274	-3.17
18	451000	Sporting Goods, Hobby, Book, and Music Stores	2,109	1,851	-258	-12.23
19	311000	Food Manufacturing	11,456	11,223	-233	-2.03
20	332000	Fabricated Metal Product Manufacturing	3,610	3,379	-231	-6.40

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

EXPLANATION OF OCCUPATIONAL TABLES

2012-2022

Occupation		2022				Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$) 2013 Percentile		
SOC Code	Soc Title	2012 Employment	Projected Employment	Change (2012-2022)		Due to Growth	Due to Replacement	Total				10%	50%	90%
				Numeric	Percent									
The occupational code based on the Standard Occupational Classification (SOC) Coding and Title Structure	The occupational title based on the Standard Occupational Classification (SOC) Coding and Title Structure	An estimated of the number of jobs in an occupation in 2012	The projected number of jobs expected to be in an occupation in 2022	Total number of jobs an occupation is expected to gain or lose over the 2012 to 2022 period	Percent change in the number of jobs in an occupation over the 2012 to 2022 period	Average number of job openings expected to be created by industry expansion during the projection period due to employment growth	Average number of job openings expected to be created during the projection period due to the need to replace worker who leave the occupation	Average number of job openings expected to be created during the projection period due to employment growth and replacements	This category best describes the typical level of education that most workers need to enter the occupation	This category capture work experience that is commonly considered necessary by employers, or is a commonly accepted substitute for other, more formal types of training or education	This category encompasses any additional training or preparation that is typically needed, once employed in an occupation, to attain competency in the skills needed in that occupation	At the 10th percentile, ten percent of workers employed in that occupation earn less and 90 percent earn more than the estimated wage value	At the 50 percentile (also referred to as the median), 50 percent earn more than the estimated wage value	At the 90th percentile, 90 percent of workers employed in that occupation earn less and 10 percent earn more than the estimated wage value
Estimates developed from PR Occupational Employment Statistics (OES) Wage Survey.														

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

Definitions for the Education and Training Classification System

2012-2022

Education and Training

The Bureau of Labor Statistics (BLS) education and training classification system consists of three categories of information that BLS analysts have assigned to each detailed occupation in the 2012–22 National Employment Matrix. The categories are: 1) typical education needed for entry, 2) commonly required work experience in a related occupation, and 3) typical on-the-job training needed to obtain competency in the occupation. Each category and its related choice selections are defined below.

Typical education needed for entry. This category best describes the typical level of education that most workers need to enter the occupation. Occupations are assigned one of the following eight education levels:

- (1) Doctoral or professional degree.** Completion of a doctoral degree (Ph.D.) usually requires at least 3 years of full-time academic work beyond a bachelor's degree. Completion of a professional degree usually requires at least 3 years of full-time academic study beyond a bachelor's degree. Examples of occupations for which a professional degree is the typical form of entry-level education include lawyers, physicians and surgeons, and dentists.
- (2) Master's degree.** Completion of this degree usually requires 1 or 2 years of full-time academic study beyond a bachelor's degree. Examples of occupations in this category include statisticians, physician assistants, and educational, guidance, school, and vocational counselors.
- (3) Bachelor's degree.** Completion of this degree generally requires at least 4 years, but not more than 5 years, of full-time academic study beyond high school. Examples of occupations in this category include budget analysts, dietitians and nutritionist, and civil engineers.
- (4) Associate's degree.** Completion of this degree usually requires at least 2 years but not more than 4 years of full-time academic study beyond high school. Examples of occupations in this category include mechanical drafters, respiratory therapists, and dental hygienists.
- (5) Postsecondary non-degree award.** These programs lead to a certificate or other award, but not a degree. The certificate is awarded by the educational institution and is the result of completing formal postsecondary schooling. Certification, issued by a professional organization or certifying body, is not included here. Some postsecondary nondegree award programs last only a few weeks, while others may last 1 to 2 years. Examples of occupations in this category include nursing aides, emergency medical technicians (EMTs) and paramedics, and hairstylists.
- (6) Some college, no degree.** This category signifies the achievement of a high school diploma or equivalent plus the completion of one or more postsecondary courses that did not result in a degree or award. An Example of an occupation in this category are actors.
- (7) High school diploma or equivalent.** This category indicates the completion of high school or an equivalent program resulting in the award of a high school diploma or an equivalent, such as the General Educational Development (GED) credential. Examples of occupations in this category include social and human service assistants, carpenters, and pharmacy technicians.

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

Definitions for the Education and Training Classification System

2012-2022

(8) Less than high school. This category signifies the completion of any level of primary or secondary education that did not result in the award of a high school diploma or equivalent. Examples of occupations in this category include janitors and cleaners, cashiers, and agricultural equipment operators.

Work experience in a related occupation. For some occupations, work experience in a related occupation may be a typical method of entry. The majority of occupations in this category are first-line supervisors of service, sales, and production occupations or managers of all occupations. Although work experience in a related occupation is beneficial for all occupations, this metric capture work experience that is commonly considered necessary by employers, or is a commonly accepted substitute for other, more formal types of training or education. Occupations are assigned one of the following three categories that deal with length of time spent gaining related work experience:

(1) 5 years or more. This is assigned to occupations if 5 or more years of work experience in a related occupation is typically needed for entry. Examples include financial managers and computer and information systems managers.

(2) Less than 5 years. To enter occupations in this category, workers typically need less than 5 years of work experience in a related occupation. Examples include food service managers and database administrators.

(3) None. No work experience in a related occupation is typically needed. Examples are audiologists and actuaries.

Typical on-the-job training needed to attain competency in the occupation. This category encompasses any additional training or preparation that is typically needed, once employed in an occupation, to attain competency in the skills needed in that occupation. Training is occupation-specific rather than job-specific; skills learned can be transferred to another job in the same occupation. Occupations are assigned one of the following six training categories:

(1) Internship/residency. An internship or residency is training that involves preparation in a field such as teaching or medicine, generally under supervision in a professional setting, such as a classroom or hospital. This type of training may occur before one is employed. Completion of an internship or residency program is commonly required for state licensure or certification in fields including medicine, counseling, architecture, and teaching. Examples of occupations in the internship or residency category include physicians and surgeons and marriage and family therapists. This category does not include internships that are suggested for advancement in one's career, such as a marketing internship.

(2) Apprenticeship. An apprenticeship is a formal relationship between a worker and sponsor that consists of a combination of on-the-job training and related occupation-specific technical instruction in which the worker learns the practical and theoretical aspects of an occupation. Apprenticeship programs are sponsored by individual employers, joint employer-and- labor groups, and employer associations. The typical apprenticeship program provides at least 144 hours of occupation- specific technical instruction and 2,000 hours of on-the-job training per year over a 3-to-5 year period. Examples of occupations in the apprenticeship category include electricians and structural iron and steel workers.

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

Definitions for the Education and Training Classification System

2012-2022

(3) Long-term on-the-job training. More than 12 months of on-the-job training or, alternatively, combined work experience and formal classroom instruction, is needed for workers to develop the skills to attain competency. Training is occupation-specific rather than job-specific; therefore, skills learned can be transferred to another job in the same occupation. This on-the-job training category also includes employer-sponsored training programs. Such programs include those offered by fire academies and schools for air traffic controllers. In other occupations—nuclear power reactor operators, for example—trainees take formal courses, often provided at the jobsite, to prepare for the required licensing exams. Also included in the long-term on-the-job training category are occupations in which workers typically need to possess a natural ability or talent—including musicians and singers, athletes, dancers, photographers, and actors—and that ability or talent must be cultivated over several years, sometimes in a nonwork setting. This category excludes apprenticeships. Examples of occupations in the long-term on-the-job training category include opticians, dancers, and automotive service technicians and mechanics.

(4) Moderate-term on-the-job training. More than 1 month and up to 12 months of combined on-the-job experience and informal training is needed for workers to develop the skills needed to attain competency. Training is occupation-specific rather than job-specific; therefore, skills learned can be transferred to another job in the same occupation. This on-the-job training category also includes employer-sponsored training programs. Examples of occupations in the moderate-term on-the-job training category include transit and intercity bus drivers and advertising sales agents.

(5) Short-term on-the-job training. The skills needed for a worker to attain competency in an occupation can be acquired during 1 month or less of on-the-job experience and informal training. Training is occupation-specific rather than job-specific; therefore, skills learned can be transferred to another job in the same occupation. This on-the-job training category also includes employer-sponsored training programs. Examples of occupations in the short-term on-the-job training category include retail salespersons and maids and housekeeping cleaners.

(6) None = There is no additional occupation-specific training or preparation typically required to attain competency in the occupation. Examples of occupations that do not require occupation-specific on-the-job training include geographers and pharmacists.

References:

http://www.bls.gov/emp/ep_education_tech.htm

http://www.bls.gov/emp/ep_definitions_edtrain.pdf

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

EMPLOYMENT OUTLOOK BY MAJOR OCCUPATIONAL GROUP

2012-2022

SOC Code	Occupation SOC Title	2022		Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
		2012 Employment	Projected Employment	Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
												10%	50%	90%
00-0000	Total, All Occupations*	1,062,747	1,172,131	109,384	10.29	124,804	242,993	367,797	NA	NA	NA	\$7.82	\$9.51	\$21.95
	Management, Business & Financial Occupations	120,696	131,768	11,072	9.17	12,707	24,676	37,383						
11-0000	Management Occupations	76,109	82,818	6,709	8.81	8,252	15,343	23,595	NA	NA	NA	\$14.61	\$27.90	\$58.67
13-0000	Business and Financial Operations Occupations	44,587	48,950	4,363	9.79	4,455	9,333	13,788	NA	NA	NA	\$9.06	\$15.48	\$31.62
	Professional & Related Occupations	192,725	216,412	23,687	12.29	24,397	40,987	65,384						
15-0000	Computer and Mathematical Occupations	9,703	11,657	1,954	20.14	1,954	1,722	3,676	NA	NA	NA	\$9.50	\$18.29	\$35.14
17-0000	Architecture and Engineering Occupations	14,617	15,364	747	5.11	1,024	3,398	4,422	NA	NA	NA	\$11.31	\$22.24	\$42.39
19-0000	Life, Physical, and Social Science Occupations	7,948	8,522	574	7.22	597	2,289	2,886	NA	NA	NA	\$10.07	\$18.05	\$36.38
21-0000	Community and Social Service Occupations	17,634	18,872	1,238	7.02	1,332	4,173	5,505	NA	NA	NA	\$8.39	\$12.50	\$19.30
23-0000	Legal Occupations	6,545	7,278	733	11.20	793	1,052	1,845	NA	NA	NA	\$11.55	\$24.79	\$44.78
25-0000	Education, Training, and Library Occupations	75,598	79,367	3,769	4.99	4,012	15,932	19,944	NA	NA	NA	\$8.60	\$14.86	\$22.63
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	10,657	12,277	1,620	15.20	1,633	2,335	3,968	NA	NA	NA	\$8.15	\$12.96	\$28.11
29-0000	Healthcare Practitioners and Technical Occupations	50,023	63,075	13,052	26.09	13,052	10,086	23,138	NA	NA	NA	\$8.32	\$13.65	\$29.60
	Service Occupations	225,532	259,770	34,238	15.18	36,426	57,492	93,918						
31-0000	Healthcare Support Occupations	12,374	16,074	3,700	29.90	3,706	2,383	6,089	NA	NA	NA	\$7.67	\$8.86	\$12.55
33-0000	Protective Service Occupations	63,971	66,530	2,559	4.00	4,736	15,378	20,114	NA	NA	NA	\$7.77	\$9.56	\$17.25
35-0000	Food Preparation and Serving Related Occupations	69,948	81,185	11,237	16.06	11,238	23,582	34,820	NA	NA	NA	\$7.62	\$8.60	\$10.86
37-0000	Building and Grounds Cleaning and Maintenance Occupations	57,644	66,913	9,269	16.08	9,269	11,804	21,073	NA	NA	NA	\$7.62	\$8.59	\$11.20
39-0000	Personal Care and Service Occupations	21,595	29,068	7,473	34.61	7,477	4,345	11,822	NA	NA	NA	\$7.63	\$8.59	\$11.03
41-0000	Sales and Related Occupations	124,135	142,708	18,573	14.96	18,629	38,663	57,292	NA	NA	NA	\$7.73	\$8.88	\$16.38
43-0000	Office and Administrative Support Occupations	173,494	183,478	9,984	5.75	14,583	34,138	48,721	NA	NA	NA	\$7.82	\$9.38	\$17.72
45-0000	Farming, Fishing, and Forestry Occupations	8,629	10,673	2,044	23.69	2,069	2,513	4,582	NA	NA	NA	\$7.58	\$8.73	\$16.90
47-0000	Construction and Extraction Occupations	53,902	56,431	2,529	4.69	3,242	9,100	12,342	NA	NA	NA	\$7.64	\$8.83	\$15.15
49-0000	Installation, Maintenance, and Repair Occupations	33,399	36,911	3,512	10.52	3,732	8,122	11,854	NA	NA	NA	\$7.92	\$11.14	\$21.83
51-0000	Production Occupations	72,684	70,193	-2,491	-3.43	2,545	13,859	16,404	NA	NA	NA	\$7.75	\$9.10	\$16.65
53-0000	Transportation and Material Moving Occupations	57,551	63,787	6,236	10.84	6,474	13,443	19,917	NA	NA	NA	\$7.68	\$8.77	\$14.78

*Total, All Occupations include self-employed not-incorporated.

NA = Not Available

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

TOP 30 OCCUPATIONS GAINING THE MOST NEW JOBS 2012-2022

Rank	SOC Code	Occupation SOC Title	2012 Employment	2022 Projected Employment	Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
					Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
													10%	50%	90%
1	41-2031	Retail Salespersons	45,044	53,055	8,011	17.78	8,011	15,407	23,418	Less than high school	None	Short-term on-the-job training	\$7.67	\$8.67	\$11.34
2	29-1141	Registered Nurses	18,985	24,195	5,210	27.44	5,210	3,681	8,891	Associate's degree	None	None	\$11.82	\$14.73	\$20.97
3	37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	32,788	37,662	4,874	14.87	4,874	6,170	11,044	Less than high school	None	Short-term on-the-job training	\$7.61	\$8.53	\$9.90
4	33-9032	Security Guards	28,652	33,076	4,424	15.44	4,424	4,390	8,814	High school diploma or equivalent	None	Short-term on-the-job training	\$7.57	\$8.44	\$9.33
5	41-2011	Cashiers	29,549	33,482	3,933	13.31	3,933	12,775	16,708	Less than high school	None	Short-term on-the-job training	\$7.65	\$8.50	\$9.36
6	39-9021	Personal Care Aides	6,277	10,073	3,796	60.47	3,796	449	4,245	Less than high school	None	Short-term on-the-job training	\$7.61	\$8.44	\$9.26
7	43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	24,395	27,648	3,253	13.33	3,253	2,936	6,189	High school diploma or equivalent	None	Short-term on-the-job training	\$7.79	\$9.16	\$14.52
8	35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	9,275	11,784	2,509	27.05	2,509	3,541	6,050	Less than high school	None	Short-term on-the-job training	\$7.61	\$8.45	\$9.29
9	37-3011	Landscaping and Groundskeeping Workers	13,568	15,804	2,236	16.48	2,236	3,420	5,656	Less than high school	None	Short-term on-the-job training	\$7.61	\$8.57	\$10.70
10	43-4051	Customer Service Representatives	12,491	14,670	2,179	17.44	2,179	3,399	5,578	High school diploma or equivalent	None	Short-term on-the-job training	\$7.82	\$9.34	\$16.90
11	43-6013	Medical Secretaries	6,460	8,513	2,053	31.78	2,053	777	2,830	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.70	\$8.72	\$12.10
12	41-1011	First-Line Supervisors of Retail Sales Workers	20,087	22,131	2,044	10.18	2,044	4,371	6,415	High school diploma or equivalent	Less than 5 years	None	\$8.28	\$12.04	\$21.51
13	43-1011	First-Line Supervisors of Office and Administrative Support Workers	14,400	16,220	1,820	12.64	1,820	3,417	5,237	High school diploma or equivalent	Less than 5 years	None	\$9.83	\$14.83	\$25.55
14	29-2052	Pharmacy Technicians	3,483	5,128	1,645	47.23	1,645	345	1,990	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.81	\$9.33	\$13.99
15	35-2014	Cooks, Restaurant	6,093	7,712	1,619	26.57	1,619	1,202	2,821	Less than high school	Less than 5 years	Moderate-term on-the-job training	\$7.63	\$8.58	\$10.22
16	35-3031	Waiters and Waitresses	8,840	10,373	1,533	17.34	1,533	4,253	5,786	Less than high school	None	Short-term on-the-job training	\$7.60	\$8.49	\$9.45
17	45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	6,094	7,557	1,463	24.01	1,463	1,849	3,312	Less than high school	None	Short-term on-the-job training	\$7.54	\$8.48	\$11.08
18	39-9011	Childcare Workers	4,406	5,731	1,325	30.07	1,325	1,295	2,620	High school diploma or equivalent	None	Short-term on-the-job training	\$7.59	\$8.44	\$9.28

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

TOP 30 OCCUPATIONS GAINING THE MOST NEW JOBS

2012-2022

Rank	SOC Code	Occupation SOC Title	2012 Employment	2022 Projected Employment	Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
					Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
													10%	50%	90%
19	35-1012	First-Line Supervisors of Food Preparation and Serving Workers	7,132	8,447	1,315	18.44	1,315	2,012	3,327	High school diploma or equivalent	Less than 5 years	None	\$7.86	\$10.54	\$14.46
20	13-2011	Accountants and Auditors	10,415	11,699	1,284	12.33	1,284	3,082	4,366	Bachelor's degree	None	None	\$9.91	\$15.10	\$26.71
21	53-7062	Laborers and Freight, Stock, and Material Movers, Hand	14,492	15,751	1,259	8.69	1,259	4,489	5,748	Less than high school	None	Short-term on-the-job training	\$7.69	\$8.78	\$13.55
22	41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	8,583	9,794	1,211	14.11	1,211	1,673	2,884	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.99	\$11.19	\$27.66
23	43-3031	Bookkeeping, Accounting, and Auditing Clerks	9,250	10,365	1,115	12.05	1,115	850	1,965	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.79	\$9.28	\$15.43
24	43-5081	Stock Clerks and Order Fillers	15,368	16,429	1,061	6.90	1,061	4,643	5,704	Less than high school	None	Short-term on-the-job training	\$7.67	\$8.68	\$11.56
25	47-2031	Carpenters	8,533	9,586	1,053	12.34	1,053	1,051	2,104	High school diploma or equivalent	None	Apprenticeship	\$7.61	\$8.64	\$10.90
26	31-1011	Home Health Aides	2,329	3,369	1,040	44.65	1,040	443	1,483	Less than high school	None	Short-term on-the-job training	\$7.58	\$8.43	\$9.29
27	31-9095	Pharmacy Aides	2,675	3,706	1,031	38.54	1,031	510	1,541	High school diploma or equivalent	None	Short-term on-the-job training	\$7.80	\$9.38	\$11.43
28	35-2011	Cooks, Fast Food	10,105	11,105	1,000	9.90	1,000	1,993	2,993	Less than high school	None	Short-term on-the-job training	\$7.58	\$8.40	\$9.22
29	37-2012	Maids and Housekeeping Cleaners	4,554	5,511	957	21.01	957	903	1,860	Less than high school	None	Short-term on-the-job training	\$7.63	\$8.67	\$10.81
30	25-2021	Elementary School Teachers, Except Special Education	17,966	18,890	924	5.14	924	3,953	4,877	Bachelor's degree	None	Internship/residency	NA	NA	NA

NA = Not Available

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

TOP 50 FASTEST-GROWING OCCUPATIONS

2012-2022

Rank	SOC Code	Occupation* SOC Title	2022		Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
			2012 Employment	Projected Employment	Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
													10%	50%	90%
1	27-3091	Interpreters and Translators	513	865	352	68.62	352	70	422	Bachelor's degree	None	Short-term on-the-job training	\$12.26	\$13.90	\$23.16
2	39-9021	Personal Care Aides	6,277	10,073	3,796	60.47	3,796	449	4,245	Less than high school	None	Short-term on-the-job training	\$7.61	\$8.44	\$9.26
3	29-2032	Diagnostic Medical Sonographers	288	457	169	58.68	169	41	210	Associate's degree	None	None	\$8.37	\$11.90	\$16.39
4	29-2052	Pharmacy Technicians	3,483	5,128	1,645	47.23	1,645	345	1,990	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.81	\$9.33	\$13.99
5	31-1011	Home Health Aides	2,329	3,369	1,040	44.65	1,040	443	1,483	Less than high school	None	Short-term on-the-job training	\$7.58	\$8.43	\$9.29
6	53-3022	Bus Drivers, School or Special Client	1,493	2,141	648	43.40	648	274	922	High school diploma or equivalent	None	Short-term on-the-job training	\$7.62	\$8.50	\$9.43
7	29-2031	Cardiovascular Technologists and Technicians	317	452	135	42.59	135	45	180	Associate's degree	None	None	\$7.88	\$10.58	\$17.31
8	29-2055	Surgical Technologists	803	1,138	335	41.72	335	79	414	Postsecondary non-degree award	None	None	\$7.70	\$8.85	\$13.44
9	39-5094	Skincare Specialists	490	694	204	41.63	204	40	244	Postsecondary non-degree award	None	None	\$7.84	\$10.58	\$20.74
10	29-2054	Respiratory Therapy Technicians	349	488	139	39.83	139	35	174	Associate's degree	None	Moderate-term on-the-job training	\$7.72	\$8.96	\$12.45
11	13-1161	Market Research Analysts and Marketing Specialists	1,850	2,577	727	39.30	727	254	981	Bachelor's degree	None	None	\$8.68	\$15.70	\$37.54
12	31-9095	Pharmacy Aides	2,675	3,706	1,031	38.54	1,031	510	1,541	High school diploma or equivalent	None	Short-term on-the-job training	\$7.80	\$9.38	\$11.43
13	31-2021	Physical Therapist Assistants	484	667	183	37.81	183	107	290	Associate's degree	None	None	\$7.79	\$9.74	\$14.25
14	49-9062	Medical Equipment Repairers	290	398	108	37.24	108	81	189	Associate's degree	None	Moderate-term on-the-job training	\$8.32	\$14.28	\$25.46
15	29-1051	Pharmacists	1,986	2,705	719	36.20	719	474	1,193	Doctoral or professional degree	None	None	\$19.26	\$38.84	\$55.45
16	13-1121	Meeting, Convention, and Event Planners	1,169	1,584	415	35.50	415	160	575	Bachelor's degree	None	None	\$9.54	\$27.63	\$37.14
17	29-1171	Nurse Practitioners	1,262	1,695	433	34.31	433	245	678	Master's degree	None	None	\$7.78	\$9.25	\$13.99
18	21-1022	Healthcare Social Workers	753	1,010	257	34.13	257	159	416	Master's degree	None	None	\$8.39	\$12.86	\$19.84
19	29-2012	Medical and Clinical Laboratory Technicians	647	866	219	33.85	219	170	389	Associate's degree	None	None	\$7.97	\$11.36	\$16.22
20	15-1132	Software Developers, Applications	335	448	113	33.73	113	43	156	Bachelor's degree	None	None	\$13.87	\$22.18	\$35.74

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

TOP 50 FASTEST-GROWING OCCUPATIONS

2012-2022

Rank	Occupation*		2022		Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
	SOC Code	SOC Title	2012 Employment	Projected Employment	Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile	10%	50%
21	21-1094	Community Health Workers	211	282	71	33.65	71	55	126	High school diploma or equivalent	None	Short-term on-the-job training	\$8.03	\$11.89	\$18.34
22	21-1023	Mental Health and Substance Abuse Social Workers	313	418	105	33.55	105	66	171	Bachelor's degree	None	None	\$7.91	\$9.60	\$22.55
23	31-1015	Orderlies	638	846	208	32.60	208	121	329	High school diploma or equivalent	None	Short-term on-the-job training	\$7.62	\$8.62	\$10.99
24	31-9092	Medical Assistants	508	672	164	32.28	164	97	261	Postsecondary non-degree award	None	None	\$8.01	\$11.06	\$25.96
25	31-1014	Nursing Assistants	941	1,242	301	31.99	301	179	480	Postsecondary non-degree award	None	None	\$7.71	\$8.95	\$16.24
26	43-6013	Medical Secretaries	6,460	8,513	2,053	31.78	2,053	777	2,830	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.70	\$8.72	\$12.10
27	39-3031	Ushers, Lobby Attendants, and Ticket Takers	700	922	222	31.71	222	369	591	Less than high school	None	Short-term on-the-job training	\$7.62	\$8.49	\$9.38
28	45-2091	Agricultural Equipment Operators	695	915	220	31.65	220	211	431	Less than high school	None	Short-term on-the-job training	\$7.49	\$8.37	\$9.24
29	29-1126	Respiratory Therapists	548	718	170	31.02	170	79	249	Associate's degree	None	None	\$7.79	\$9.22	\$15.04
30	13-2052	Personal Financial Advisors	340	444	104	30.59	104	55	159	Bachelor's degree	None	None	\$12.43	\$17.77	\$41.65
31	31-9097	Phlebotomists	457	595	138	30.20	138	87	225	Postsecondary non-degree award	None	None	\$7.80	\$9.54	\$13.83
32	39-9011	Childcare Workers	4,406	5,731	1,325	30.07	1,325	1,295	2,620	High school diploma or equivalent	None	Short-term on-the-job training	\$7.59	\$8.44	\$9.28
33	49-3093	Tire Repairers and Changers	1,081	1,401	320	29.60	320	377	697	High school diploma or equivalent	None	Short-term on-the-job training	\$7.69	\$8.60	\$9.65
34	45-2041	Graders and Sorters, Agricultural Products	260	335	75	28.85	75	46	121	Less than high school	None	Short-term on-the-job training	NA	NA	NA
35	29-2071	Medical Records and Health Information Technicians	1,356	1,745	389	28.69	389	358	747	non-degree award	None	None	\$7.80	\$9.19	\$15.30
36	15-1133	Software Developers, Systems Software	488	628	140	28.69	140	63	203	Bachelor's degree	None	None	\$14.03	\$30.92	\$51.68
37	39-3011	Gaming Dealers	485	622	137	28.25	137	84	221	High school diploma or equivalent	None	Short-term on-the-job training	\$7.72	\$9.06	\$11.38
38	29-1123	Physical Therapists	612	783	171	27.94	171	151	322	Doctoral or professional degree	None	None	\$8.25	\$17.57	\$32.44
39	53-7081	Refuse and Recyclable Material Collectors	3,015	3,853	838	27.79	838	626	1,464	Less than high school	None	Short-term on-the-job training	\$7.67	\$8.49	\$9.33

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

TOP 50 FASTEST-GROWING OCCUPATIONS

2012-2022

Rank	SOC Code	Occupation* SOC Title	2022		Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
			2012 Employment	Projected Employment	Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
													10%	50%	90%
40	43-4081	Hotel, Motel, and Resort Desk Clerks	824	1,053	229	27.79	229	390	619	High school diploma or equivalent	None	Short-term on-the-job training	\$7.66	\$8.59	\$10.00
41	29-1141	Registered Nurses	18,985	24,195	5,210	27.44	5210	3681	8891	Associate's degree	None	None	\$11.82	\$14.73	\$20.97
42	13-1111	Management Analysts	1,434	1,827	393	27.41	393	222	615	Bachelor's degree	Less than 5 years	None	\$12.99	\$22.82	\$38.61
43	11-9111	Medical and Health Services Managers	1,132	1,442	310	27.39	310	275	585	Bachelor's degree	None	None	\$17.51	\$28.68	\$57.96
44	29-2081	Opticians, Dispensing	543	691	148	27.26	148	156	304	High school diploma or equivalent	None	Long-term on-the-job training	\$7.78	\$9.75	\$14.43
45	25-1071	Health Specialties Teachers, Postsecondary	1,416	1,800	384	27.12	384	213	597	Doctoral or professional degree	Less than 5 years	None	NA	NA	NA
46	29-2034	Radiologic Technologists	1,211	1,539	328	27.09	328	171	499	Associate's degree	None	None	\$8.14	\$11.23	\$18.96
47	35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	9,275	11,784	2,509	27.05	2509	3541	6050	Less than high school	None	Short-term on-the-job training	\$7.61	\$8.45	\$9.29
48	49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	438	556	118	26.94	118	60	178	Postsecondary non-degree award	None	Moderate-term on-the-job training	\$9.34	\$15.37	\$21.99
49	19-1012	Food Scientists and Technologists	377	478	101	26.79	101	125	226	Bachelor's degree	None	None	\$10.66	\$17.00	\$26.95
50	11-9151	Social and Community Service Managers	434	550	116	26.73	116	89	205	Bachelor's degree	5 years or more	None	\$10.80	\$17.88	\$34.55

NA = Not Available

*This table includes occupations with a minimum of 200 jobs in 2012.

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

TOP 30 MOST OPENINGS OCCUPATIONS

2012-2022

Rank	SOC Code	Occupation SOC Title	2022		Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
			2012 Employment	Projected Employment	Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
													10%	50%	90%
1	41-2031	Retail Salespersons	45,044	53,055	8,011	17.78	8,011	15,407	23,418	Less than high school	None	Short-term on-the-job training	\$7.67	\$8.67	\$11.34
2	41-2011	Cashiers	29,549	33,482	3,933	13.31	3,933	12,775	16,708	Less than high school	None	Short-term on-the-job training	\$7.65	\$8.50	\$9.36
3	37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	32,788	37,662	4,874	14.87	4,874	6,170	11,044	Less than high school	None	Short-term on-the-job training	\$7.61	\$8.53	\$9.90
4	29-1141	Registered Nurses	18,985	24,195	5,210	27.44	5,210	3,681	8,891	Associate's degree	None	None	\$11.82	\$14.73	\$20.97
5	33-9032	Security Guards	28,652	33,076	4,424	15.44	4,424	4,390	8,814	High school diploma or equivalent	None	Short-term on-the-job training	\$7.57	\$8.44	\$9.33
6	41-1011	First-Line Supervisors of Retail Sales Workers	20,087	22,131	2,044	10.18	2,044	4,371	6,415	High school diploma or equivalent	Less than 5 years	None	\$8.28	\$12.04	\$21.51
7	43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	24,395	27,648	3,253	13.33	3,253	2,936	6,189	High school diploma or equivalent	None	Short-term on-the-job training	\$7.79	\$9.16	\$14.52
8	35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	9,275	11,784	2,509	27.05	2,509	3,541	6,050	Less than high school	None	Short-term on-the-job training	\$7.61	\$8.45	\$9.29
9	33-3051	Police and Sheriff's Patrol Officers	18,846	17,780	-1,066	-5.66	0	5,910	5,910	High school diploma or equivalent	None	Moderate-term on-the-job training	\$9.29	\$15.25	\$17.77
10	35-3031	Waiters and Waitresses	8,840	10,373	1,533	17.34	1,533	4,253	5,786	Less than high school	None	Short-term on-the-job training	\$7.60	\$8.49	\$9.45
11	53-7062	Laborers and Freight, Stock, and Material Movers, Hand	14,492	15,751	1,259	8.69	1,259	4,489	5,748	Less than high school	None	Short-term on-the-job training	\$7.69	\$8.78	\$13.55
12	43-5081	Stock Clerks and Order Fillers	15,368	16,429	1,061	6.90	1,061	4,643	5,704	Less than high school	None	Short-term on-the-job training	\$7.67	\$8.68	\$11.56
13	37-3011	Landscaping and Groundskeeping Workers	13,568	15,804	2,236	16.48	2,236	3,420	5,656	Less than high school	None	Short-term on-the-job training	\$7.61	\$8.57	\$10.70
14	43-4051	Customer Service Representatives	12,491	14,670	2,179	17.44	2,179	3,399	5,578	High school diploma or equivalent	None	Short-term on-the-job training	\$7.82	\$9.34	\$16.90
15	43-1011	First-Line Supervisors of Office and Administrative Support Workers	14,400	16,220	1,820	12.64	1,820	3,417	5,237	High school diploma or equivalent	Less than 5 years	None	\$9.83	\$14.83	\$25.55
16	43-9061	Office Clerks, General	23,801	23,655	-146	-0.61	0	5,000	5,000	High school diploma or equivalent	None	Short-term on-the-job training	\$7.73	\$8.96	\$13.85
17	25-2021	Elementary School Teachers, Except Special Education	17,966	18,890	924	5.14	924	3,953	4,877	Bachelor's degree	None	Internship/residency	NA	NA	NA
18	13-2011	Accountants and Auditors	10,415	11,699	1,284	12.33	1,284	3,082	4,366	Bachelor's degree	None	None	\$9.91	\$15.10	\$26.71
19	39-9021	Personal Care Aides	6,277	10,073	3,796	60.47	3,796	449	4,245	Less than high school	None	Short-term on-the-job training	\$7.61	\$8.44	\$9.26
20	47-2061	Construction Laborers	15,538	16,357	819	5.27	819	3,326	4,145	Less than high school	None	Short-term on-the-job training	\$7.57	\$8.47	\$9.46

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

TOP 30 MOST OPENINGS OCCUPATIONS

2012-2022

Rank	SOC Code	Occupation SOC Title	2022		Change (2012-2022)		Openings Due to			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$) 2013 Percentile		
			2012 Employment	Projected Employment	Numeric	Percent	Growth	Replacement	Total				10%	50%	90%
21	35-2021	Food Preparation Workers	11,774	12,058	284	2.41	284	3,375	3,659	Less than high school	None	Short-term on-the-job training	\$7.67	\$8.87	\$11.10
22	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	12,465	12,303	-162	-1.30	0	3,387	3,387	Bachelor's degree	None	Internship/residency	NA	NA	NA
23	35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	4,430	5,090	660	14.90	660	2,701	3,361	Less than high school	None	Short-term on-the-job training	\$7.56	\$8.39	\$9.23
24	35-1012	First-Line Supervisors of Food Preparation and Serving Workers	7,132	8,447	1,315	18.44	1,315	2,012	3,327	High school diploma or equivalent	Less than 5 years	None	\$7.86	\$10.54	\$14.46
25	45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	6,094	7,557	1,463	24.01	1,463	1,849	3,312	Less than high school	None	Short-term on-the-job training	\$7.54	\$8.48	\$11.08
26	35-2011	Cooks, Fast Food	10,105	11,105	1,000	9.90	1,000	1,993	2,993	Less than high school	None	Short-term on-the-job training	\$7.58	\$8.40	\$9.22
27	41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	8,583	9,794	1,211	14.11	1,211	1,673	2,884	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.99	\$11.19	\$27.66
28	43-6013	Medical Secretaries	6,460	8,513	2,053	31.78	2,053	777	2,830	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.70	\$8.72	\$12.10
29	35-2014	Cooks, Restaurant	6,093	7,712	1,619	26.57	1,619	1,202	2,821	Less than high school	Less than 5 years	Moderate-term on-the-job training	\$7.63	\$8.58	\$10.22
30	39-9011	Childcare Workers	4,406	5,731	1,325	30.07	1,325	1,295	2,620	High school diploma or equivalent	None	Short-term on-the-job training	\$7.59	\$8.44	\$9.28

NA = Not Available

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

TOP 20 DECLINING OCCUPATIONS BY NET GROWTH

2012-2022

Rank	SOC Code	Occupation SOC Title	2022		Change (2012-2022)		Average Annual Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
			2012 Employment	Projected Employment	Numeric	Percent	Growth	Replacement	Total				2013 Percentile		
													10%	50%	90%
1	51-6031	Sewing Machine Operators	9,158	7,124	-2,034	-22.21	0	439	439	Less than high school	None	Short-term on-the-job training	\$7.66	\$8.49	\$9.32
2	43-9022	Word Processors and Typists	5,410	3,907	-1,503	-27.78	0	194	194	High school diploma or equivalent	None	Short-term on-the-job training	\$8.33	\$10.90	\$15.87
3	33-3051	Police and Sheriff's Patrol Officers	18,846	17,780	-1,066	-5.66	0	5,910	5,910	High school diploma or equivalent	None	Moderate-term on-the-job training	\$9.29	\$15.25	\$17.77
4	43-6011	Executive Secretaries and Executive Administrative Assistants	9,987	9,161	-826	-8.27	0	1,202	1,202	High school diploma or equivalent	Less than 5 years	None	\$8.55	\$13.30	\$21.88
5	43-9021	Data Entry Keyers	2,976	2,298	-678	-22.78	0	355	355	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.79	\$9.15	\$14.43
6	33-3012	Correctional Officers and Jailers	5,586	5,029	-557	-9.97	0	1,484	1,484	High school diploma or equivalent	None	Moderate-term on-the-job training	\$8.83	\$12.48	\$14.28
7	51-2092	Team Assemblers	6,701	6,192	-509	-7.60	0	1,059	1,059	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.77	\$9.00	\$11.46
8	43-5021	Couriers and Messengers	3,839	3,416	-423	-11.02	0	492	492	High school diploma or equivalent	None	Short-term on-the-job training	\$7.74	\$8.99	\$13.60
9	51-1011	First-Line Supervisors of Production and Operating Workers	4,692	4,402	-290	-6.18	0	660	660	Postsecondary non-degree award	Less than 5 years	None	\$9.07	\$16.19	\$33.21
10	51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	1,369	1,086	-283	-20.67	0	166	166	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.80	\$9.35	\$14.16
11	51-2022	Electrical and Electronic Equipment Assemblers	1,723	1,467	-256	-14.86	0	209	209	High school diploma or equivalent	None	Short-term on-the-job training	\$7.72	\$9.14	\$13.80
12	51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	1,956	1,738	-218	-11.15	0	552	552	High school diploma or equivalent	None	Moderate-term on-the-job training	\$8.08	\$12.39	\$21.01
13	43-6012	Legal Secretaries	4,436	4,235	-201	-4.53	0	534	534	High school diploma or equivalent	None	Moderate-term on-the-job training	\$8.12	\$12.17	\$17.36
14	33-1012	First-Line Supervisors of Police and Detectives	3,224	3,056	-168	-5.21	0	952	952	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$11.44	\$16.64	\$21.37
15	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	12,465	12,303	-162	-1.30	0	3,387	3,387	Bachelor's degree	None	Internship/residency	NA	NA	NA
16	43-2011	Switchboard Operators, Including Answering Service	1,180	1,029	-151	-12.80	0	217	217	High school diploma or equivalent	None	Short-term on-the-job training	\$7.75	\$8.93	\$11.60

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

TOP 20 DECLINING OCCUPATIONS BY NET GROWTH

2012-2022

Rank	SOC Code	Occupation SOC Title	2012 Employment	2022 Projected Employment	Change (2012-2022)		Average Annual Openings Due to			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$) 2013 Percentile		
					Numeric	Percent	Growth	Replacement	Total				10%	50%	90%
17	43-9061	Office Clerks, General	23,801	23,655	-146	-0.61	0	5,000	5,000	High school diploma or equivalent	None	Short-term on-the-job training	\$7.73	\$8.96	\$13.85
18	49-9051	Electrical Power-Line Installers and Repairers	1,326	1,189	-137	-10.33	0	459	459	High school diploma or equivalent	None	Long-term on-the-job training	\$17.51	\$20.42	\$22.48
19	47-2073	Operating Engineers and Other Construction Equipment Operators	2,538	2,415	-123	-4.85	0	564	564	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.77	\$9.68	\$18.24
20	47-3012	Helpers--Carpenters	1,050	927	-123	-11.71	0	164	164	Less than high school	None	Short-term on-the-job training	\$7.57	\$8.39	\$9.21

NA = Not Available

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

TOP 10 OCCUPATIONS/MASTER'S, DOCTORAL OR PROFESSIONAL DEGREE GAINING THE MOST NEW JOBS 2012-2022

Rank	SOC Code	Occupation SOC Title	2012 Employment	2022 Projected Employment	Change (2012-2022)		Openings Due to			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$) 2013 Percentile		
					Numeric	Percent	Growth	Replacement	Total				10%	50%	90%
1	29-1051	Pharmacists	1,986	2,705	719	36.20	719	474	1,193	Doctoral or professional degree	None	None	\$19.26	\$38.84	\$55.45
2	23-1011	Lawyers	4,440	5,042	602	13.56	602	711	1,313	Doctoral or professional degree	None	None	\$15.30	\$26.76	\$48.76
3	29-1171	Nurse Practitioners	1,262	1,695	433	34.31	433	245	678	Master's degree	None	None	\$7.78	\$9.25	\$13.99
4	25-1071	Health Specialties Teachers, Postsecondary	1,416	1,800	384	27.12	384	213	597	Doctoral or professional degree	Less than 5 years	None	NA	NA	NA
5	21-1022	Healthcare Social Workers	753	1,010	257	34.13	257	159	416	Master's degree	None	None	\$8.39	\$12.86	\$19.84
6	25-1072	Nursing Instructors and Teachers, Postsecondary	863	1,092	229	26.54	229	130	359	Master's degree	Less than 5 years	None	NA	NA	NA
7	29-1123	Physical Therapists	612	783	171	27.94	171	151	322	Doctoral or professional degree	None	None	\$8.25	\$17.57	\$32.44
8	25-9031	Instructional Coordinators	1,147	1,272	125	10.90	125	98	223	Master's degree	5 years or more	None	\$9.09	\$14.03	\$22.23
9	11-9033	Education Administrators, Postsecondary	1,395	1,514	119	8.53	119	371	490	Master's degree	5 years or more	None	\$12.54	\$21.50	\$38.35
10	21-1012	Educational, Guidance, School, and Vocational Counselors	1,338	1,446	108	8.07	108	284	392	Master's degree	None	None	\$10.42	\$16.52	\$22.41

NA = Not Available

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

TOP 10 OCCUPATIONS/MASTER'S, DOCTORAL OR PROFESSIONAL DEGREE WITH THE HIGHEST GROWTH RATES

2012-2022

Rank	SOC Code	Occupation* SOC Title	2022		Change (2012-2022)		Due to Growth	Openings Due to Replacement		Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$) 2013 Percentile		
			2012 Employment	Projected Employment	Numeric	Percent		Total	10%				50%	90%	
1	29-1051	Pharmacists	1,986	2,705	719	36.20	719	474	1,193	Doctoral or professional degree	None	None	\$19.26	\$38.84	\$55.45
2	29-1171	Nurse Practitioners	1,262	1,695	433	34.31	433	245	678	Master's degree	None	None	\$7.78	\$9.25	\$13.99
3	21-1022	Healthcare Social Workers	753	1,010	257	34.13	257	159	416	Master's degree	None	None	\$8.39	\$12.86	\$19.84
4	29-1123	Physical Therapists	612	783	171	27.94	171	151	322	Doctoral or professional degree	None	None	\$8.25	\$17.57	\$32.44
5	25-1071	Health Specialties Teachers, Postsecondary	1,416	1,800	384	27.12	384	213	597	Doctoral or professional degree	Less than 5 years	None	NA	NA	NA
6	25-1072	Nursing Instructors and Teachers, Postsecondary	863	1,092	229	26.54	229	130	359	Master's degree	Less than 5 years	None	NA	NA	NA
7	29-1151	Nurse Anesthetists	293	357	64	21.84	64	57	121	Master's degree	None	None	\$17.05	\$26.10	\$35.06
8	29-1122	Occupational Therapists	263	316	53	20.15	53	36	89	Master's degree	None	None	\$8.61	\$15.05	\$34.51
9	21-1015	Rehabilitation Counselors	393	470	77	19.59	77	84	161	Master's degree	None	None	\$10.20	\$13.79	\$19.45
10	15-2041	Statisticians	247	291	44	17.81	44	78	122	Master's degree	None	None	\$10.66	\$14.42	\$22.84

*This table includes occupations with a minimum of 200 jobs in 2012.
NA = Not Available

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

TOP 10 OCCUPATIONS/MASTER'S, DOCTORAL OR PROFESSIONAL DEGREE MOST OPENINGS OCCUPATIONS

2012-2022

Rank	Occupation		2022		Change (2012-2022)		Openings Due to			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
	SOC Code	SOC Title	2012 Employment	Projected Employment	Numeric	Percent	Growth	Replacement	Total				2013 Percentile		
													10%	50%	90%
1	23-1011	Lawyers	4,440	5,042	602	13.56	602	711	1,313	Doctoral or professional degree	None	None	\$15.30	\$26.76	\$48.76
2	29-1051	Pharmacists	1,986	2,705	719	36.20	719	474	1,193	Doctoral or professional degree	None	None	\$19.26	\$38.84	\$55.45
3	29-1171	Nurse Practitioners	1,262	1,695	433	34.31	433	245	678	Master's degree	None	None	\$7.78	\$9.25	\$13.99
4	25-1071	Health Specialties Teachers, Postsecondary	1,416	1,800	384	27.12	384	213	597	Doctoral or professional degree	Less than 5 years	None	ND	ND	ND
5	11-9032	Education Administrators, Elementary and Secondary School	1,873	1,857	-16	-0.85	0	498	498	Master's degree	5 years or more	None	ND	ND	ND
6	11-9033	Education Administrators, Postsecondary	1,395	1,514	119	8.53	119	371	490	Master's degree	5 years or more	None	\$12.54	\$21.50	\$38.35
7	25-4021	Librarians	1,696	1,741	45	2.65	45	382	427	Master's degree	None	None	\$10.16	\$15.96	\$22.73
8	21-1022	Healthcare Social Workers	753	1,010	257	34.13	257	159	416	Master's degree	None	None	\$8.39	\$12.86	\$19.84
9	29-1062	Family and General Practitioners	1,201	1,293	92	7.66	92	301	393	Doctoral or professional degree	None	Internship/residency	\$22.19	\$31.43	\$47.94
10	21-1012	Educational, Guidance, School, and Vocational Counselors	1,338	1,446	108	8.07	108	284	392	Master's degree	None	None	\$10.42	\$16.52	\$22.41

NA = Not Available

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

TOP 10 OCCUPATIONS/BACHELOR'S DEGREE GAINING THE MOST NEW JOBS

2012-2022

Rank	SOC Code	Occupation SOC Title	2012 Employment	2022 Projected Employment	Change (2012-2022)		Openings Due to			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$) 2013 Percentile		
					Numeric	Percent	Growth	Replacement	Total				10%	50%	90%
1	13-2011	Accountants and Auditors	10,415	11,699	1,284	12.33	1,284	3,082	4,366	Bachelor's degree	None	None	\$9.91	\$15.10	\$26.71
2	25-2021	Elementary School Teachers, Except Special Education	17,966	18,890	924	5.14	924	3,953	4,877	Bachelor's degree	None	Internship/residency	NA	NA	NA
3	13-1161	Market Research Analysts and Marketing Specialists	1,850	2,577	727	39.30	727	254	981	Bachelor's degree	None	None	\$8.68	\$15.70	\$37.54
4	11-1021	General and Operations Managers	5,585	6,302	717	12.84	717	1,045	1,762	Bachelor's degree	Less than 5 years	None	\$15.85	\$32.09	\$67.34
5	29-2011	Medical and Clinical Laboratory Technologists	2,323	2,806	483	20.79	483	609	1,092	Bachelor's degree	None	None	\$10.16	\$14.63	\$23.20
6	13-1121	Meeting, Convention, and Event Planners	1,169	1,584	415	35.50	415	160	575	Bachelor's degree	None	None	\$9.54	\$27.63	\$37.14
7	13-1111	Management Analysts	1,434	1,827	393	27.41	393	222	615	Bachelor's degree	Less than 5 years	None	\$12.99	\$22.82	\$38.61
8	11-3031	Financial Managers	3,701	4,068	367	9.92	367	694	1,061	Bachelor's degree	5 years or more	None	\$16.41	\$30.00	\$59.71
9	27-3091	Interpreters and Translators	513	865	352	68.62	352	70	422	Bachelor's degree	None	Short-term on-the-job training	\$12.26	\$13.90	\$23.16
10	11-2022	Sales Managers	1,954	2,288	334	17.09	334	419	753	Bachelor's degree	Less than 5 years	None	\$17.28	\$32.94	\$65.26

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

TOP 10 OCCUPATIONS/BACHELOR'S DEGREE WITH THE HIGHEST GROWTH RATES

2012-2022

Rank	SOC Code	Occupation* SOC Title	2022		Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
			2012 Employment	Projected Employment	Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
													10%	50%	90%
1	27-3091	Interpreters and Translators	513	865	352	68.62	352	70	422	Bachelor's degree	None	Short-term on-the-job training	\$12.26	\$13.90	\$23.16
2	13-1161	Market Research Analysts and Marketing Specialists	1,850	2,577	727	39.30	727	254	981	Bachelor's degree	None	None	\$8.68	\$15.70	\$37.54
3	13-1121	Meeting, Convention, and Event Planners	1,169	1,584	415	35.50	415	160	575	Bachelor's degree	None	None	\$9.54	\$27.63	\$37.14
4	15-1132	Software Developers, Applications	335	448	113	33.73	113	43	156	Bachelor's degree	None	None	\$13.87	\$22.18	\$35.74
5	21-1023	Mental Health and Substance Abuse Social Workers	313	418	105	33.55	105	66	171	Bachelor's degree	None	None	\$7.91	\$9.60	\$22.55
6	13-2052	Personal Financial Advisors	340	444	104	30.59	104	55	159	Bachelor's degree	None	None	\$12.43	\$17.77	\$41.65
7	15-1133	Software Developers, Systems Software	488	628	140	28.69	140	63	203	Bachelor's degree	None	None	\$14.03	\$30.92	\$51.68
8	13-1111	Management Analysts	1,434	1,827	393	27.41	393	222	615	Bachelor's degree	Less than 5 years	None	\$12.99	\$22.82	\$38.61
9	11-9111	Medical and Health Services Managers	1,132	1,442	310	27.39	310	275	585	Bachelor's degree	None	None	\$17.51	\$28.68	\$57.96
10	19-1012	Food Scientists and Technologists	377	478	101	26.79	101	125	226	Bachelor's degree	None	None	\$10.66	\$17.00	\$26.95

*This table includes occupations with a minimum of 200 jobs in 2012.

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

TOP 10 OCCUPATIONS/BACHELOR'S DEGREE MOST OPENINGS

2012-2022

Rank	SOC Code	Occupation SOC Title	2022		Change (2012-2022)		Due to Growth	Openings Due to Replacement		Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
			2012 Employment	Projected Employment	Numeric	Percent		Total	10%				50%	90%	
1	25-2021	Elementary School Teachers, Except Special Education	17,966	18,890	924	5.14	924	3,953	4,877	Bachelor's degree	None	Internship/residency	NA	NA	NA
2	13-2011	Accountants and Auditors	10,415	11,699	1,284	12.33	1,284	3,082	4,366	Bachelor's degree	None	None	\$9.91	\$15.10	\$26.71
3	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	12,465	12,303	-162	-1.30	0	3,387	3,387	Bachelor's degree	None	Internship/residency	NA	NA	NA
4	11-1021	General and Operations Managers	5,585	6,302	717	12.84	717	1,045	1,762	Bachelor's degree	Less than 5 years	None	\$15.85	\$32.09	\$67.34
5	29-2011	Medical and Clinical Laboratory Technologists	2,323	2,806	483	20.79	483	609	1,092	Bachelor's degree	None	None	\$10.16	\$14.63	\$23.20
6	11-3031	Financial Managers	3,701	4,068	367	9.92	367	694	1,061	Bachelor's degree	5 years or more	None	\$16.41	\$30.00	\$59.71
7	13-1161	Market Research Analysts and Marketing Specialists	1,850	2,577	727	39.30	727	254	981	Bachelor's degree	None	None	\$8.68	\$15.70	\$37.54
8	21-1021	Child, Family, and School Social Workers	3,962	4,028	66	1.67	66	839	905	Bachelor's degree	None	None	\$9.99	\$14.81	\$20.77
9	17-2051	Civil Engineers	2,489	2,737	248	9.96	248	605	853	Bachelor's degree	None	None	\$13.77	\$23.39	\$40.41
10	13-1041	Compliance Officers	3,508	3,630	122	3.48	122	648	770	Bachelor's degree	None	Moderate-term on-the-job training	\$9.40	\$18.38	\$37.29

NA = Not Available

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

TOP 10 OCCUPATIONS/ASSOCIATE'S DEGREE OR POSTSECONDARY NON-DEGREE AWARD GAINING THE MOST NEW JOBS

2012-2022

Rank	SOC Code	Occupation SOC Title	2012 Employment	2022 Projected Employment	Change (2012-2022)		Openings Due to			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$) 2013 Percentile		
					Numeric	Percent	Growth	Replacement	Total				10%	50%	90%
1	29-1141	Registered Nurses	18,985	24,195	5,210	27.44	5,210	3,681	8,891	Associate's degree	None	None	\$11.82	\$14.73	\$20.97
2	53-3032	Heavy and Tractor-Trailer Truck Drivers	9,727	10,626	899	9.24	899	1,556	2,455	Postsecondary non-degree award	None	Short-term on-the-job training	\$7.66	\$8.68	\$11.31
3	29-2061	Licensed Practical and Licensed Vocational Nurses	4,255	4,985	730	17.16	730	1,039	1,769	Postsecondary non-degree award	None	None	\$7.81	\$9.37	\$14.43
4	25-2011	Preschool Teachers, Except Special Education	3,550	4,220	670	18.87	670	997	1,667	Associate's degree	None	None	\$8.32	\$10.83	\$15.32
5	39-5012	Hairdressers, Hairstylists, and Cosmetologists	2,056	2,544	488	23.74	488	481	969	Postsecondary non-degree award	None	None	\$7.74	\$9.34	\$14.00
6	31-9091	Dental Assistants	2,354	2,768	414	17.59	414	488	902	Postsecondary non-degree award	None	None	\$7.58	\$8.43	\$9.30
7	29-2071	Medical Records and Health Information Technicians	1,356	1,745	389	28.69	389	358	747	Postsecondary non-degree award	None	None	\$7.80	\$9.19	\$15.30
8	29-2055	Surgical Technologists	803	1,138	335	41.72	335	79	414	Postsecondary non-degree award	None	None	\$7.70	\$8.85	\$13.44
9	29-2034	Radiologic Technologists	1,211	1,539	328	27.09	328	171	499	Associate's degree	None	None	\$8.14	\$11.23	\$18.96
10	31-1014	Nursing Assistants	941	1,242	301	31.99	301	179	480	Postsecondary non-degree award	None	None	\$7.71	\$8.95	\$16.24

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

TOP 10 OCCUPATIONS/ASSOCIATE'S DEGREE OR POSTSECONDARY NON-DEGREE AWARD WITH THE HIGHEST GROWTH RATES

2012-2022

Rank	SOC Code	Occupation* SOC Title	2022		Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
			2012 Employment	Projected Employment	Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
													10%	50%	90%
1	29-2032	Diagnostic Medical Sonographers	288	457	169	58.68	169	41	210	Associate's degree	None	None	\$8.37	\$11.90	\$16.39
2	29-2031	Cardiovascular Technologists and Technicians	317	452	135	42.59	135	45	180	Associate's degree	None	None	\$7.88	\$10.58	\$17.31
3	29-2055	Surgical Technologists	803	1,138	335	41.72	335	79	414	Postsecondary non-degree award	None	None	\$7.70	\$8.85	\$13.44
4	39-5094	Skincare Specialists	490	694	204	41.63	204	40	244	Postsecondary non-degree award	None	None	\$7.84	\$10.58	\$20.74
5	29-2054	Respiratory Therapy Technicians	349	488	139	39.83	139	35	174	Associate's degree	None	Moderate-term on-the-job training	\$7.72	\$8.96	\$12.45
6	31-2021	Physical Therapist Assistants	484	667	183	37.81	183	107	290	Associate's degree	None	None	\$7.79	\$9.74	\$14.25
7	49-9062	Medical Equipment Repairers	290	398	108	37.24	108	81	189	Associate's degree	None	Moderate-term on-the-job training	\$8.32	\$14.28	\$25.46
8	29-2012	Medical and Clinical Laboratory Technicians	647	866	219	33.85	219	170	389	Associate's degree	None	None	\$7.97	\$11.36	\$16.22
9	31-9092	Medical Assistants	508	672	164	32.28	164	97	261	Postsecondary non-degree award	None	None	\$8.01	\$11.06	\$25.96
10	31-1014	Nursing Assistants	941	1,242	301	31.99	301	179	480	Postsecondary non-degree award	None	None	\$7.71	\$8.95	\$16.24

*This table includes occupations with a minimum of 200 jobs in 2012.

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

TOP 10 OCCUPATIONS/ASSOCIATE'S DEGREE OR POSTSECONDARY NON-DEGREE AWARD MOST OPENINGS

2012-2022

Rank	SOC Code	Occupation SOC Title	2022		Change (2012-2022)		Openings Due to			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
			2012 Employment	Projected Employment	Numeric	Percent	Growth	Replacement	Total				2013 Percentile		
													10%	50%	90%
1	29-1141	Registered Nurses	18,985	24,195	5,210	27.44	5,210	3,681	8,891	Associate's degree	None	None	\$11.82	\$14.73	\$20.97
2	53-3032	Heavy and Tractor-Trailer Truck Drivers	9,727	10,626	899	9.24	899	1,556	2,455	Postsecondary non-degree award	None	Short-term on-the-job training	\$7.66	\$8.68	\$11.31
3	29-2061	Licensed Practical and Licensed Vocational Nurses	4,255	4,985	730	17.16	730	1,039	1,769	Postsecondary non-degree award	None	None	\$7.81	\$9.37	\$14.43
4	25-2011	Preschool Teachers, Except Special Education	3,550	4,220	670	18.87	670	997	1,667	Associate's degree	None	None	\$8.32	\$10.83	\$15.32
5	39-5012	Hairdressers, Hairstylists, and Cosmetologists	2,056	2,544	488	23.74	488	481	969	Postsecondary non-degree award	None	None	\$7.74	\$9.34	\$14.00
6	31-9091	Dental Assistants	2,354	2,768	414	17.59	414	488	902	Postsecondary non-degree award	None	None	\$7.58	\$8.43	\$9.30
7	29-2071	Medical Records and Health Information Technicians	1,356	1,745	389	28.69	389	358	747	Postsecondary non-degree award	None	None	\$7.80	\$9.19	\$15.30
8	29-2041	Emergency Medical Technicians and Paramedics	2,015	2,164	149	7.39	149	550	699	Postsecondary non-degree award	None	None	\$7.76	\$9.23	\$13.99
9	51-1011	First-Line Supervisors of Production and Operating Workers	4,692	4,402	-290	-6.18	0	660	660	Postsecondary non-degree award	Less than 5 years	None	\$9.07	\$16.19	\$33.21
10	29-2034	Radiologic Technologists	1,211	1,539	328	27.09	328	171	499	Associate's degree	None	None	\$8.14	\$11.23	\$18.96

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

TOP 10 OCCUPATIONS/REQUIRING A HIGH SCHOOL DIPLOMA OR EQUIVALENT GAINING THE MOST NEW JOBS 2012-2022

Rank	SOC Code	Occupation SOC Title	2012 Employment	2022 Projected Employment	Change (2012-2022)		Openings Due to			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$) 2013 Percentile		
					Numeric	Percent	Growth	Replacement	Total				10%	50%	90%
1	33-9032	Security Guards	28,652	33,076	4,424	15.44	4,424	4,390	8,814	High school diploma or equivalent	None	Short-term on-the-job training	\$7.57	\$8.44	\$9.33
2	43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	24,395	27,648	3,253	13.33	3,253	2,936	6,189	High school diploma or equivalent	None	Short-term on-the-job training	\$7.79	\$9.16	\$14.52
3	43-4051	Customer Service Representatives	12,491	14,670	2,179	17.44	2,179	3,399	5,578	High school diploma or equivalent	None	Short-term on-the-job training	\$7.82	\$9.34	\$16.90
4	43-6013	Medical Secretaries	6,460	8,513	2,053	31.78	2,053	777	2,830	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.70	\$8.72	\$12.10
5	41-1011	First-Line Supervisors of Retail Sales Workers	20,087	22,131	2,044	10.18	2,044	4,371	6,415	High school diploma or equivalent	Less than 5 years	None	\$8.28	\$12.04	\$21.51
6	43-1011	First-Line Supervisors of Office and Administrative Support Workers	14,400	16,220	1,820	12.64	1,820	3,417	5,237	High school diploma or equivalent	Less than 5 years	None	\$9.83	\$14.83	\$25.55
7	29-2052	Pharmacy Technicians	3,483	5,128	1,645	47.23	1,645	345	1,990	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.81	\$9.33	\$13.99
8	39-9011	Childcare Workers	4,406	5,731	1,325	30.07	1,325	1,295	2,620	High school diploma or equivalent	None	Short-term on-the-job training	\$7.59	\$8.44	\$9.28
9	35-1012	First-Line Supervisors of Food Preparation and Serving Workers	7,132	8,447	1,315	18.44	1,315	2,012	3,327	High school diploma or equivalent	Less than 5 years	None	\$7.86	\$10.54	\$14.46
10	41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	8,583	9,794	1,211	14.11	1,211	1,673	2,884	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.99	\$11.19	\$27.66

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

TOP 10 OCCUPATIONS/REQUIRING A HIGH SCHOOL DIPLOMA OR EQUIVALENT WITH THE HIGHEST GROWTH RATES

2012-2022

Rank	SOC Code	Occupation* SOC Title	2022		Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
			2012 Employment	Projected Employment	Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
													10%	50%	90%
1	29-2052	Pharmacy Technicians	3,483	5,128	1,645	47.23	1,645	345	1,990	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.81	\$9.33	\$13.99
2	53-3022	Bus Drivers, School or Special Client	1,493	2,141	648	43.40	648	274	922	High school diploma or equivalent	None	Short-term on-the-job training	\$7.62	\$8.50	\$9.43
3	31-9095	Pharmacy Aides	2,675	3,706	1,031	38.54	1,031	510	1,541	High school diploma or equivalent	None	Short-term on-the-job training	\$7.80	\$9.38	\$11.43
4	21-1094	Community Health Workers	211	282	71	33.65	71	55	126	High school diploma or equivalent	None	Short-term on-the-job training	\$8.03	\$11.89	\$18.34
5	31-1015	Orderlies	638	846	208	32.60	208	121	329	High school diploma or equivalent	None	Short-term on-the-job training	\$7.62	\$8.62	\$10.99
6	43-6013	Medical Secretaries	6,460	8,513	2,053	31.78	2,053	777	2,830	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.70	\$8.72	\$12.10
7	39-9011	Childcare Workers	4,406	5,731	1,325	30.07	1,325	1,295	2,620	High school diploma or equivalent	None	Short-term on-the-job training	\$7.59	\$8.44	\$9.28
8	49-3093	Tire Repairers and Changers	1,081	1,401	320	29.60	320	377	697	High school diploma or equivalent	None	Short-term on-the-job training	\$7.69	\$8.60	\$9.65
9	39-3011	Gaming Dealers	485	622	137	28.25	137	84	221	High school diploma or equivalent	None	Short-term on-the-job training	\$7.72	\$9.06	\$11.38
10	43-4081	Hotel, Motel, and Resort Desk Clerks	824	1,053	229	27.79	229	390	619	High school diploma or equivalent	None	Short-term on-the-job training	\$7.66	\$8.59	\$10.00

*This table includes occupations with a minimum of 200 jobs in 2012.

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

TOP 10 OCCUPATIONS/REQUIRING A HIGH SCHOOL DIPLOMA OR EQUIVALENT MOST OPENINGS OCCUPATIONS

2012-2022

Rank	SOC Code	Occupation SOC Title	2012		2022		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
			2012 Employment	2012 Projected Employment	2022 Change (2012-2022) Numeric	2022 Change (2012-2022) Percent	Growth	Due to Replacement	Total				2013 Percentile		
													10%	50%	90%
1	33-9032	Security Guards	28,652	33,076	4,424	15.44	4,424	4,390	8,814	High school diploma or equivalent	None	Short-term on-the-job training	\$7.57	\$8.44	\$9.33
2	41-1011	First-Line Supervisors of Retail Sales Workers	20,087	22,131	2,044	10.18	2,044	4,371	6,415	High school diploma or equivalent	Less than 5 years	None	\$8.28	\$12.04	\$21.51
3	43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	24,395	27,648	3,253	13.33	3,253	2,936	6,189	High school diploma or equivalent	None	Short-term on-the-job training	\$7.79	\$9.16	\$14.52
4	33-3051	Police and Sheriff's Patrol Officers	18,846	17,780	-1,066	-5.66	0	5,910	5,910	High school diploma or equivalent	None	Moderate-term on-the-job training	\$9.29	\$15.25	\$17.77
5	43-4051	Customer Service Representatives	12,491	14,670	2,179	17.44	2,179	3,399	5,578	High school diploma or equivalent	None	Short-term on-the-job training	\$7.82	\$9.34	\$16.90
6	43-1011	First-Line Supervisors of Office and Administrative Support Workers	14,400	16,220	1,820	12.64	1,820	3,417	5,237	High school diploma or equivalent	Less than 5 years	None	\$9.83	\$14.83	\$25.55
7	43-9061	Office Clerks, General	23,801	23,655	-146	-0.61	0	5,000	5,000	High school diploma or equivalent	None	Short-term on-the-job training	\$7.73	\$8.96	\$13.85
8	35-1012	First-Line Supervisors of Food Preparation and Serving Workers	7,132	8,447	1,315	18.44	1,315	2,012	3,327	High school diploma or equivalent	Less than 5 years	None	\$7.86	\$10.54	\$14.46
9	41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	8,583	9,794	1,211	14.11	1,211	1,673	2,884	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.99	\$11.19	\$27.66
10	43-6013	Medical Secretaries	6,460	8,513	2,053	31.78	2,053	777	2,830	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.70	\$8.72	\$12.10

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

TOP 10 OCCUPATIONS/REQUIRING LESS THAN A HIGH SCHOOL DIPLOMA GAINING THE MOST NEW JOBS

2012-2022

Rank	SOC Code	Occupation SOC Title	2012 Employment	2022 Projected Employment	Change (2012-2022)		Openings Due to			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$) 2013 Percentile		
					Numeric	Percent	Growth	Replacement	Total				10%	50%	90%
1	41-2031	Retail Salespersons	45,044	53,055	8,011	17.78	8,011	15,407	23,418	Less than high school	None	Short-term on-the-job training	\$7.67	\$8.67	\$11.34
2	37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	32,788	37,662	4,874	14.87	4,874	6,170	11,044	Less than high school	None	Short-term on-the-job training	\$7.61	\$8.53	\$9.90
3	41-2011	Cashiers	29,549	33,482	3,933	13.31	3,933	12,775	16,708	Less than high school	None	Short-term on-the-job training	\$7.65	\$8.50	\$9.36
4	39-9021	Personal Care Aides	6,277	10,073	3,796	60.47	3,796	449	4,245	Less than high school	None	Short-term on-the-job training	\$7.61	\$8.44	\$9.26
5	35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	9,275	11,784	2,509	27.05	2,509	3,541	6,050	Less than high school	None	Short-term on-the-job training	\$7.61	\$8.45	\$9.29
6	37-3011	Landscaping and Groundskeeping Workers	13,568	15,804	2,236	16.48	2,236	3,420	5,656	Less than high school	None	Short-term on-the-job training	\$7.61	\$8.57	\$10.70
7	35-2014	Cooks, Restaurant	6,093	7,712	1,619	26.57	1,619	1,202	2,821	Less than high school	Less than 5 years	Moderate-term on-the-job training	\$7.63	\$8.58	\$10.22
8	35-3031	Waiters and Waitresses	8,840	10,373	1,533	17.34	1,533	4,253	5,786	Less than high school	None	Short-term on-the-job training	\$7.60	\$8.49	\$9.45
9	45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	6,094	7,557	1,463	24.01	1,463	1,849	3,312	Less than high school	None	Short-term on-the-job training	\$7.54	\$8.48	\$11.08
10	53-7062	Laborers and Freight, Stock, and Material Movers, Hand	14,492	15,751	1,259	8.69	1,259	4,489	5,748	Less than high school	None	Short-term on-the-job training	\$7.69	\$8.78	\$13.55

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

TOP 10 OCCUPATIONS/REQUIRING LESS THAN A HIGH SCHOOL DIPLOMA WITH THE HIGHEST GROWTH RATES

2012-2022

Rank	SOC Code	Occupation* SOC Title	2022		Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
			2012 Employment	Projected Employment	Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
													10%	50%	90%
1	39-9021	Personal Care Aides	6,277	10,073	3,796	60.47	3,796	449	4,245	Less than high school	None	Short-term on-the-job training	\$7.61	\$8.44	\$9.26
2	31-1011	Home Health Aides	2,329	3,369	1,040	44.65	1,040	443	1,483	Less than high school	None	Short-term on-the-job training	\$7.58	\$8.43	\$9.29
3	39-3031	Ushers, Lobby Attendants, and Ticket Takers	700	922	222	31.71	222	369	591	Less than high school	None	Short-term on-the-job training	\$7.62	\$8.49	\$9.38
4	45-2091	Agricultural Equipment Operators	695	915	220	31.65	220	211	431	Less than high school	None	Short-term on-the-job training	\$7.49	\$8.37	\$9.24
5	45-2041	Graders and Sorters, Agricultural Products	260	335	75	28.85	75	46	121	Less than high school	None	Short-term on-the-job training	NA	NA	NA
6	53-7081	Refuse and Recyclable Material Collectors	3,015	3,853	838	27.79	838	626	1,464	Less than high school	None	Short-term on-the-job training	\$7.67	\$8.49	\$9.33
7	35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	9,275	11,784	2,509	27.05	2,509	3,541	6,050	Less than high school	None	Short-term on-the-job training	\$7.61	\$8.45	\$9.29
8	35-2014	Cooks, Restaurant	6,093	7,712	1,619	26.57	1,619	1,202	2,821	Less than high school	Less than 5 years	Moderate-term on-the-job training	\$7.63	\$8.58	\$10.22
9	41-2022	Parts Salespersons	1,616	2,045	429	26.55	429	409	838	Less than high school	None	Moderate-term on-the-job training	\$7.70	\$8.84	\$14.39
10	45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	6,094	7,557	1,463	24.01	1,463	1,849	3,312	Less than high school	None	Short-term on-the-job training	\$7.54	\$8.48	\$11.08

NA = Not Available

*This table includes occupations with a minimum of 200 jobs in 2012.

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

TOP 10 OCCUPATIONS/REQUIRING LESS THAN A HIGH SCHOOL DIPLOMA MOST OPENINGS OCCUPATIONS

2012-2022

Rank	SOC Code	Occupation SOC Title	2012		2022		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
			Employment	Projected Employment	Change (2012-2022) Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
													10%	50%	90%
1	41-2031	Retail Salespersons	45,044	53,055	8,011	17.78	8,011	15,407	23,418	Less than high school	None	Short-term on-the-job training	\$7.67	\$8.67	\$11.34
2	41-2011	Cashiers	29,549	33,482	3,933	13.31	3,933	12,775	16,708	Less than high school	None	Short-term on-the-job training	\$7.65	\$8.50	\$9.36
3	37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	32,788	37,662	4,874	14.87	4,874	6,170	11,044	Less than high school	None	Short-term on-the-job training	\$7.61	\$8.53	\$9.90
4	35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	9,275	11,784	2,509	27.05	2,509	3,541	6,050	Less than high school	None	Short-term on-the-job training	\$7.61	\$8.45	\$9.29
5	35-3031	Waiters and Waitresses	8,840	10,373	1,533	17.34	1,533	4,253	5,786	Less than high school	None	Short-term on-the-job training	\$7.60	\$8.49	\$9.45
6	53-7062	Laborers and Freight, Stock, and Material Movers, Hand	14,492	15,751	1,259	8.69	1,259	4,489	5,748	Less than high school	None	Short-term on-the-job training	\$7.69	\$8.78	\$13.55
7	43-5081	Stock Clerks and Order Fillers	15,368	16,429	1,061	6.90	1,061	4,643	5,704	Less than high school	None	Short-term on-the-job training	\$7.67	\$8.68	\$11.56
8	37-3011	Landscaping and Groundskeeping Workers	13,568	15,804	2,236	16.48	2,236	3,420	5,656	Less than high school	None	Short-term on-the-job training	\$7.61	\$8.57	\$10.70
9	39-9021	Personal Care Aides	6,277	10,073	3,796	60.47	3,796	449	4,245	Less than high school	None	Short-term on-the-job training	\$7.61	\$8.44	\$9.26
10	47-2061	Construction Laborers	15,538	16,357	819	5.27	819	3,326	4,145	Less than high school	None	Short-term on-the-job training	\$7.57	\$8.47	\$9.46

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

JOBS BY OCUPATION

2012-2022

SOC Code	Occupation* SOC Title	2022		Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
		2012 Employment	Projected Employment	Numeric	Percent	Due to Growth	Replacement	Total				2013 Percentile		
												10%	50%	90%
00-0000	Total, All Occupations**	1,062,747	1,172,131	109,384	10.29	124,804	242,993	367,797	NA	NA	NA	\$7.82	\$9.51	\$21.95
11-0000	Management Occupations	76,109	82,818	6,709	8.81	8,252	15,343	23,595	NA	NA	NA	\$14.61	\$27.90	\$58.67
11-1000	Top Executives	8,730	9,713	983	11.26	992	1,715	2,707	NA	NA	NA	NA	NA	NA
11-1021	General and Operations Managers	5,585	6,302	717	12.84	717	1,045	1,762	Bachelor's degree	Less than 5 years	None	\$15.85	\$32.09	\$67.34
11-2000	Advertising, Marketing, Promotions, Public Relations, and Sales Managers	3,150	3,694	544	17.27	544	696	1,240	NA	NA	NA	NA	NA	NA
11-2011	Advertising and Promotions Managers	213	262	49	23.00	49	66	115	Bachelor's degree	Less than 5 years	None	\$18.46	\$29.70	\$47.88
11-2021	Marketing Managers	745	888	143	19.19	143	160	303	Bachelor's degree	5 years or more	None	\$17.49	\$33.74	\$63.84
11-2022	Sales Managers	1,954	2,288	334	17.09	334	419	753	Bachelor's degree	Less than 5 years	None	\$17.28	\$32.94	\$65.26
11-2031	Public Relations and Fundraising Managers	238	256	18	7.56	18	51	69	Bachelor's degree	5 years or more	None	\$14.30	\$30.11	\$55.83
11-3000	Operations Specialties Managers	10,649	11,642	993	9.32	1,069	2,007	3,076	NA	NA	NA	NA	NA	NA
11-3011	Administrative Services Managers	2,347	2,660	313	13.34	313	382	695	Bachelor's degree	Less than 5 years	None	\$13.20	\$23.03	\$42.03
11-3021	Computer and Information Systems Managers	1,089	1,283	194	17.81	194	151	345	Bachelor's degree	5 years or more	None	\$19.08	\$33.17	\$56.09
11-3031	Financial Managers	3,701	4,068	367	9.92	367	694	1,061	Bachelor's degree	5 years or more	None	\$16.41	\$30.00	\$59.71
11-3051	Industrial Production Managers	1,268	1,192	-76	-5.99	0	230	230	Bachelor's degree	5 years or more	None	\$20.17	\$43.53	\$72.56
11-3061	Purchasing Managers	318	336	18	5.66	18	70	88	Bachelor's degree	5 years or more	None	\$14.67	\$28.20	\$53.65
11-3071	Transportation, Storage, and Distribution Managers	736	792	56	7.61	56	168	224	High school diploma or equivalent	5 years or more	None	\$11.85	\$30.05	\$58.12
11-3111	Compensation and Benefits Managers	69	75	6	8.70	6	18	24	Bachelor's degree	5 years or more	None	\$15.70	\$34.18	\$68.52
11-3121	Human Resources Managers	1,051	1,162	111	10.56	111	276	387	Bachelor's degree	5 years or more	None	\$15.67	\$28.06	\$56.95
11-3131	Training and Development Managers	70	74	4	5.71	4	18	22	Bachelor's degree	5 years or more	None	\$16.35	\$27.03	\$44.93
11-9000	Other Management Occupations	53,580	57,769	4,189	7.82	5,647	10,925	16,572	NA	NA	NA	NA	NA	NA
11-9021	Construction Managers	2,109	2,427	318	15.08	318	332	650	Bachelor's degree	None	Moderate-term on-the-job training	\$15.47	\$23.19	\$49.33
11-9031	Education Administrators, Preschool and Childcare Center/Program	222	266	44	19.82	44	59	103	Bachelor's degree	Less than 5 years	None	\$10.05	\$17.65	\$29.26
11-9032	Education Administrators, Elementary and Secondary School	1,873	1,857	-16	-0.85	0	498	498	Master's degree	5 years or more	None	NA	NA	NA
11-9033	Education Administrators, Postsecondary	1,395	1,514	119	8.53	119	371	490	Master's degree	5 years or more	None	\$12.54	\$21.50	\$38.35
11-9039	Education Administrators, All Other	352	366	14	3.98	14	94	108	Bachelor's degree	Less than 5 years	None	\$15.24	\$48.02	\$61.22

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

JOBS BY OCUPATION

2012-2022

SOC Code	Occupation* SOC Title	2012 Employment	2022 Projected Employment	Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
				Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
												10%	50%	90%
11-9041	Architectural and Engineering Managers	890	895	5	0.56	5	218	223	Bachelor's degree	5 years or more	None	\$20.91	\$43.76	\$70.71
11-9051	Food Service Managers	2,467	2,754	287	11.63	287	440	727	diploma or equivalent	Less than 5 years	None	\$11.90	\$14.47	\$23.55
11-9071	Gaming Managers	101	124	23	22.77	23	21	44	High school diploma or equivalent	Less than 5 years	None	\$13.03	\$19.82	\$41.96
11-9081	Lodging Managers	185	202	17	9.19	17	57	74	High school diploma or equivalent	Less than 5 years	None	\$15.75	\$26.02	\$44.95
11-9111	Medical and Health Services Managers	1,132	1,442	310	27.39	310	275	585	Bachelor's degree	None	None	\$17.51	\$28.68	\$57.96
11-9121	Natural Sciences Managers	77	80	3	3.90	3	16	19	Bachelor's degree	5 years or more	None	\$19.37	\$43.28	\$58.72
11-9131	Postmasters and Mail Superintendents	78	72	-6	-7.69	0	17	17	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$31.59	\$35.93	\$40.92
11-9141	Property, Real Estate, and Community Association Managers	512	642	130	25.39	130	116	246	High school diploma or equivalent	Less than 5 years	None	\$12.15	\$17.28	\$47.21
11-9151	Social and Community Service Managers	434	550	116	26.73	116	89	205	Bachelor's degree	5 years or more	None	\$10.80	\$17.88	\$34.55
11-9161	Emergency Management Directors	141	153	12	8.51	12	19	31	Bachelor's degree	5 years or more	None	\$10.28	\$15.79	\$28.40
11-9199	Managers, All Other	27,614	31,854	4,240	15.35	4,240	6,042	10,282	High school diploma or equivalent	Less than 5 years	None	\$13.41	\$26.31	\$49.56
13-0000	Business and Financial Operations Occupations	44,587	48,950	4,363	9.79	4,455	9,333	13,788	NA	NA	NA	\$9.06	\$15.48	\$31.62
13-1000	Business Operations Specialists	26,205	28,647	2,442	9.32	2,494	4,433	6,927	NA	NA	NA	NA	NA	NA
13-1021	Buyers and Purchasing Agents, Farm Products	147	169	22	14.97	22	28	50	High school diploma or equivalent	None	Long-term on-the-job training	\$10.13	\$13.47	\$31.65
13-1022	Wholesale and Retail Buyers, Except Farm Products	1,301	1,541	240	18.45	240	324	564	High school diploma or equivalent	None	Long-term on-the-job training	\$7.77	\$8.92	\$16.64
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	2,148	2,227	79	3.68	79	388	467	High school diploma or equivalent	None	Long-term on-the-job training	\$8.48	\$14.44	\$28.95
13-1031	Claims Adjusters, Examiners, and Investigators	1,554	1,695	141	9.07	141	359	500	High school diploma or equivalent	None	Long-term on-the-job training	\$10.06	\$16.89	\$33.12
13-1032	Insurance Appraisers, Auto Damage	109	113	4	3.67	4	25	29	Postsecondary non-degree award	None	Moderate-term on-the-job training	\$8.40	\$15.63	\$25.87
13-1041	Compliance Officers	3,508	3,630	122	3.48	122	648	770	Bachelor's degree	None	Moderate-term on-the-job training	\$9.40	\$18.38	\$37.29

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

JOBS BY OCUPATION

2012-2022

SOC Code	Occupation* SOC Title	2012 Employment	2022 Projected Employment	Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
				Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
												10%	50%	90%
13-1051	Cost Estimators	339	343	4	1.18	4	109	113	Bachelor's degree	None	None	\$10.14	\$17.12	\$28.80
13-1071	Human Resources Specialists	2,731	2,764	33	1.21	33	499	532	Bachelor's degree	None	None	\$9.47	\$15.07	\$27.43
13-1075	Labor Relations Specialists	296	246	-50	-16.89	0	54	54	Bachelor's degree	None	None	\$8.92	\$17.87	\$29.05
13-1081	Logisticians	498	626	128	25.70	128	58	186	Bachelor's degree	None	None	\$12.76	\$22.54	\$34.98
13-1111	Management Analysts	1,434	1,827	393	27.41	393	222	615	Bachelor's degree	Less than 5 years	None	\$12.99	\$22.82	\$38.61
13-1121	Meeting, Convention, and Event Planners	1,169	1,584	415	35.50	415	160	575	Bachelor's degree	None	None	\$9.54	\$27.63	\$37.14
13-1141	Compensation, Benefits, and Job Analysis Specialists	287	285	-2	-0.70	0	52	52	Bachelor's degree	None	None	\$9.29	\$17.13	\$31.83
13-1151	Training and Development Specialists	813	882	69	8.49	69	149	218	Bachelor's degree	Less than 5 years	None	\$8.84	\$14.94	\$26.42
13-1161	Market Research Analysts and Marketing Specialists	1,850	2,577	727	39.30	727	254	981	Bachelor's degree	None	None	\$8.68	\$15.70	\$37.54
13-1199	Business Operations Specialists, All Other	7,960	8,069	109	1.37	109	1,091	1,200	High school diploma or equivalent	None	None	\$9.12	\$14.32	\$28.53
13-2000	Financial Specialists	18,382	20,303	1,921	10.45	1,961	4,900	6,861	NA	NA	NA	NA	NA	NA
13-2011	Accountants and Auditors	10,415	11,699	1,284	12.33	1,284	3,082	4,366	Bachelor's degree	None	None	\$9.91	\$15.10	\$26.71
13-2021	Appraisers and Assessors of Real Estate	412	434	22	5.34	22	37	59	Bachelor's degree	None	Long-term on-the-job training	\$8.61	\$12.97	\$21.25
13-2031	Budget Analysts	588	578	-10	-1.70	0	236	236	Bachelor's degree	None	None	\$10.60	\$20.38	\$35.78
13-2041	Credit Analysts	602	707	105	17.44	105	150	255	Bachelor's degree	None	None	\$9.38	\$13.26	\$27.36
13-2051	Financial Analysts	1,160	1,335	175	15.09	175	282	457	Bachelor's degree	None	None	\$13.18	\$22.72	\$43.01
13-2052	Personal Financial Advisors	340	444	104	30.59	104	55	159	Bachelor's degree	None	None	\$12.43	\$17.77	\$41.65
13-2053	Insurance Underwriters	856	872	16	1.87	16	232	248	Bachelor's degree	None	Moderate-term on-the-job training	\$12.00	\$20.18	\$30.38
13-2061	Financial Examiners	499	519	20	4.01	20	127	147	Bachelor's degree	None	Moderate-term on-the-job training	\$9.30	\$14.39	\$31.61
13-2071	Credit Counselors	104	128	24	23.08	24	19	43	Bachelor's degree	None	Moderate-term on-the-job training	\$12.93	\$20.54	\$53.71
13-2072	Loan Officers	1,537	1,644	107	6.96	107	281	388	Bachelor's degree	None	Moderate-term on-the-job training	\$10.03	\$14.16	\$25.88

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

JOBS BY OCUPATION

2012-2022

SOC Code	Occupation* SOC Title	2012 Employment	2022 Projected Employment	Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
				Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
												10%	50%	90%
13-2081	Tax Examiners and Collectors, and Revenue Agents	688	658	-30	-4.36	0	237	237	Bachelor's degree	None	Moderate-term on-the-job training	\$7.78	\$9.20	\$26.61
13-2082	Tax Preparers	390	469	79	20.26	79	79	158	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.86	\$9.50	\$27.81
13-2099	Financial Specialists, All Other	791	816	25	3.16	25	83	108	Bachelor's degree	None	Moderate-term on-the-job training	\$8.31	\$12.06	\$28.24
15-0000	Computer and Mathematical Occupations	9,703	11,657	1,954	20.14	1,954	1,722	3,676	NA	NA	NA	\$9.50	\$18.29	\$35.14
15-1100	Computer Occupations	9,273	11,149	1,876	20.23	1,876	1,601	3,477	NA	NA	NA	NA	NA	NA
15-1121	Computer Systems Analysts	1,085	1,370	285	26.27	285	171	456	Bachelor's degree	None	None	\$14.05	\$22.52	\$40.26
15-1122	Information Security Analysts	193	286	93	48.19	93	30	123	Bachelor's degree	Less than 5 years	None	\$13.86	\$21.07	\$35.58
15-1131	Computer Programmers	1,474	1,675	201	13.64	201	385	586	Bachelor's degree	None	None	\$11.99	\$21.47	\$32.54
15-1132	Software Developers, Applications	335	448	113	33.73	113	43	156	Bachelor's degree	None	None	\$13.87	\$22.18	\$35.74
15-1133	Software Developers, Systems Software	488	628	140	28.69	140	63	203	Bachelor's degree	None	None	\$14.03	\$30.92	\$51.68
15-1141	Database Administrators	401	471	70	17.46	70	76	146	Bachelor's degree	Less than 5 years	None	\$12.86	\$21.64	\$36.26
15-1142	Network and Computer Systems Administrators	688	754	66	9.59	66	108	174	Bachelor's degree	None	None	\$12.52	\$20.96	\$35.04
15-1143	Computer Network Architects	395	487	92	23.29	92	62	154	Bachelor's degree	5 years or more	None	\$13.95	\$21.63	\$38.04
15-1151	Computer User Support Specialists	2,862	3,527	665	23.24	665	450	1,115	Some college, no degree	None	Moderate-term on-the-job training	\$8.18	\$12.96	\$23.39
15-1152	Computer Network Support Specialists	539	589	50	9.28	50	85	135	Associate's degree	None	None	\$11.67	\$17.34	\$28.86
15-1199	Computer Occupations, All Other	630	678	48	7.62	48	99	147	Bachelor's degree	None	None	\$11.88	\$24.76	\$47.48
15-2000	Mathematical Science Occupations	430	508	78	18.14	78	121	199	NA	NA	NA	NA	NA	NA
15-2031	Operations Research Analysts	149	177	28	18.79	28	34	62	Bachelor's degree	None	None	\$10.39	\$28.19	\$53.69
15-2041	Statisticians	247	291	44	17.81	44	78	122	Master's degree	None	None	\$10.66	\$14.42	\$22.84
17-0000	Architecture and Engineering Occupations	14,617	15,364	747	5.11	1,024	3,398	4,422	NA	NA	NA	\$11.31	\$22.24	\$42.39
17-1000	Architects, Surveyors, and Cartographers	719	832	113	15.72	128	166	294	NA	NA	NA	NA	NA	NA
17-1011	Architects, Except Landscape and Naval	486	604	118	24.28	118	115	233	Bachelor's degree	None	Internship/residency	\$15.59	\$22.58	\$43.72
17-1022	Surveyors	174	160	-14	-8.05	0	37	37	Bachelor's degree	Less than 5 years	None	\$8.35	\$16.28	\$26.00
17-2000	Engineers	8,482	9,064	582	6.86	703	2,200	2,903	NA	NA	NA	NA	NA	NA

Source: Puerto Rico Department of Labor and Human Resources as part of the Projections Managing Partnership (PMP) - July 2014.

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

JOBS BY OCUPATION

2012-2022

SOC Code	Occupation* SOC Title	2012 Employment	2022 Projected Employment	Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
				Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
												10%	50%	90%
17-2021	Agricultural Engineers	45	52	7	15.56	7	11	18	Bachelor's degree	None	None	\$13.06	\$21.23	\$40.37
17-2031	Biomedical Engineers	30	36	6	20.00	6	8	14	Bachelor's degree	None	None	NA	NA	NA
17-2041	Chemical Engineers	150	186	36	24.00	36	35	71	Bachelor's degree	None	None	\$15.65	\$21.51	\$49.26
17-2051	Civil Engineers	2,489	2,737	248	9.96	248	605	853	Bachelor's degree	None	None	\$13.77	\$23.39	\$40.41
17-2061	Computer Hardware Engineers	308	326	18	5.84	18	66	84	Bachelor's degree	None	None	\$20.56	\$35.01	\$53.98
17-2071	Electrical Engineers	773	794	21	2.72	21	169	190	Bachelor's degree	None	None	\$19.25	\$30.40	\$42.73
17-2072	Electronics Engineers, Except Computer	239	290	51	21.34	51	52	103	Bachelor's degree	None	None	\$16.30	\$31.74	\$50.57
17-2081	Environmental Engineers	155	166	11	7.10	11	38	49	Bachelor's degree	None	None	\$18.40	\$39.14	\$58.15
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	87	89	2	2.30	2	25	27	Bachelor's degree	None	None	\$13.60	\$40.64	\$55.66
17-2112	Industrial Engineers	2,382	2,269	-113	-4.74	0	696	696	Bachelor's degree	None	None	\$19.37	\$32.63	\$48.74
17-2141	Mechanical Engineers	874	1,022	148	16.93	148	298	446	Bachelor's degree	None	None	\$16.47	\$23.47	\$45.12
17-2199	Engineers, All Other	516	508	-8	-1.55	0	95	95	Bachelor's degree	None	None	\$16.00	\$27.06	\$48.51
17-3000	<i>Drafters, Engineering Technicians, and Mapping Technicians</i>	5,416	5,468	52	0.96	193	1,032	1,225	NA	NA	NA	NA	NA	NA
17-3011	Architectural and Civil Drafters	591	601	10	1.69	10	79	89	Associate's degree	None	None	\$8.10	\$11.73	\$19.32
17-3012	Electrical and Electronics Drafters	111	134	23	20.72	23	15	38	Associate's degree	None	None	\$11.91	\$13.76	\$21.07
17-3013	Mechanical Drafters	368	399	31	8.42	31	49	80	Associate's degree	None	None	\$9.10	\$14.31	\$23.39
17-3019	Drafters, All Other	104	107	3	2.88	3	14	17	Associate's degree	None	None	\$8.42	\$12.44	\$22.36
17-3022	Civil Engineering Technicians	505	438	-67	-13.27	0	105	105	Associate's degree	None	None	\$8.31	\$11.49	\$17.92
17-3023	Electrical and Electronics Engineering Technicians	1,520	1,581	61	4.01	61	315	376	Associate's degree	None	None	\$9.82	\$17.93	\$27.82
17-3025	Environmental Engineering Technicians	204	258	54	26.47	54	42	96	Associate's degree	None	None	\$8.16	\$11.38	\$33.31
17-3026	Industrial Engineering Technicians	1,325	1,264	-61	-4.60	0	274	274	Associate's degree	None	None	\$12.29	\$18.54	\$32.32
17-3027	Mechanical Engineering Technicians	170	165	-5	-2.94	0	35	35	Associate's degree	None	None	\$10.41	\$15.76	\$22.46
17-3029	Engineering Technicians, Except Drafters, All Other	295	290	-5	-1.69	0	61	61	Associate's degree	None	None	\$9.84	\$15.41	\$27.03

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

JOBS BY OCUPATION

2012-2022

SOC Code	Occupation* SOC Title	2012 Employment	2022 Projected Employment	Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
				Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
												10%	50%	90%
17-3031	Surveying and Mapping Technicians	155	164	9	5.81	9	28	37	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.83	\$9.57	\$17.50
19-0000	Life, Physical, and Social Science Occupations	7,948	8,522	574	7.22	597	2,289	2,886	NA	NA	NA	\$10.07	\$18.05	\$36.38
19-1000	Life Scientists	1,921	2,142	221	11.50	221	562	783	NA	NA	NA	NA	NA	NA
19-1012	Food Scientists and Technologists	377	478	101	26.79	101	125	226	Bachelor's degree	None	None	\$10.66	\$17.00	\$26.95
19-1021	Biochemists and Biophysicists	47	56	9	19.15	9	13	22	Doctoral or professional degree	None	None	\$19.50	\$25.32	\$57.94
19-1022	Microbiologists	251	257	6	2.39	6	72	78	Bachelor's degree	None	None	\$10.61	\$20.54	\$34.22
19-1031	Conservation Scientists	39	40	1	2.56	1	11	12	Bachelor's degree	None	None	\$22.79	\$32.20	\$43.01
19-1041	Epidemiologists	51	61	10	19.61	10	11	21	Master's degree	None	None	\$14.49	\$17.30	\$22.63
19-1042	Medical Scientists, Except Epidemiologists	144	159	15	10.42	15	30	45	Doctoral or professional degree	None	None	\$8.75	\$17.00	\$59.32
19-1099	Life Scientists, All Other	183	192	9	4.92	9	39	48	Bachelor's degree	None	None	\$11.12	\$20.41	\$35.66
19-2000	Physical Scientists	2,392	2,418	26	1.09	40	631	671	NA	NA	NA	NA	NA	NA
19-2021	Atmospheric and Space Scientists	30	32	2	6.67	2	7	9	Bachelor's degree	None	None	NA	NA	NA
19-2031	Chemists	1,568	1,558	-10	-0.64	0	407	407	Bachelor's degree	None	None	\$15.30	\$25.52	\$43.26
19-2041	Environmental Scientists and Specialists, Including Health	511	507	-4	-0.78	0	151	151	Bachelor's degree	None	None	\$9.90	\$14.41	\$29.76
19-2099	Physical Scientists, All Other	200	224	24	12.00	24	42	66	Bachelor's degree	None	None	\$10.29	\$18.35	\$44.88
19-3000	Social Scientists and Related Workers	1,213	1,369	156	12.86	156	310	466	NA	NA	NA	NA	NA	NA
19-3011	Economists	100	100	0	0.00	0	30	30	Master's degree	None	None	\$11.79	\$16.83	\$27.12
19-3031	Clinical, Counseling, and School Psychologists	447	525	78	17.45	78	122	200	Doctoral or professional degree	None	Internship/residency	\$8.02	\$16.22	\$31.59
19-3039	Psychologists, All Other	270	322	52	19.26	52	74	126	Master's degree	None	Internship/residency	\$9.34	\$28.75	\$45.08
19-3099	Social Scientists and Related Workers, All Other	289	297	8	2.77	8	48	56	Bachelor's degree	None	None	\$10.59	\$19.13	\$39.70
19-4000	Life, Physical, and Social Science Technicians	2,422	2,593	171	7.06	180	786	966	NA	NA	NA	NA	NA	NA
19-4021	Biological Technicians	318	341	23	7.23	23	95	118	Bachelor's degree	None	None	\$10.25	\$15.60	\$21.62
19-4031	Chemical Technicians	823	841	18	2.19	18	203	221	Associate's degree	None	Moderate-term on-the-job training	\$8.98	\$15.71	\$24.75

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

JOBS BY OCUPATION

2012-2022

SOC Code	Occupation* SOC Title	2022		Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
		2012 Employment	Projected Employment	Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
												10%	50%	90%
19-4091	Environmental Science and Protection Technicians, Including Health	130	152	22	16.92	22	51	73	Associate's degree	None	None	\$8.36	\$12.40	\$26.62
19-4093	Forest and Conservation Technicians	30	31	1	3.33	1	12	13	Associate's degree	None	None	NA	NA	NA
19-4099	Life, Physical, and Social Science Technicians, All Other	563	582	19	3.37	19	221	240	Associate's degree	None	None	\$8.21	\$13.42	\$22.76
21-0000	Community and Social Service Occupations	17,634	18,872	1,238	7.02	1,332	4,173	5,505	NA	NA	NA	\$8.39	\$12.50	\$19.30
21-1000	Counselors, Social Workers, and Other Community and Social Service Specialists	17,434	18,647	1,213	6.96	1,307	4,130	5,437	NA	NA	NA	NA	NA	NA
21-1012	Educational, Guidance, School, and Vocational Counselors	1,338	1,446	108	8.07	108	284	392	Master's degree	None	None	\$10.42	\$16.52	\$22.41
21-1014	Mental Health Counselors	174	245	71	40.80	71	37	108	Master's degree	None	Internship/residency	\$7.95	\$10.68	\$20.45
21-1015	Rehabilitation Counselors	393	470	77	19.59	77	84	161	Master's degree	None	None	\$10.20	\$13.79	\$19.45
21-1019	Counselors, All Other	544	640	96	17.65	96	116	212	Master's degree	None	None	\$8.68	\$13.51	\$26.08
21-1021	Child, Family, and School Social Workers	3,962	4,028	66	1.67	66	839	905	Bachelor's degree	None	None	\$9.99	\$14.81	\$20.77
21-1022	Healthcare Social Workers	753	1,010	257	34.13	257	159	416	Master's degree	None	None	\$8.39	\$12.86	\$19.84
21-1023	Mental Health and Substance Abuse Social Workers	313	418	105	33.55	105	66	171	Bachelor's degree	None	None	\$7.91	\$9.60	\$22.55
21-1029	Social Workers, All Other	1,060	1,147	87	8.21	87	225	312	Bachelor's degree	None	None	\$9.43	\$13.30	\$28.75
21-1091	Health Educators	558	658	100	17.92	100	146	246	Bachelor's degree	None	None	\$8.73	\$13.06	\$18.95
21-1093	Social and Human Service Assistants	6,024	6,164	140	2.32	140	1,575	1,715	High school diploma or equivalent	None	Short-term on-the-job training	\$7.94	\$10.56	\$14.26
21-1094	Community Health Workers	211	282	71	33.65	71	55	126	High school diploma or equivalent	None	Short-term on-the-job training	\$8.03	\$11.89	\$18.34
21-1099	Community and Social Service Specialists, All Other	1,356	1,421	65	4.79	65	354	419	Master's degree	None	None	\$8.18	\$12.43	\$18.18
21-2000	Religious Workers	200	225	25	12.50	25	43	68	NA	NA	NA	NA	NA	NA
21-2011	Clergy	180	203	23	12.78	23	37	60	Bachelor's degree	None	Moderate-term on-the-job training	\$7.88	\$9.63	\$27.37
23-0000	Legal Occupations	6,545	7,278	733	11.20	793	1,052	1,845	NA	NA	NA	\$11.55	\$24.79	\$44.78
23-1000	Lawyers, Judges, and Related Workers	5,104	5,654	550	10.78	602	817	1,419	NA	NA	NA	NA	NA	NA
23-1011	Lawyers	4,440	5,042	602	13.56	602	711	1,313	Doctoral or professional degree	None	None	\$15.30	\$26.76	\$48.76
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	62	58	-4	-6.45	0	10	10	Doctoral or professional degree	Less than 5 years	Short-term on-the-job training	\$22.87	\$33.79	\$70.14

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

JOBS BY OCUPATION

2012-2022

SOC Code	Occupation* SOC Title	2012 Employment	2022 Projected Employment	Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
				Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
												10%	50%	90%
23-1022	Arbitrators, Mediators, and Conciliators	125	122	-3	-2.40	0	20	20	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training	\$12.26	\$17.75	\$25.63
23-1023	Judges, Magistrate Judges, and Magistrates	477	432	-45	-9.43	0	76	76	Doctoral or professional degree	5 years or more	Short-term on-the-job training	\$33.58	\$40.63	\$45.65
23-2000	Legal Support Workers	1,441	1,624	183	12.70	191	235	426	NA	NA	NA	NA	NA	NA
23-2011	Paralegals and Legal Assistants	619	728	109	17.61	109	101	210	Associate's degree	None	None	\$8.99	\$16.69	\$29.66
23-2099	Legal Support Workers, All Other	244	260	16	6.56	16	40	56	High school diploma or equivalent	None	Short-term on-the-job training	\$10.80	\$21.35	\$33.34
25-0000	Education, Training, and Library Occupations	75,598	79,367	3,769	4.99	4,012	15,932	19,944	NA	NA	NA	\$8.60	\$14.86	\$22.63
25-1000	Postsecondary Teachers	12,815	14,034	1,219	9.51	1,230	1,927	3,157	NA	NA	NA	NA	NA	NA
25-1011	Business Teachers, Postsecondary	861	923	62	7.20	62	129	191	Doctoral or professional degree	None	None	NA	NA	NA
25-1021	Computer Science Teachers, Postsecondary	411	434	23	5.60	23	62	85	Doctoral or professional degree	None	None	NA	NA	NA
25-1022	Mathematical Science Teachers, Postsecondary	147	154	7	4.76	7	22	29	Doctoral or professional degree	None	None	NA	NA	NA
25-1032	Engineering Teachers, Postsecondary	282	295	13	4.61	13	42	55	Doctoral or professional degree	None	None	NA	NA	NA
25-1042	Biological Science Teachers, Postsecondary	239	266	27	11.30	27	36	63	Doctoral or professional degree	None	None	NA	NA	NA
25-1052	Chemistry Teachers, Postsecondary	133	142	9	6.77	9	20	29	Doctoral or professional degree	None	None	NA	NA	NA
25-1054	Physics Teachers, Postsecondary	40	42	2	5.00	2	6	8	Doctoral or professional degree	None	None	NA	NA	NA
25-1066	Psychology Teachers, Postsecondary	231	247	16	6.93	16	35	51	Doctoral or professional degree	None	None	NA	NA	NA
25-1067	Sociology Teachers, Postsecondary	145	153	8	5.52	8	22	30	Doctoral or professional degree	None	None	NA	NA	NA
25-1069	Social Sciences Teachers, Postsecondary, All Other	217	230	13	5.99	13	33	46	Doctoral or professional degree	None	None	NA	NA	NA
25-1071	Health Specialties Teachers, Postsecondary	1,416	1,800	384	27.12	384	213	597	Doctoral or professional degree	Less than 5 years	None	NA	NA	NA

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JOBS BY OCUPATION

2012-2022

SOC Code	Occupation* SOC Title	2012 Employment	2022 Projected Employment	Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$) 2013 Percentile		
				Numeric	Percent	Growth	Due to Replacement	Total				10%	50%	90%
25-1072	Nursing Instructors and Teachers, Postsecondary	863	1,092	229	26.54	229	130	359	Master's degree	Less than 5 years	None	NA	NA	NA
25-1081	Education Teachers, Postsecondary	525	563	38	7.24	38	79	117	Doctoral or professional degree	None	None	NA	NA	NA
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	36	38	2	5.56	2	5	7	Doctoral or professional degree	None	None	NA	NA	NA
25-1112	Law Teachers, Postsecondary	178	196	18	10.11	18	27	45	Doctoral or professional degree	None	None	NA	NA	NA
25-1113	Social Work Teachers, Postsecondary	43	46	3	6.98	3	6	9	Doctoral or professional degree	None	None	NA	NA	NA
25-1121	Art, Drama, and Music Teachers, Postsecondary	265	254	-11	-4.15	0	40	40	Master's degree	None	None	NA	NA	NA
25-1123	English Language and Literature Teachers, Postsecondary	164	172	8	4.88	8	25	33	Doctoral or professional degree	None	None	NA	NA	NA
25-1124	Foreign Language and Literature Teachers, Postsecondary	201	216	15	7.46	15	30	45	Doctoral or professional degree	None	None	NA	NA	NA
25-1125	History Teachers, Postsecondary	114	121	7	6.14	7	17	24	Doctoral or professional degree	None	None	NA	NA	NA
25-1126	Philosophy and Religion Teachers, Postsecondary	55	61	6	10.91	6	8	14	Doctoral or professional degree	None	None	NA	NA	NA
25-1191	Graduate Teaching Assistants	108	130	22	20.37	22	16	38	Bachelor's degree	None	None	NA	NA	NA
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	75	80	5	6.67	5	11	16	Doctoral or professional degree	None	None	NA	NA	NA
25-1194	Vocational Education Teachers, Postsecondary	2,299	2,412	113	4.92	113	345	458	Bachelor's degree	Less than 5 years	None	\$10.38	\$13.98	\$18.12
25-1199	Postsecondary Teachers, All Other	3,586	3,777	191	5.33	191	539	730	Doctoral or professional degree	None	None	NA	NA	NA
25-2000	Preschool, Primary, Secondary, and Special Education School Teachers	41,605	43,018	1,413	3.40	1,638	9,800	11,438	NA	NA	NA	NA	NA	NA
25-2011	Preschool Teachers, Except Special Education	3,550	4,220	670	18.87	670	997	1,667	Associate's degree	None	None	\$8.32	\$10.83	\$15.32
25-2012	Kindergarten Teachers, Except Special Education	135	149	14	10.37	14	38	52	Bachelor's degree	None	Internship/residency	NA	NA	NA
25-2021	Elementary School Teachers, Except Special Education	17,966	18,890	924	5.14	924	3,953	4,877	Bachelor's degree	None	Internship/residency	NA	NA	NA

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JOBS BY OCUPATION

2012-2022

SOC Code	Occupation* SOC Title	2012 Employment	2022 Projected Employment	Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
				Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
											10%	50%	90%	
25-2022	Middle School Teachers, Except Special and Career/Technical Education	586	615	29	4.95	29	129	158	Bachelor's degree	None	Internship/residency	NA	NA	NA
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	12,465	12,303	-162	-1.30	0	3,387	3,387	Bachelor's degree	None	Internship/residency	NA	NA	NA
25-2032	Career/Technical Education Teachers, Secondary School	1,154	1,132	-22	-1.91	0	314	314	Bachelor's degree	Less than 5 years	Internship/residency	NA	NA	NA
25-2059	Special Education Teachers, All Other	4,140	4,125	-15	-0.36	0	707	707	Bachelor's degree	None	Internship/residency	NA	NA	NA
25-3000	Other Teachers and Instructors	10,296	10,711	415	4.03	415	1,757	2,172	NA	NA	NA	NA	NA	NA
25-3021	Self-Enrichment Education Teachers	518	592	74	14.29	74	88	162	High school diploma or equivalent	Less than 5 years	None	\$8.12	\$11.59	\$18.22
25-3099	Teachers and Instructors, All Other	9,567	9,858	291	3.04	291	1,633	1,924	Bachelor's degree	None	Internship/residency	NA	NA	NA
25-4000	Librarians, Curators, and Archivists	2,550	2,636	86	3.37	86	811	897	NA	NA	NA	NA	NA	NA
25-4011	Archivists	30	37	7	23.33	7	7	14	Master's degree	None	None	NA	NA	NA
25-4013	Museum Technicians and Conservators	45	48	3	6.67	3	10	13	Bachelor's degree	None	None	\$9.36	\$11.75	\$20.87
25-4021	Librarians	1,696	1,741	45	2.65	45	382	427	Master's degree	None	None	\$10.16	\$15.96	\$22.73
25-4031	Library Technicians	751	776	25	3.33	25	406	431	Postsecondary non-degree award	None	None	\$7.81	\$9.23	\$16.13
25-9000	Other Education, Training, and Library Occupations	8,332	8,968	636	7.63	643	1,637	2,280	NA	NA	NA	NA	NA	NA
25-9011	Audio-Visual and Multimedia Collections Specialists	94	87	-7	-7.45	0	8	8	Bachelor's degree	Less than 5 years	None	\$10.07	\$17.50	\$22.31
25-9021	Farm and Home Management Advisors	361	374	13	3.60	13	31	44	Master's degree	None	None	\$10.72	\$16.81	\$29.26
25-9031	Instructional Coordinators	1,147	1,272	125	10.90	125	98	223	Master's degree	5 years or more	None	\$9.09	\$14.03	\$22.23
25-9041	Teacher Assistants	6,543	7,038	495	7.57	495	1,484	1,979	Some college, no degree	None	None	NA	NA	NA
25-9099	Education, Training, and Library Workers, All Other	187	197	10	5.35	10	16	26	Bachelor's degree	None	None	\$9.17	\$14.86	\$18.57
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	10,657	12,277	1,620	15.20	1,633	2,335	3,968	NA	NA	NA	\$8.15	\$12.96	\$28.11
27-1000	Art and Design Workers	3,379	3,914	535	15.83	536	869	1,405	NA	NA	NA	NA	NA	NA
27-1011	Art Directors	488	559	71	14.55	71	116	187	Bachelor's degree	5 years or more	None	\$15.87	\$26.86	\$52.36
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	215	244	29	13.49	29	51	80	High school diploma or equivalent	None	Long-term on-the-job training	\$8.86	\$18.16	\$56.09
27-1014	Multimedia Artists and Animators	140	165	25	17.86	25	33	58	Bachelor's degree	None	Moderate-term on-the-job training	NA	NA	NA

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JOBS BY OCUPATION

2012-2022

SOC Code	Occupation* SOC Title	2012 Employment	2022 Projected Employment	Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
				Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
												10%	50%	90%
27-1021	Commercial and Industrial Designers	76	85	9	11.84	9	20	29	Bachelor's degree	None	None	\$12.39	\$15.29	\$34.15
27-1023	Floral Designers	186	206	20	10.75	20	49	69	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.61	\$8.55	\$10.04
27-1024	Graphic Designers	1,317	1,528	211	16.02	211	348	559	Bachelor's degree	None	None	\$8.38	\$12.87	\$21.67
27-1025	Interior Designers	104	123	19	18.27	19	28	47	Bachelor's degree	None	None	\$8.03	\$10.76	\$27.18
27-1026	Merchandise Displayers and Window Trimmers	711	847	136	19.13	136	188	324	High school diploma or equivalent	None	Moderate-term on-the-job training	\$8.00	\$9.87	\$11.60
27-2000	Entertainers and Performers, Sports and Related Workers	1,776	2,014	238	13.40	238	499	737	NA	NA	NA	NA	NA	NA
27-2012	Producers and Directors	581	690	109	18.76	109	196	305	Bachelor's degree	Less than 5 years	None	\$8.16	\$18.86	\$38.93
27-2022	Coaches and Scouts	355	393	38	10.70	38	105	143	Bachelor's degree	None	None	NA	NA	NA
27-2031	Dancers	86	94	8	9.30	8	25	33	High school diploma or equivalent	None	Long-term on-the-job training	\$8.09	\$11.70	\$14.25
27-2041	Music Directors and Composers	34	38	4	11.76	4	9	13	Bachelor's degree	Less than 5 years	None	NA	NA	NA
27-2042	Musicians and Singers	451	482	31	6.87	31	122	153	High school diploma or equivalent	None	Long-term on-the-job training	\$7.88	\$9.28	\$18.05
27-2099	Entertainers and Performers, Sports and Related Workers, All Other	225	267	42	18.67	42	28	70	High school diploma or equivalent	None	None	\$7.71	\$9.01	\$14.74
27-3000	Media and Communication Workers	3,170	3,758	588	18.55	600	639	1,239	NA	NA	NA	NA	NA	NA
27-3011	Radio and Television Announcers	251	261	10	3.98	10	52	62	Bachelor's degree	None	None	\$7.74	\$9.04	\$20.03
27-3021	Broadcast News Analysts	87	86	-1	-1.15	0	30	30	Bachelor's degree	None	None	\$8.77	\$17.04	\$53.54
27-3022	Reporters and Correspondents	417	406	-11	-2.64	0	142	142	Bachelor's degree	None	None	\$10.62	\$19.38	\$31.02
27-3031	Public Relations Specialists	961	1,060	99	10.30	99	132	231	Bachelor's degree	None	None	\$8.34	\$13.93	\$35.28
27-3041	Editors	400	457	57	14.25	57	97	154	Bachelor's degree	Less than 5 years	None	\$11.53	\$19.37	\$37.39
27-3043	Writers and Authors	387	447	60	15.50	60	84	144	Bachelor's degree	None	Moderate-term on-the-job training	\$10.68	\$21.18	\$36.32
27-3091	Interpreters and Translators	513	865	352	68.62	352	70	422	Bachelor's degree	None	Short-term on-the-job training	\$12.26	\$13.90	\$23.16

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JOBS BY OCUPATION

2012-2022

SOC Code	Occupation* SOC Title	2012 Employment	2022 Projected Employment	Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
				Numeric	Percent	Growth	Due to Replacement	Total				10%	50%	90%
27-3099	Media and Communication Workers, All Other	81	84	3	3.70	3	11	14	High school diploma or equivalent	None	Short-term on-the-job training	\$8.64	\$13.76	\$20.85
27-4000	Media and Communication Equipment Workers	2,332	2,591	259	11.11	259	328	587	NA	NA	NA	NA	NA	NA
27-4011	Audio and Video Equipment Technicians	608	724	116	19.08	116	110	226	Postsecondary non-degree award	None	Short-term on-the-job training	\$8.06	\$12.07	\$18.21
27-4012	Broadcast Technicians	237	242	5	2.11	5	43	48	Associate's degree	None	Short-term on-the-job training	\$8.04	\$13.44	\$21.68
27-4013	Radio Operators	264	267	3	1.14	3	48	51	High school diploma or equivalent	None	Short-term on-the-job training	\$7.62	\$8.65	\$12.38
27-4014	Sound Engineering Technicians	59	63	4	6.78	4	11	15	Postsecondary non-degree award	None	Short-term on-the-job training	\$7.92	\$13.68	\$27.61
27-4021	Photographers	791	891	100	12.64	100	83	183	High school diploma or equivalent	None	Long-term on-the-job training	\$8.01	\$13.19	\$22.41
27-4031	Camera Operators, Television, Video, and Motion Picture	204	231	27	13.24	27	16	43	Bachelor's degree	None	None	\$8.50	\$15.57	\$21.79
27-4032	Film and Video Editors	71	73	2	2.82	2	5	7	Bachelor's degree	None	None	\$10.73	\$17.93	\$27.25
27-4099	Media and Communication Equipment Workers, All Other	98	100	2	2.04	2	12	14	High school diploma or equivalent	None	Short-term on-the-job training	\$8.00	\$10.95	\$39.69
29-0000	Healthcare Practitioners and Technical Occupations	50,023	63,075	13,052	26.09	13,052	10,086	23,138	NA	NA	NA	\$8.32	\$13.65	\$29.60
29-1000	Health Diagnosing and Treating Practitioners	29,891	37,634	7,743	25.90	7,743	6,069	13,812	NA	NA	NA	NA	NA	NA
29-1031	Dietitians and Nutritionists	759	938	179	23.58	179	91	270	Bachelor's degree	None	Internship/residency	\$8.96	\$15.17	\$22.77
29-1041	Optometrists	183	258	75	40.98	75	53	128	Doctoral or professional degree	None	None	\$12.74	\$17.45	\$39.87
29-1051	Pharmacists	1,986	2,705	719	36.20	719	474	1,193	Doctoral or professional degree	None	None	\$19.26	\$38.84	\$55.45
29-1062	Family and General Practitioners	1,201	1,293	92	7.66	92	301	393	Doctoral or professional degree	None	Internship/residency	\$22.19	\$31.43	\$47.94
29-1063	Internists, General	256	291	35	13.67	35	64	99	Doctoral or professional degree	None	Internship/residency	\$25.48	\$45.14	NA
29-1065	Pediatricians, General	235	264	29	12.34	29	59	88	Doctoral or professional degree	None	Internship/residency	\$16.70	\$28.69	\$36.47

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				Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
											10%	50%	90%	
29-1066	Psychiatrists	63	77	14	22.22	14	16	30	Doctoral or professional degree	None	Internship/residency	\$36.13	\$69.63	NA
29-1069	Physicians and Surgeons, All Other	1,300	1,417	117	9.00	117	325	442	Doctoral or professional degree	None	Internship/residency	\$11.04	\$36.28	NA
29-1122	Occupational Therapists	263	316	53	20.15	53	36	89	Master's degree	None	None	\$8.61	\$15.05	\$34.51
29-1123	Physical Therapists	612	783	171	27.94	171	151	322	Doctoral or professional degree	None	None	\$8.25	\$17.57	\$32.44
29-1125	Recreational Therapists	78	92	14	17.95	14	16	30	Bachelor's degree	None	None	\$8.52	\$12.52	\$30.54
29-1126	Respiratory Therapists	548	718	170	31.02	170	79	249	Associate's degree	None	None	\$7.79	\$9.22	\$15.04
29-1127	Speech-Language Pathologists	80	91	11	13.75	11	12	23	Master's degree	None	None	\$9.09	\$17.50	\$41.37
29-1129	Therapists, All Other	116	165	49	42.24	49	14	63	Bachelor's degree	None	None	NA	NA	NA
29-1141	Registered Nurses	18,985	24,195	5,210	27.44	5,210	3,681	8,891	Associate's degree	None	None	\$11.82	\$14.73	\$20.97
29-1151	Nurse Anesthetists	293	357	64	21.84	64	57	121	Master's degree	None	None	\$17.05	\$26.10	\$35.06
29-1171	Nurse Practitioners	1,262	1,695	433	34.31	433	245	678	Master's degree	None	None	\$7.78	\$9.25	\$13.99
29-1199	Health Diagnosing and Treating Practitioners, All Other	178	197	19	10.67	19	37	56	Master's degree	None	None	\$23.68	\$33.56	\$44.82
29-2000	Health Technologists and Technicians	19,258	24,528	5,270	27.37	5,270	3,779	9,049	NA	NA	NA	NA	NA	NA
29-2011	Medical and Clinical Laboratory Technologists	2,323	2,806	483	20.79	483	609	1,092	Bachelor's degree	None	None	\$10.16	\$14.63	\$23.20
29-2012	Medical and Clinical Laboratory Technicians	647	866	219	33.85	219	170	389	Associate's degree	None	None	\$7.97	\$11.36	\$16.22
29-2031	Cardiovascular Technologists and Technicians	317	452	135	42.59	135	45	180	Associate's degree	None	None	\$7.88	\$10.58	\$17.31
29-2032	Diagnostic Medical Sonographers	288	457	169	58.68	169	41	210	Associate's degree	None	None	\$8.37	\$11.90	\$16.39
29-2033	Nuclear Medicine Technologists	180	234	54	30.00	54	25	79	Associate's degree	None	None	\$11.58	\$17.31	\$22.61
29-2034	Radiologic Technologists	1,211	1,539	328	27.09	328	171	499	Associate's degree	None	None	\$8.14	\$11.23	\$18.96
29-2035	Magnetic Resonance Imaging Technologists	158	203	45	28.48	45	22	67	Associate's degree	Less than 5 years	None	\$8.23	\$13.78	\$18.01
29-2041	Emergency Medical Technicians and Paramedics	2,015	2,164	149	7.39	149	550	699	Postsecondary non-degree award	None	None	\$7.76	\$9.23	\$13.99
29-2051	Dietetic Technicians	79	99	20	25.32	20	8	28	Associate's degree	None	None	\$8.01	\$11.96	\$18.59

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				Numeric	Percent	Growth	Due to Replacement	Total				10%	50%	90%
29-2052	Pharmacy Technicians	3,483	5,128	1,645	47.23	1,645	345	1,990	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.81	\$9.33	\$13.99
29-2053	Psychiatric Technicians	90	101	11	12.22	11	9	20	Postsecondary non-degree award	None	Short-term on-the-job training	\$7.79	\$8.93	\$21.37
29-2054	Respiratory Therapy Technicians	349	488	139	39.83	139	35	174	Associate's degree	None	Moderate-term on-the-job training	\$7.72	\$8.96	\$12.45
29-2055	Surgical Technologists	803	1,138	335	41.72	335	79	414	Postsecondary non-degree award	None	None	\$7.70	\$8.85	\$13.44
29-2057	Ophthalmic Medical Technicians	500	614	114	22.80	114	49	163	Postsecondary non-degree award	None	None	\$8.62	\$10.81	\$18.27
29-2061	Licensed Practical and Licensed Vocational Nurses	4,255	4,985	730	17.16	730	1,039	1,769	Postsecondary non-degree award	None	None	\$7.81	\$9.37	\$14.43
29-2071	Medical Records and Health Information Technicians	1,356	1,745	389	28.69	389	358	747	Postsecondary non-degree award	None	None	\$7.80	\$9.19	\$15.30
29-2081	Opticians, Dispensing	543	691	148	27.26	148	156	304	High school diploma or equivalent	None	Long-term on-the-job training	\$7.78	\$9.75	\$14.43
29-2091	Orthotists and Prosthetists	42	49	7	16.67	7	4	11	Master's degree	None	Internship/residency	\$8.33	\$16.92	\$36.44
29-2099	Health Technologists and Technicians, All Other	441	541	100	22.68	100	44	144	High school diploma or equivalent	None	None	\$8.55	\$13.41	\$25.02
29-9000	Other Healthcare Practitioners and Technical Occupations	874	913	39	4.46	39	238	277	NA	NA	NA	NA	NA	NA
29-9011	Occupational Health and Safety Specialists	655	658	3	0.46	3	178	181	Bachelor's degree	None	Short-term on-the-job training	\$9.53	\$16.73	\$30.22
29-9099	Healthcare Practitioners and Technical Workers, All Other	102	123	21	20.59	21	28	49	Bachelor's degree	None	None	\$8.38	\$27.61	\$48.51
31-0000	Healthcare Support Occupations	12,374	16,074	3,700	29.90	3,706	2,383	6,089	NA	NA	NA	\$7.67	\$8.86	\$12.55
31-1000	Nursing, Psychiatric, and Home Health Aides	3,908	5,457	1,549	39.64	1,549	743	2,292	NA	NA	NA	NA	NA	NA
31-1011	Home Health Aides	2,329	3,369	1,040	44.65	1,040	443	1,483	Less than high school	None	Short-term on-the-job training	\$7.58	\$8.43	\$9.29
31-1014	Nursing Assistants	941	1,242	301	31.99	301	179	480	Postsecondary non-degree award	None	None	\$7.71	\$8.95	\$16.24
31-1015	Orderlies	638	846	208	32.60	208	121	329	High school diploma or equivalent	None	Short-term on-the-job training	\$7.62	\$8.62	\$10.99
31-2000	Occupational Therapy and Physical Therapist Assistants and Aides	572	777	205	35.84	205	128	333	NA	NA	NA	NA	NA	NA

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				Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
												10%	50%	90%
31-2012	Occupational Therapy Aides	35	39	4	11.43	4	9	13	High school diploma or equivalent	None	Short-term on-the-job training	\$8.31	\$11.25	\$14.10
31-2021	Physical Therapist Assistants	484	667	183	37.81	183	107	290	Associate's degree	None	None	\$7.79	\$9.74	\$14.25
31-2022	Physical Therapist Aides	37	51	14	37.84	14	8	22	High school diploma or equivalent	None	Short-term on-the-job training	\$7.84	\$10.18	\$18.47
31-9000	Other Healthcare Support Occupations	7,894	9,840	1,946	24.65	1,952	1,512	3,464	NA	NA	NA	NA	NA	NA
31-9011	Massage Therapists	388	477	89	22.94	89	41	130	Postsecondary non-degree award	None	None	\$7.66	\$8.82	\$11.06
31-9091	Dental Assistants	2,354	2,768	414	17.59	414	488	902	Postsecondary non-degree award	None	None	\$7.58	\$8.43	\$9.30
31-9092	Medical Assistants	508	672	164	32.28	164	97	261	Postsecondary non-degree award	None	None	\$8.01	\$11.06	\$25.96
31-9093	Medical Equipment Preparers	166	208	42	25.30	42	32	74	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.74	\$9.28	\$15.57
31-9094	Medical Transcriptionists	209	234	25	11.96	25	40	65	Postsecondary non-degree award	None	None	\$8.39	\$12.05	\$16.50
31-9095	Pharmacy Aides	2,675	3,706	1,031	38.54	1,031	510	1,541	High school diploma or equivalent	None	Short-term on-the-job training	\$7.80	\$9.38	\$11.43
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	321	370	49	15.26	49	61	110	High school diploma or equivalent	None	Short-term on-the-job training	\$7.75	\$9.09	\$11.13
31-9097	Phlebotomists	457	595	138	30.20	138	87	225	Postsecondary non-degree award	None	None	\$7.80	\$9.54	\$13.83
31-9099	Healthcare Support Workers, All Other	816	810	-6	-0.74	0	156	156	High school diploma or equivalent	None	None	\$8.05	\$10.66	\$20.72
33-0000	Protective Service Occupations	63,971	66,530	2,559	4.00	4,736	15,378	20,114	NA	NA	NA	\$7.77	\$9.56	\$17.25
33-1000	Supervisors of Protective Service Workers	4,976	4,843	-133	-2.67	114	1,462	1,576	NA	NA	NA	NA	NA	NA
33-1012	First-Line Supervisors of Police and Detectives	3,224	3,056	-168	-5.21	0	952	952	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$11.44	\$16.64	\$21.37
33-1099	First-Line Supervisors of Protective Service Workers, All Other	963	1,077	114	11.84	114	218	332	High school diploma or equivalent	Less than 5 years	None	\$7.97	\$12.55	\$22.61
33-2000	Fire Fighting and Prevention Workers	1,806	1,632	-174	-9.63	0	495	495	NA	NA	NA	NA	NA	NA
33-3000	Law Enforcement Workers	26,274	24,565	-1,709	-6.50	10	7,848	7,858	NA	NA	NA	NA	NA	NA

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	SOC Title	2012 Employment	Projected Employment	Numeric	Percent	Growth	Due to Replacement	Total	2013 Percentile				10%	50%	90%
33-3011	Bailiffs	1,059	963	-96	-9.07	0	281	281	High school diploma or equivalent	None	Moderate-term on-the-job training	\$9.86	\$14.72	\$18.25	
33-3012	Correctional Officers and Jailers	5,586	5,029	-557	-9.97	0	1,484	1,484	High school diploma or equivalent	None	Moderate-term on-the-job training	\$8.83	\$12.48	\$14.28	
33-3021	Detectives and Criminal Investigators	783	793	10	1.28	10	173	183	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$12.78	\$23.44	\$55.72	
33-3051	Police and Sheriff's Patrol Officers	18,846	17,780	-1,066	-5.66	0	5,910	5,910	High school diploma or equivalent	None	Moderate-term on-the-job training	\$9.29	\$15.25	\$17.77	
33-9000	Other Protective Service Workers	30,915	35,490	4,575	14.80	4,612	5,573	10,185	NA	NA	NA	NA	NA	NA	
33-9021	Private Detectives and Investigators	255	307	52	20.39	52	72	124	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$7.85	\$9.56	\$14.21	
33-9031	Gaming Surveillance Officers and Gaming Investigators	86	105	19	22.09	19	13	32	High school diploma or equivalent	None	Short-term on-the-job training	\$7.75	\$9.24	\$13.42	
33-9032	Security Guards	28,652	33,076	4,424	15.44	4,424	4,390	8,814	High school diploma or equivalent	None	Short-term on-the-job training	\$7.57	\$8.44	\$9.33	
33-9093	Transportation Security Screeners	464	566	102	21.98	102	107	209	High school diploma or equivalent	None	Short-term on-the-job training	\$16.08	\$17.11	\$19.73	
33-9099	Protective Service Workers, All Other	1,293	1,256	-37	-2.86	0	884	884	High school diploma or equivalent	None	Short-term on-the-job training	\$8.02	\$12.10	\$17.65	
35-0000	Food Preparation and Serving Related Occupations	69,948	81,185	11,237	16.06	11,238	23,582	34,820	NA	NA	NA	\$7.62	\$8.60	\$10.86	
35-1000	Supervisors of Food Preparation and Serving Workers	7,743	9,158	1,415	18.27	1,415	2,111	3,526	NA	NA	NA	NA	NA	NA	
35-1011	Chefs and Head Cooks	611	711	100	16.37	100	99	199	High school diploma or equivalent	5 years or more	None	\$7.91	\$11.70	\$20.94	
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	7,132	8,447	1,315	18.44	1,315	2,012	3,327	High school diploma or equivalent	Less than 5 years	None	\$7.86	\$10.54	\$14.46	
35-2000	Cooks and Food Preparation Workers	32,925	36,779	3,854	11.71	3,855	7,547	11,402	NA	NA	NA	NA	NA	NA	
35-2011	Cooks, Fast Food	10,105	11,105	1,000	9.90	1,000	1,993	2,993	Less than high school	None	Short-term on-the-job training	\$7.58	\$8.40	\$9.22	
35-2012	Cooks, Institution and Cafeteria	4,235	5,117	882	20.83	882	835	1,717	Less than high school	None	Short-term on-the-job training	\$7.62	\$8.60	\$10.48	
35-2014	Cooks, Restaurant	6,093	7,712	1,619	26.57	1,619	1,202	2,821	Less than high school	Less than 5 years	Moderate-term on-the-job training	\$7.63	\$8.58	\$10.22	

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				Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
												10%	50%	90%
35-2021	Food Preparation Workers	11,774	12,058	284	2.41	284	3,375	3,659	Less than high school	None	Short-term on-the-job training	\$7.67	\$8.87	\$11.10
35-3000	Food and Beverage Serving Workers	24,601	29,779	5,178	21.05	5,178	11,233	16,411	NA	NA	NA	NA	NA	NA
35-3011	Bartenders	1,770	2,182	412	23.28	412	654	1,066	Less than high school	None	Short-term on-the-job training	\$7.61	\$8.52	\$9.70
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	9,275	11,784	2,509	27.05	2,509	3,541	6,050	Less than high school	None	Short-term on-the-job training	\$7.61	\$8.45	\$9.29
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	4,430	5,090	660	14.90	660	2,701	3,361	Less than high school	None	Short-term on-the-job training	\$7.56	\$8.39	\$9.23
35-3031	Waiters and Waitresses	8,840	10,373	1,533	17.34	1,533	4,253	5,786	Less than high school	None	Short-term on-the-job training	\$7.60	\$8.49	\$9.45
35-3041	Food Servers, Nonrestaurant	286	350	64	22.38	64	84	148	Less than high school	None	Short-term on-the-job training	\$7.54	\$8.40	\$9.27
35-9000	Other Food Preparation and Serving Related Workers	4,679	5,469	790	16.88	790	2,691	3,481	NA	NA	NA	NA	NA	NA
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	462	556	94	20.35	94	203	297	Less than high school	None	Short-term on-the-job training	\$7.65	\$8.56	\$9.60
35-9021	Dishwashers	2,102	2,455	353	16.79	353	925	1,278	Less than high school	None	Short-term on-the-job training	\$7.60	\$8.50	\$9.48
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	1,985	2,319	334	16.83	334	1,493	1,827	Less than high school	None	None	\$7.61	\$8.47	\$9.37
35-9099	Food Preparation and Serving Related Workers, All Other	130	139	9	6.92	9	70	79	Less than high school	None	Short-term on-the-job training	\$7.60	\$8.60	\$12.47
37-0000	Building and Grounds Cleaning and Maintenance Occupations	57,644	66,913	9,269	16.08	9,269	11,804	21,073	NA	NA	NA	\$7.62	\$8.59	\$11.20
37-1000	Supervisors of Building and Grounds Cleaning and Maintenance Workers	5,134	6,159	1,025	19.96	1,025	899	1,924	NA	NA	NA	NA	NA	NA
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	2,522	3,039	517	20.50	517	602	1,119	High school diploma or equivalent	Less than 5 years	None	\$7.84	\$10.31	\$17.15
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	2,612	3,120	508	19.45	508	297	805	High school diploma or equivalent	Less than 5 years	None	\$7.90	\$11.29	\$22.05
37-2000	Building Cleaning and Pest Control Workers	37,757	43,645	5,888	15.59	5,888	7,186	13,074	NA	NA	NA	NA	NA	NA
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	32,788	37,662	4,874	14.87	4,874	6,170	11,044	Less than high school	None	Short-term on-the-job training	\$7.61	\$8.53	\$9.90
37-2012	Maids and Housekeeping Cleaners	4,554	5,511	957	21.01	957	903	1,860	Less than high school	None	Short-term on-the-job training	\$7.63	\$8.67	\$10.81
37-2021	Pest Control Workers	415	472	57	13.73	57	113	170	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.90	\$10.23	\$18.14
37-3000	Grounds Maintenance Workers	14,753	17,109	2,356	15.97	2,356	3,719	6,075	NA	NA	NA	NA	NA	NA
37-3011	Landscaping and Groundskeeping Workers	13,568	15,804	2,236	16.48	2,236	3,420	5,656	Less than high school	None	Short-term on-the-job training	\$7.61	\$8.57	\$10.70
37-3013	Tree Trimmers and Pruners	837	898	61	7.29	61	211	272	High school diploma or equivalent	None	Short-term on-the-job training	\$8.45	\$14.85	\$17.67

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				Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
											10%	50%	90%	
39-0000	Personal Care and Service Occupations	21,595	29,068	7,473	34.61	7,477	4,345	11,822	NA	NA	NA	\$7.63	\$8.59	\$11.03
39-1000	Supervisors of Personal Care and Service Workers	2,302	2,770	468	20.33	468	431	899	NA	NA	NA	NA	NA	NA
39-1011	Gaming Supervisors	207	253	46	22.22	46	42	88	High school diploma or equivalent	Less than 5 years	None	\$8.76	\$14.08	\$25.40
39-1012	Slot Supervisors	184	218	34	18.48	34	37	71	High school diploma or equivalent	Less than 5 years	None	\$8.07	\$11.35	\$20.27
39-1021	First-Line Supervisors of Personal Service Workers	1,911	2,299	388	20.30	388	352	740	High school diploma or equivalent	Less than 5 years	None	\$7.79	\$9.57	\$16.63
39-2000	Animal Care and Service Workers	485	587	102	21.03	102	122	224	NA	NA	NA	NA	NA	NA
39-2011	Animal Trainers	200	250	50	25.00	50	88	138	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.65	\$8.47	\$9.29
39-2021	Nonfarm Animal Caretakers	285	337	52	18.25	52	34	86	Less than high school	None	Short-term on-the-job training	\$7.60	\$8.49	\$9.40
39-3000	Entertainment Attendants and Related Workers	1,808	2,277	469	25.94	469	737	1,206	NA	NA	NA	NA	NA	NA
39-3011	Gaming Dealers	485	622	137	28.25	137	84	221	High school diploma or equivalent	None	Short-term on-the-job training	\$7.72	\$9.06	\$11.38
39-3021	Motion Picture Projectionists	180	219	39	21.67	39	71	110	Less than high school	None	Short-term on-the-job training	\$7.64	\$8.49	\$9.35
39-3031	Ushers, Lobby Attendants, and Ticket Takers	700	922	222	31.71	222	369	591	Less than high school	None	Short-term on-the-job training	\$7.62	\$8.49	\$9.38
39-3091	Amusement and Recreation Attendants	348	395	47	13.51	47	174	221	Less than high school	None	Short-term on-the-job training	\$7.63	\$8.62	\$10.68
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	68	85	17	25.00	17	34	51	High school diploma or equivalent	None	Short-term on-the-job training	\$8.46	\$10.15	\$11.30
39-4000	Funeral Service Workers	500	527	27	5.40	31	107	138	NA	NA	NA	NA	NA	NA
39-5000	Personal Appearance Workers	2,867	3,628	761	26.54	761	559	1,320	NA	NA	NA	NA	NA	NA
39-5012	Hairdressers, Hairstylists, and Cosmetologists	2,056	2,544	488	23.74	488	481	969	Postsecondary non-degree award	None	None	\$7.74	\$9.34	\$14.00
39-5092	Manicurists and Pedicurists	245	299	54	22.04	54	20	74	Postsecondary non-degree award	None	None	\$7.62	\$8.49	\$9.40
39-5094	Skincare Specialists	490	694	204	41.63	204	40	244	Postsecondary non-degree award	None	None	\$7.84	\$10.58	\$20.74
39-6000	Baggage Porters, Bellhops, and Concierges	474	546	72	15.19	72	118	190	NA	NA	NA	NA	NA	NA
39-6011	Baggage Porters and Bellhops	382	420	38	9.95	38	95	133	High school diploma or equivalent	None	Short-term on-the-job training	\$7.58	\$8.57	\$11.12

PUERTO RICO LONG TERM OCCUPATIONAL EMPLOYMENT PROJECTIONS

JOBS BY OCUPATION

2012-2022

SOC Code	Occupation*		2022		Change (2012-2022)		Openings		Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
	SOC Title	2012 Employment	Projected Employment	Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
												10%	50%	90%
39-6012	Concierges	92	126	34	36.96	34	23	57	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.58	\$8.58	\$12.74
39-7000	Tour and Travel Guides	421	478	57	13.54	57	203	260	NA	NA	NA	NA	NA	NA
39-9000	Other Personal Care and Service Workers	12,738	18,255	5,517	43.31	5,517	2,068	7,585	NA	NA	NA	NA	NA	NA
39-9011	Childcare Workers	4,406	5,731	1,325	30.07	1,325	1,295	2,620	High school diploma or equivalent	None	Short-term on-the-job training	\$7.59	\$8.44	\$9.28
39-9021	Personal Care Aides	6,277	10,073	3,796	60.47	3,796	449	4,245	Less than high school	None	Short-term on-the-job training	\$7.61	\$8.44	\$9.26
39-9032	Recreation Workers	1,414	1,651	237	16.76	237	167	404	Bachelor's degree	None	None	\$7.59	\$8.52	\$10.18
39-9099	Personal Care and Service Workers, All Other	379	476	97	25.59	97	106	203	High school diploma or equivalent	None	Short-term on-the-job training	\$7.66	\$8.72	\$11.17
41-0000	Sales and Related Occupations	124,135	142,708	18,573	14.96	18,629	38,663	57,292	NA	NA	NA	\$7.73	\$8.88	\$16.38
41-1000	Supervisors of Sales Workers	23,126	25,286	2,160	9.34	2,160	4,759	6,919	NA	NA	NA	NA	NA	NA
41-1011	First-Line Supervisors of Retail Sales Workers	20,087	22,131	2,044	10.18	2,044	4,371	6,415	High school diploma or equivalent	Less than 5 years	None	\$8.28	\$12.04	\$21.51
41-1012	First-Line Supervisors of Non-Retail Sales Workers	3,039	3,155	116	3.82	116	388	504	High school diploma or equivalent	Less than 5 years	None	\$10.47	\$17.83	\$35.89
41-2000	Retail Sales Workers	77,908	90,524	12,616	16.19	12,616	29,043	41,659	NA	NA	NA	NA	NA	NA
41-2011	Cashiers	29,549	33,482	3,933	13.31	3,933	12,775	16,708	Less than high school	None	Short-term on-the-job training	\$7.65	\$8.50	\$9.36
41-2012	Gaming Change Persons and Booth Cashiers	100	106	6	6.00	6	43	49	High school diploma or equivalent	None	Short-term on-the-job training	\$7.85	\$9.81	\$16.37
41-2021	Counter and Rental Clerks	1,599	1,836	237	14.82	237	409	646	Less than high school	None	Short-term on-the-job training	\$7.72	\$8.71	\$11.24
41-2022	Parts Salespersons	1,616	2,045	429	26.55	429	409	838	Less than high school	None	Moderate-term on-the-job training	\$7.70	\$8.84	\$14.39
41-2031	Retail Salespersons	45,044	53,055	8,011	17.78	8,011	15,407	23,418	Less than high school	None	Short-term on-the-job training	\$7.67	\$8.67	\$11.34
41-3000	Sales Representatives, Services	7,068	8,306	1,238	17.52	1,260	1,759	3,019	NA	NA	NA	NA	NA	NA
41-3011	Advertising Sales Agents	736	807	71	9.65	71	226	297	High school diploma or equivalent	None	Moderate-term on-the-job training	\$8.61	\$16.16	\$34.53
41-3021	Insurance Sales Agents	3,097	3,656	559	18.05	559	728	1,287	High school diploma or equivalent	None	Moderate-term on-the-job training	\$9.14	\$14.21	\$27.60
41-3031	Securities, Commodities, and Financial Services Sales Agents	552	679	127	23.01	127	129	256	Bachelor's degree	None	Moderate-term on-the-job training	\$11.37	\$22.88	NA

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2012-2022

SOC Code	Occupation* SOC Title	2012 Employment	2022 Projected Employment	Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
				Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
												10%	50%	90%
41-3041	Travel Agents	465	443	-22	-4.73	0	70	70	High school diploma or equivalent	None	Moderate-term on-the-job training	\$9.93	\$14.09	\$21.22
41-3099	Sales Representatives, Services, All Other	2,218	2,721	503	22.68	503	606	1,109	High school diploma or equivalent	None	Short-term on-the-job training	\$7.93	\$11.22	\$22.89
41-4000	Sales Representatives, Wholesale and Manufacturing	10,058	11,450	1,392	13.84	1,392	1,961	3,353	NA	NA	NA	NA	NA	NA
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	1,475	1,656	181	12.27	181	288	469	Bachelor's degree	None	Moderate-term on-the-job training	\$10.89	\$19.57	\$35.28
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	8,583	9,794	1,211	14.11	1,211	1,673	2,884	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.99	\$11.19	\$27.66
41-9000	Other Sales and Related Workers	5,975	7,142	1,167	19.53	1,201	1,141	2,342	NA	NA	NA	NA	NA	NA
41-9011	Demonstrators and Product Promoters	1,480	1,862	382	25.81	382	417	799	High school diploma or equivalent	None	Short-term on-the-job training	\$7.66	\$8.75	\$16.52
41-9021	Real Estate Brokers	283	352	69	24.38	69	27	96	High school diploma or equivalent	Less than 5 years	None	\$8.70	\$19.73	\$23.36
41-9022	Real Estate Sales Agents	993	1,235	242	24.37	242	93	335	High school diploma or equivalent	None	Long-term on-the-job training	\$8.33	\$20.66	\$28.98
41-9031	Sales Engineers	46	48	2	4.35	2	8	10	Bachelor's degree	None	Moderate-term on-the-job training	\$23.25	\$34.18	\$60.86
41-9041	Telemarketers	2,040	2,394	354	17.35	354	422	776	Less than high school	None	Short-term on-the-job training	\$7.84	\$8.86	\$12.29
41-9099	Sales and Related Workers, All Other	468	609	141	30.13	141	92	233	High school diploma or equivalent	None	None	\$7.77	\$8.81	\$11.46
43-0000	Office and Administrative Support Occupations	173,494	183,478	9,984	5.75	14,583	34,138	48,721	NA	NA	NA	\$7.82	\$9.38	\$17.72
43-1000	Supervisors of Office and Administrative Support Workers	14,400	16,220	1,820	12.64	1,820	3,417	5,237	NA	NA	NA	NA	NA	NA
43-1011	First-Line Supervisors of Office and Administrative Support Workers	14,400	16,220	1,820	12.64	1,820	3,417	5,237	High school diploma or equivalent	Less than 5 years	None	\$9.83	\$14.83	\$25.55
43-2000	Communications Equipment Operators	1,478	1,338	-140	-9.47	11	295	306	NA	NA	NA	NA	NA	NA
43-2011	Switchboard Operators, Including Answering Service	1,180	1,029	-151	-12.80	0	217	217	High school diploma or equivalent	None	Short-term on-the-job training	\$7.75	\$8.93	\$11.60
43-2021	Telephone Operators	298	309	11	3.69	11	78	89	High school diploma or equivalent	None	Short-term on-the-job training	\$7.69	\$8.89	\$15.88
43-3000	Financial Clerks	21,990	24,594	2,604	11.84	2,604	4,641	7,245	NA	NA	NA	NA	NA	NA

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SOC Code	Occupation* SOC Title	2012 Employment	2022 Projected Employment	Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
				Numeric	Percent	Growth	Due to Replacement	Total				10%	50%	90%
43-3011	Bill and Account Collectors	3,054	3,387	333	10.90	333	859	1,192	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.81	\$9.25	\$17.04
43-3021	Billing and Posting Clerks	4,322	5,223	901	20.85	901	795	1,696	High school diploma or equivalent	None	Short-term on-the-job training	\$7.78	\$9.21	\$14.08
43-3031	Bookkeeping, Accounting, and Auditing Clerks	9,250	10,365	1,115	12.05	1,115	850	1,965	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.79	\$9.28	\$15.43
43-3051	Payroll and Timekeeping Clerks	1,044	1,155	111	10.63	111	229	340	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.92	\$10.45	\$18.37
43-3061	Procurement Clerks	515	554	39	7.57	39	187	226	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.83	\$9.52	\$18.88
43-3071	Tellers	3,572	3,613	41	1.15	41	1,665	1,706	High school diploma or equivalent	None	Short-term on-the-job training	\$7.66	\$8.59	\$10.14
43-4000	Information and Record Clerks	26,379	29,403	3,024	11.46	3,261	6,539	9,800	NA	NA	NA	NA	NA	NA
43-4011	Brokerage Clerks	139	177	38	27.34	38	36	74	High school diploma or equivalent	None	Moderate-term on-the-job training	\$13.15	\$17.94	\$28.60
43-4041	Credit Authorizers, Checkers, and Clerks	690	628	-62	-8.99	0	81	81	High school diploma or equivalent	None	Short-term on-the-job training	\$8.78	\$10.70	\$15.90
43-4051	Customer Service Representatives	12,491	14,670	2,179	17.44	2,179	3,399	5,578	High school diploma or equivalent	None	Short-term on-the-job training	\$7.82	\$9.34	\$16.90
43-4061	Eligibility Interviewers, Government Programs	1,184	1,322	138	11.66	138	237	375	High school diploma or equivalent	None	Moderate-term on-the-job training	\$8.09	\$13.72	\$25.47
43-4071	File Clerks	676	631	-45	-6.66	0	155	155	High school diploma or equivalent	None	Short-term on-the-job training	\$7.80	\$9.20	\$13.64
43-4081	Hotel, Motel, and Resort Desk Clerks	824	1,053	229	27.79	229	390	619	High school diploma or equivalent	None	Short-term on-the-job training	\$7.66	\$8.59	\$10.00
43-4111	Interviewers, Except Eligibility and Loan	892	1,039	147	16.48	147	169	316	High school diploma or equivalent	None	Short-term on-the-job training	\$7.70	\$8.93	\$16.66
43-4121	Library Assistants, Clerical	125	147	22	17.60	22	55	77	High school diploma or equivalent	None	Short-term on-the-job training	\$7.73	\$8.71	\$10.68
43-4131	Loan Interviewers and Clerks	1,649	1,788	139	8.43	139	110	249	High school diploma or equivalent	None	Short-term on-the-job training	\$7.89	\$9.95	\$16.31

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SOC Code	Occupation* SOC Title	2012 Employment	2022 Projected Employment	Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
				Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
												10%	50%	90%
43-4141	New Accounts Clerks	520	494	-26	-5.00	0	134	134	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.66	\$8.92	\$11.57
43-4151	Order Clerks	322	315	-7	-2.17	0	85	85	High school diploma or equivalent	None	Short-term on-the-job training	\$7.75	\$8.95	\$14.82
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	1,039	1,051	12	1.15	12	262	274	High school diploma or equivalent	None	Short-term on-the-job training	\$7.95	\$10.78	\$18.50
43-4171	Receptionists and Information Clerks	3,981	4,332	351	8.82	351	1,071	1,422	High school diploma or equivalent	None	Short-term on-the-job training	\$7.68	\$8.65	\$10.65
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	551	489	-62	-11.25	0	73	73	High school diploma or equivalent	None	Short-term on-the-job training	\$7.77	\$9.29	\$21.14
43-4199	Information and Record Clerks, All Other	1,234	1,199	-35	-2.84	0	267	267	High school diploma or equivalent	None	Short-term on-the-job training	\$7.96	\$11.55	\$21.38
43-5000	Material Recording, Scheduling, Dispatching, and Distributing Workers	27,821	28,419	598	2.15	1,355	7,320	8,675	NA	NA	NA	NA	NA	NA
43-5011	Cargo and Freight Agents	382	347	-35	-9.16	0	103	103	High school diploma or equivalent	None	Short-term on-the-job training	\$8.11	\$10.86	\$14.65
43-5021	Couriers and Messengers	3,839	3,416	-423	-11.02	0	492	492	High school diploma or equivalent	None	Short-term on-the-job training	\$7.74	\$8.99	\$13.60
43-5031	Police, Fire, and Ambulance Dispatchers	278	304	26	9.35	26	80	106	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.64	\$8.73	\$12.86
43-5032	Dispatchers, Except Police, Fire, and Ambulance	976	1,101	125	12.81	125	282	407	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.76	\$9.19	\$22.58
43-5041	Meter Readers, Utilities	52	53	1	1.92	1	13	14	High school diploma or equivalent	None	Short-term on-the-job training	\$15.24	\$17.45	\$21.92
43-5051	Postal Service Clerks	566	468	-98	-17.31	0	86	86	High school diploma or equivalent	None	Short-term on-the-job training	\$14.90	\$25.88	\$26.45
43-5052	Postal Service Mail Carriers	1,048	930	-118	-11.26	0	365	365	High school diploma or equivalent	None	Short-term on-the-job training	\$15.01	\$27.16	\$27.17
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	503	429	-74	-14.71	0	37	37	High school diploma or equivalent	None	Short-term on-the-job training	\$14.89	\$25.48	\$26.44
43-5061	Production, Planning, and Expediting Clerks	1,125	1,152	27	2.40	27	281	308	High school diploma or equivalent	None	Moderate-term on-the-job training	\$8.18	\$12.95	\$26.13

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2012-2022

SOC Code	Occupation*		2022		Change (2012-2022)		Openings		Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
	SOC Title	2012 Employment	Projected Employment	Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
												10%	50%	90%
43-5071	Shipping, Receiving, and Traffic Clerks	2,976	2,967	-9	-0.30	0	782	782	High school diploma or equivalent	None	Short-term on-the-job training	\$7.74	\$8.99	\$15.21
43-5081	Stock Clerks and Order Fillers	15,368	16,429	1,061	6.90	1,061	4,643	5,704	Less than high school	None	Short-term on-the-job training	\$7.67	\$8.68	\$11.56
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	708	823	115	16.24	115	156	271	High school diploma or equivalent	None	Short-term on-the-job training	\$7.74	\$9.20	\$14.89
43-6000	Secretaries and Administrative Assistants	45,278	49,557	4,279	9.45	5,306	5,449	10,755	NA	NA	NA	NA	NA	NA
43-6011	Executive Secretaries and Executive Administrative Assistants	9,987	9,161	-826	-8.27	0	1,202	1,202	High school diploma or equivalent	Less than 5 years	None	\$8.55	\$13.30	\$21.88
43-6012	Legal Secretaries	4,436	4,235	-201	-4.53	0	534	534	High school diploma or equivalent	None	Moderate-term on-the-job training	\$8.12	\$12.17	\$17.36
43-6013	Medical Secretaries	6,460	8,513	2,053	31.78	2,053	777	2,830	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.70	\$8.72	\$12.10
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	24,395	27,648	3,253	13.33	3,253	2,936	6,189	High school diploma or equivalent	None	Short-term on-the-job training	\$7.79	\$9.16	\$14.52
43-9000	Other Office and Administrative Support Workers	36,148	33,947	-2,201	-6.09	226	6,477	6,703	NA	NA	NA	NA	NA	NA
43-9011	Computer Operators	778	711	-67	-8.61	0	75	75	High school diploma or equivalent	None	Moderate-term on-the-job training	\$8.28	\$10.74	\$15.55
43-9021	Data Entry Keyers	2,976	2,298	-678	-22.78	0	355	355	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.79	\$9.15	\$14.43
43-9022	Word Processors and Typists	5,410	3,907	-1,503	-27.78	0	194	194	High school diploma or equivalent	None	Short-term on-the-job training	\$8.33	\$10.90	\$15.87
43-9041	Insurance Claims and Policy Processing Clerks	1,053	1,227	174	16.52	174	279	453	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.99	\$10.81	\$17.20
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	135	125	-10	-7.41	0	31	31	High school diploma or equivalent	None	Short-term on-the-job training	\$7.98	\$10.67	\$18.82
43-9061	Office Clerks, General	23,801	23,655	-146	-0.61	0	5,000	5,000	High school diploma or equivalent	None	Short-term on-the-job training	\$7.73	\$8.96	\$13.85
43-9071	Office Machine Operators, Except Computer	222	201	-21	-9.46	0	53	53	High school diploma or equivalent	None	Short-term on-the-job training	\$7.80	\$9.44	\$17.13
43-9111	Statistical Assistants	460	489	29	6.30	29	126	155	Bachelor's degree	None	None	\$8.64	\$11.76	\$16.68

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2012-2022

SOC Code	Occupation*		2022		Change (2012-2022)		Openings		Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
	SOC Title	2012 Employment	Projected Employment	Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
												10%	50%	90%
43-9199	Office and Administrative Support Workers, All Other	1,275	1,296	21	1.65	21	357	378	High school diploma or equivalent	None	Short-term on-the-job training	\$7.84	\$10.13	\$17.81
45-0000	Farming, Fishing, and Forestry Occupations	8,629	10,673	2,044	23.69	2,069	2,513	4,582	NA	NA	NA	\$7.58	\$8.73	\$16.90
45-1000	Supervisors of Farming, Fishing, and Forestry Workers	498	587	89	17.87	89	105	194	NA	NA	NA	NA	NA	NA
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	498	587	89	17.87	89	105	194	High school diploma or equivalent	Less than 5 years	None	NA	NA	NA
45-2000	Agricultural Workers	7,956	9,927	1,971	24.77	1,980	2,379	4,359	NA	NA	NA	NA	NA	NA
45-2041	Graders and Sorters, Agricultural Products	260	335	75	28.85	75	46	121	Less than high school	None	Short-term on-the-job training	NA	NA	NA
45-2091	Agricultural Equipment Operators	695	915	220	31.65	220	211	431	Less than high school	None	Short-term on-the-job training	\$7.49	\$8.37	\$9.24
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	6,094	7,557	1,463	24.01	1,463	1,849	3,312	Less than high school	None	Short-term on-the-job training	\$7.54	\$8.48	\$11.08
45-2099	Agricultural Workers, All Other	116	148	32	27.59	32	35	67	Less than high school	None	Short-term on-the-job training	NA	NA	NA
45-4000	Forest, Conservation, and Logging Workers	175	159	-16	-9.14	0	29	29	NA	NA	NA	NA	NA	NA
47-0000	Construction and Extraction Occupations	53,902	56,431	2,529	4.69	3,242	9,100	12,342	NA	NA	NA	\$7.64	\$8.83	\$15.15
47-1000	Supervisors of Construction and Extraction Workers	5,588	5,741	153	2.74	153	603	756	NA	NA	NA	NA	NA	NA
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	5,588	5,741	153	2.74	153	603	756	High school diploma or equivalent	5 years or more	None	\$8.79	\$13.09	\$21.42
47-2000	Construction Trades Workers	37,446	39,388	1,942	5.19	2,446	6,765	9,211	NA	NA	NA	NA	NA	NA
47-2011	Boilermakers	142	103	-39	-27.46	0	64	64	High school diploma or equivalent	None	Apprenticeship	\$7.63	\$8.82	\$21.07
47-2021	Brickmasons and Blockmasons	492	504	12	2.44	12	53	65	High school diploma or equivalent	None	Apprenticeship	\$8.86	\$12.15	\$20.64
47-2022	Stonemasons	147	152	5	3.40	5	16	21	High school diploma or equivalent	None	Apprenticeship	\$7.69	\$8.93	\$13.65
47-2031	Carpenters	8,533	9,586	1,053	12.34	1,053	1,051	2,104	High school diploma or equivalent	None	Apprenticeship	\$7.61	\$8.64	\$10.90
47-2051	Cement Masons and Concrete Finishers	1,093	995	-98	-8.97	0	126	126	Less than high school	None	Moderate-term on-the-job training	\$7.62	\$8.64	\$10.97
47-2061	Construction Laborers	15,538	16,357	819	5.27	819	3,326	4,145	Less than high school	None	Short-term on-the-job training	\$7.57	\$8.47	\$9.46
47-2071	Paving, Surfacing, and Tamping Equipment Operators	180	168	-12	-6.67	0	26	26	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.94	\$10.35	\$25.40

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				Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
												10%	50%	90%
47-2073	Operating Engineers and Other Construction Equipment Operators	2,538	2,415	-123	-4.85	0	564	564	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.77	\$9.68	\$18.24
47-2081	Drywall and Ceiling Tile Installers	374	370	-4	-1.07	0	35	35	Less than high school	None	Moderate-term on-the-job training	\$7.98	\$10.28	\$16.28
47-2111	Electricians	1,995	2,034	39	1.95	39	376	415	High school diploma or equivalent	None	Apprenticeship	\$8.01	\$11.08	\$19.10
47-2121	Glaziers	102	89	-13	-12.75	0	24	24	High school diploma or equivalent	None	Apprenticeship	\$7.77	\$10.40	\$20.11
47-2131	Insulation Workers, Floor, Ceiling, and Wall	253	253	0	0.00	0	33	33	Less than high school	None	Short-term on-the-job training	\$7.70	\$9.49	\$16.25
47-2132	Insulation Workers, Mechanical	136	168	32	23.53	32	18	50	High school diploma or equivalent	None	Apprenticeship	\$7.66	\$8.63	\$10.32
47-2141	Painters, Construction and Maintenance	2,178	2,639	461	21.17	461	330	791	Less than high school	None	Moderate-term on-the-job training	\$7.65	\$8.78	\$14.08
47-2151	Pipelayers	403	389	-14	-3.47	0	50	50	Less than high school	None	Short-term on-the-job training	\$7.88	\$10.48	\$17.30
47-2152	Plumbers, Pipefitters, and Steamfitters	1,197	1,201	4	0.33	4	149	153	High school diploma or equivalent	None	Apprenticeship	\$7.92	\$10.06	\$13.07
47-2161	Plasterers and Stucco Masons	35	31	-4	-11.43	0	2	2	Less than high school	None	Long-term on-the-job training	NA	NA	NA
47-2171	Reinforcing Iron and Rebar Workers	349	280	-69	-19.77	0	59	59	High school diploma or equivalent	None	Apprenticeship	\$7.92	\$9.87	\$11.63
47-2181	Roofers	487	499	12	2.46	12	102	114	Less than high school	None	Moderate-term on-the-job training	\$7.53	\$8.46	\$9.99
47-2211	Sheet Metal Workers	92	96	4	4.35	4	17	21	High school diploma or equivalent	None	Apprenticeship	\$8.85	\$11.70	\$14.53
47-2221	Structural Iron and Steel Workers	951	838	-113	-11.88	0	308	308	High school diploma or equivalent	None	Apprenticeship	\$7.70	\$9.07	\$13.34
47-3000	Helpers, Construction Trades	4,343	4,179	-164	-3.78	40	680	720	NA	NA	NA	NA	NA	NA
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	150	135	-15	-10.00	0	23	23	Less than high school	None	Short-term on-the-job training	\$7.56	\$8.42	\$9.28
47-3012	Helpers--Carpenters	1,050	927	-123	-11.71	0	164	164	Less than high school	None	Short-term on-the-job training	\$7.57	\$8.39	\$9.21
47-3013	Helpers--Electricians	1,806	1,841	35	1.94	35	283	318	High school diploma or equivalent	None	Short-term on-the-job training	\$7.58	\$8.59	\$14.40

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				Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
											10%	50%	90%	
47-3015	Helpers--Pipefitters, Plumbers, Pipefitters, and Steamfitters	785	738	-47	-5.99	0	123	123	High school diploma or equivalent	None	Short-term on-the-job training	\$7.69	\$9.14	\$16.46
47-3019	Helpers, Construction Trades, All Other	489	473	-16	-3.27	0	77	77	Less than high school	None	Short-term on-the-job training	\$7.57	\$8.56	\$10.87
47-4000	Other Construction and Related Workers	6,437	7,026	589	9.15	592	1,031	1,623	NA	NA	NA	NA	NA	NA
47-4011	Construction and Building Inspectors	620	660	40	6.45	40	147	187	High school diploma or equivalent	5 years or more	Moderate-term on-the-job training	\$7.77	\$9.98	\$23.61
47-4021	Elevator Installers and Repairers	390	404	14	3.59	14	63	77	High school diploma or equivalent	None	Apprenticeship	NA	NA	NA
47-4051	Highway Maintenance Workers	5,153	5,663	510	9.90	510	768	1,278	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.54	\$8.36	\$9.18
47-4091	Segmental Pavers	46	43	-3	-6.52	0	8	8	High school diploma or equivalent	None	Moderate-term on-the-job training	NA	NA	NA
47-4099	Construction and Related Workers, All Other	129	130	1	0.78	1	24	25	High school diploma or equivalent	None	Moderate-term on-the-job training	\$8.90	\$11.32	\$21.54
47-5000	Extraction Workers	88	97	9	10.23	11	21	32	NA	NA	NA	NA	NA	NA
49-0000	Installation, Maintenance, and Repair Occupations	33,399	36,911	3,512	10.52	3,732	8,122	11,854	NA	NA	NA	\$7.92	\$11.14	\$21.83
49-1000	Supervisors of Installation, Maintenance, and Repair Workers	2,418	2,552	134	5.54	134	654	788	NA	NA	NA	NA	NA	NA
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	2,418	2,552	134	5.54	134	654	788	High school diploma or equivalent	Less than 5 years	None	\$9.33	\$17.97	\$31.03
49-2000	Electrical and Electronic Equipment Mechanics, Installers, and Repairers	3,184	3,460	276	8.67	325	617	942	NA	NA	NA	NA	NA	NA
49-2011	Computer, Automated Teller, and Office Machine Repairers	857	936	79	9.22	79	179	258	Some college, no degree	None	None	\$7.93	\$10.46	\$16.04
49-2021	Radio, Cellular, and Tower Equipment Installers and Repairs	287	333	46	16.03	46	39	85	Associate's degree	None	Moderate-term on-the-job training	\$8.56	\$13.81	\$18.45
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	438	556	118	26.94	118	60	178	Postsecondary non-degree award	None	Moderate-term on-the-job training	\$9.34	\$15.37	\$21.99
49-2091	Avionics Technicians	64	58	-6	-9.38	0	13	13	Associate's degree	None	None	\$15.93	\$25.34	\$42.80
49-2092	Electric Motor, Power Tool, and Related Repairers	137	133	-4	-2.92	0	24	24	Postsecondary non-degree award	None	Long-term on-the-job training	\$7.82	\$9.77	\$13.82
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	355	341	-14	-3.94	0	72	72	Postsecondary non-degree award	None	Long-term on-the-job training	\$8.42	\$14.63	\$24.88

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				Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
												10%	50%	90%
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	300	275	-25	-8.33	0	61	61	Postsecondary non-degree award	None	Long-term on-the-job training	\$9.35	\$15.99	\$21.81
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	197	215	18	9.14	18	69	87	Postsecondary non-degree award	None	None	\$7.62	\$8.74	\$13.44
49-2098	Security and Fire Alarm Systems Installers	424	474	50	11.79	50	86	136	High school diploma or equivalent	None	Moderate-term on-the-job training	\$8.53	\$16.55	\$28.09
49-3000	Vehicle and Mobile Equipment Mechanics, Installers, and Repairers	9,203	10,474	1,271	13.81	1,294	2,348	3,642	NA	NA	NA	NA	NA	NA
49-3011	Aircraft Mechanics and Service Technicians	439	416	-23	-5.24	0	118	118	Postsecondary non-degree award	None	None	\$10.01	\$24.38	\$35.67
49-3021	Automotive Body and Related Repairers	749	852	103	13.75	103	144	247	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.80	\$9.56	\$13.62
49-3023	Automotive Service Technicians and Mechanics	4,355	5,044	689	15.82	689	1,101	1,790	High school diploma or equivalent	None	Long-term on-the-job training	\$7.72	\$9.03	\$14.32
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	1,551	1,686	135	8.70	135	331	466	High school diploma or equivalent	None	Long-term on-the-job training	\$7.93	\$10.18	\$17.83
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	602	617	15	2.49	15	174	189	High school diploma or equivalent	None	Long-term on-the-job training	\$8.36	\$11.31	\$24.16
49-3051	Motorboat Mechanics and Service Technicians	71	73	2	2.82	2	15	17	High school diploma or equivalent	None	Long-term on-the-job training	\$7.99	\$11.87	\$19.84
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	74	79	5	6.76	5	16	21	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.57	\$8.59	\$14.39
49-3093	Tire Repairers and Changers	1,081	1,401	320	29.60	320	377	697	High school diploma or equivalent	None	Short-term on-the-job training	\$7.69	\$8.60	\$9.65
49-9000	Other Installation, Maintenance, and Repair Occupations	18,594	20,425	1,831	9.85	1,979	4,503	6,482	NA	NA	NA	NA	NA	NA
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	97	88	-9	-9.28	0	33	33	High school diploma or equivalent	None	Moderate-term on-the-job training	\$8.41	\$15.77	\$20.58
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	1,581	1,673	92	5.82	92	401	493	Postsecondary non-degree award	None	Long-term on-the-job training	\$7.86	\$9.64	\$18.11
49-9041	Industrial Machinery Mechanics	3,634	4,013	379	10.43	379	1,050	1,429	High school diploma or equivalent	None	Long-term on-the-job training	\$8.90	\$15.33	\$22.56

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				Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
												10%	50%	90%
49-9043	Maintenance Workers, Machinery	218	226	8	3.67	8	28	36	High school diploma or equivalent	None	Moderate-term on-the-job training	\$8.14	\$11.18	\$18.49
49-9051	Electrical Power-Line Installers and Repairers	1,326	1,189	-137	-10.33	0	459	459	High school diploma or equivalent	None	Long-term on-the-job training	\$17.51	\$20.42	\$22.48
49-9052	Telecommunications Line Installers and Repairers	1,860	2,242	382	20.54	382	456	838	High school diploma or equivalent	None	Long-term on-the-job training	\$8.11	\$16.86	\$22.91
49-9062	Medical Equipment Repairers	290	398	108	37.24	108	81	189	Associate's degree	None	Moderate-term on-the-job training	\$8.32	\$14.28	\$25.46
49-9069	Precision Instrument and Equipment Repairers, All Other	115	122	7	6.09	7	32	39	High school diploma or equivalent	None	Long-term on-the-job training	\$10.56	\$17.11	\$23.49
49-9071	Maintenance and Repair Workers, General	6,249	7,061	812	12.99	812	1,200	2,012	High school diploma or equivalent	None	Long-term on-the-job training	\$7.76	\$9.16	\$16.93
49-9098	Helpers--Installation, Maintenance, and Repair Workers	1,539	1,595	56	3.64	56	464	520	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.80	\$9.23	\$17.43
49-9099	Installation, Maintenance, and Repair Workers, All Other	1,165	1,270	105	9.01	105	195	300	High school diploma or equivalent	None	Moderate-term on-the-job training	\$8.00	\$11.53	\$20.88
51-0000	Production Occupations	72,684	70,193	-2,491	-3.43	2,545	13,859	16,404	NA	NA	NA	\$7.75	\$9.10	\$16.65
51-1000	Supervisors of Production Workers	4,692	4,402	-290	-6.18	0	660	660	NA	NA	NA	NA	NA	NA
51-1011	First-Line Supervisors of Production and Operating Workers	4,692	4,402	-290	-6.18	0	660	660	Postsecondary non-degree award	Less than 5 years	None	\$9.07	\$16.19	\$33.21
51-2000	Assemblers and Fabricators	14,951	15,123	172	1.15	1,075	2,324	3,399	NA	NA	NA	NA	NA	NA
51-2022	Electrical and Electronic Equipment Assemblers	1,723	1,467	-256	-14.86	0	209	209	High school diploma or equivalent	None	Short-term on-the-job training	\$7.72	\$9.14	\$13.80
51-2023	Electromechanical Equipment Assemblers	654	567	-87	-13.30	0	79	79	High school diploma or equivalent	None	Short-term on-the-job training	\$7.59	\$8.63	\$11.36
51-2041	Structural Metal Fabricators and Fitters	206	208	2	0.97	2	83	85	High school diploma or equivalent	None	Moderate-term on-the-job training	\$8.06	\$11.26	\$18.91
51-2091	Fiberglass Laminators and Fabricators	46	39	-7	-15.22	0	7	7	High school diploma or equivalent	None	Moderate-term on-the-job training	\$8.91	\$14.61	\$22.45
51-2092	Team Assemblers	6,701	6,192	-509	-7.60	0	1,059	1,059	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.77	\$9.00	\$11.46

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	SOC Title	2012 Employment	Projected Employment	Numeric	Percent	Growth	Due to Replacement	Total	2013 Percentile				10%	50%	90%
51-2099	Assemblers and Fabricators, All Other	5,144	6,216	1,072	20.84	1,072	813	1,885	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.61	\$8.57	\$10.29	
51-3000	Food Processing Workers	6,319	6,853	534	8.45	541	1,639	2,180	NA	NA	NA	NA	NA	NA	
51-3011	Bakers	2,350	2,576	226	9.62	226	570	796	Less than high school	None	Long-term on-the-job training	\$7.67	\$8.57	\$9.52	
51-3021	Butchers and Meat Cutters	2,001	2,224	223	11.14	223	494	717	Less than high school	None	Long-term on-the-job training	\$7.69	\$8.84	\$11.31	
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	314	349	35	11.15	35	77	112	Less than high school	None	Short-term on-the-job training	\$7.74	\$8.99	\$13.72	
51-3023	Slaughtering and Meat Packers	202	203	1	0.50	1	50	51	Less than high school	None	Short-term on-the-job training	\$7.61	\$8.52	\$9.57	
51-3092	Food Batchmakers	1,077	1,070	-7	-0.65	0	350	350	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.60	\$8.49	\$9.40	
51-3093	Food Cooking Machine Operators and Tenders	176	187	11	6.25	11	46	57	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.68	\$8.64	\$10.46	
51-4000	Metal Workers and Plastic Workers	6,976	6,616	-360	-5.16	237	1,224	1,461	NA	NA	NA	NA	NA	NA	
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	71	60	-11	-15.49	0	14	14	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.76	\$10.03	\$16.40	
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	31	24	-7	-22.58	0	6	6	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.56	\$8.66	\$11.13	
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	802	679	-123	-15.34	0	68	68	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.72	\$8.76	\$12.88	
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	35	31	-4	-11.43	0	8	8	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.81	\$9.22	\$11.38	
51-4041	Machinists	1,127	1,327	200	17.75	200	258	458	High school diploma or equivalent	None	Long-term on-the-job training	\$7.78	\$9.52	\$15.38	
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	1,369	1,086	-283	-20.67	0	166	166	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.80	\$9.35	\$14.16	
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	987	908	-79	-8.00	0	190	190	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.68	\$8.69	\$10.79	
51-4111	Tool and Die Makers	476	450	-26	-5.46	0	29	29	High school diploma or equivalent	None	Long-term on-the-job training	\$8.34	\$13.90	\$20.18	
51-4121	Welders, Cutters, Solderers, and Brazers	1,515	1,476	-39	-2.57	0	372	372	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.94	\$10.33	\$15.63	

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												10%	50%	90%
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	65	78	13	20.00	13	16	29	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.95	\$10.04	\$18.27
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	103	116	13	12.62	13	20	33	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.79	\$9.90	\$12.25
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	61	52	-9	-14.75	0	12	12	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.71	\$8.62	\$9.60
51-5100	Printing Workers	1,536	1,633	97	6.32	102	288	390	NA	NA	NA	NA	NA	NA
51-5111	Prepress Technicians and Workers	228	223	-5	-2.19	0	58	58	Postsecondary non-degree award	None	None	\$8.10	\$10.84	\$16.98
51-5112	Printing Press Operators	1,070	1,158	88	8.22	88	188	276	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.90	\$12.10	\$21.92
51-5113	Print Binding and Finishing Workers	238	252	14	5.88	14	42	56	High school diploma or equivalent	None	Short-term on-the-job training	\$7.58	\$8.61	\$11.28
51-6000	Textile, Apparel, and Furnishings Workers	11,649	9,514	-2,135	-18.33	122	969	1,091	NA	NA	NA	NA	NA	NA
51-6011	Laundry and Dry-Cleaning Workers	951	1,067	116	12.20	116	282	398	Less than high school	None	Short-term on-the-job training	\$7.66	\$8.62	\$10.20
51-6021	Pressers, Textile, Garment, and Related Materials	366	345	-21	-5.74	0	37	37	Less than high school	None	Short-term on-the-job training	\$7.53	\$8.35	\$9.17
51-6031	Sewing Machine Operators	9,158	7,124	-2,034	-22.21	0	439	439	Less than high school	None	Short-term on-the-job training	\$7.66	\$8.49	\$9.32
51-6051	Sewers, Hand	95	93	-2	-2.11	0	10	10	Less than high school	None	Moderate-term on-the-job training	NA	NA	NA
51-6062	Textile Cutting Machine Setters, Operators, and Tenders	197	130	-67	-34.01	0	32	32	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.61	\$8.44	\$9.28
51-6063	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	165	118	-47	-28.48	0	27	27	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.61	\$8.67	\$12.60
51-6093	Upholsterers	309	306	-3	-0.97	0	83	83	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.69	\$8.55	\$9.44
51-7000	Woodworkers	989	1,009	20	2.02	36	128	164	NA	NA	NA	NA	NA	NA
51-7011	Cabinetmakers and Bench Carpenters	673	658	-15	-2.23	0	54	54	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.71	\$8.63	\$9.66
51-7021	Furniture Finishers	68	67	-1	-1.47	0	11	11	High school diploma or equivalent	None	Short-term on-the-job training	\$7.57	\$8.49	\$10.02

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SOC Code	Occupation* SOC Title	2012 Employment	2022 Projected Employment	Change (2012-2022)		Openings			Typical education needed for entry	Work experience in related occupation	Typical on-the-job training	Hourly Wage (\$)		
				Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
											10%	50%	90%	
51-7099	Woodworkers, All Other	148	176	28	18.92	28	48	76	High school diploma or equivalent	None	Moderate-term on-the-job training	NA	NA	NA
51-8000	Plant and System Operators	2,239	2,110	-129	-5.76	11	789	800	NA	NA	NA	NA	NA	NA
51-8021	Stationary Engineers and Boiler Operators	158	148	-10	-6.33	0	48	48	High school diploma or equivalent	None	Long-term on-the-job training	\$8.70	\$18.11	\$22.52
51-8031	Water and Wastewater Treatment Plant and System Operators	1,410	1,304	-106	-7.52	0	494	494	High school diploma or equivalent	None	Long-term on-the-job training	\$8.02	\$11.49	\$17.63
51-8091	Chemical Plant and System Operators	133	113	-20	-15.04	0	49	49	High school diploma or equivalent	None	Long-term on-the-job training	\$11.94	\$14.62	\$20.83
51-8099	Plant and System Operators, All Other	444	445	1	0.23	1	165	166	High school diploma or equivalent	None	Long-term on-the-job training	\$8.02	\$11.42	\$17.74
51-9000	Other Production Occupations	23,333	22,933	-400	-1.71	421	5,838	6,259	NA	NA	NA	NA	NA	NA
51-9011	Chemical Equipment Operators and Tenders	573	509	-64	-11.17	0	200	200	High school diploma or equivalent	None	Moderate-term on-the-job training	\$9.54	\$15.76	\$26.10
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	59	55	-4	-6.78	0	21	21	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.94	\$16.12	\$22.39
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	200	192	-8	-4.00	0	56	56	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.62	\$8.50	\$9.44
51-9022	Grinding and Polishing Workers, Hand	70	55	-15	-21.43	0	20	20	Less than high school	None	Moderate-term on-the-job training	\$7.84	\$9.22	\$13.18
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	1,956	1,738	-218	-11.15	0	552	552	High school diploma or equivalent	None	Moderate-term on-the-job training	\$8.08	\$12.39	\$21.01
51-9031	Cutters and Trimmers, Hand	68	52	-16	-23.53	0	11	11	Less than high school	None	Short-term on-the-job training	\$7.54	\$8.36	\$9.17
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	151	133	-18	-11.92	0	25	25	High school diploma or equivalent	None	Short-term on-the-job training	\$8.04	\$11.50	\$17.63
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	4,005	3,933	-72	-1.80	0	880	880	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.91	\$10.32	\$24.59
51-9071	Jewelers and Precious Stone and Metal Workers	120	119	-1	-0.83	0	24	24	High school diploma or equivalent	None	Long-term on-the-job training	\$7.57	\$8.66	\$10.94
51-9081	Dental Laboratory Technicians	82	83	1	1.22	1	28	29	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.83	\$9.29	\$22.63

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				Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
												10%	50%	90%
51-9083	Ophthalmic Laboratory Technicians	912	896	-16	-1.75	0	308	308	High school diploma or equivalent	None	Moderate-term on-the-job training	\$8.05	\$10.47	\$14.43
51-9111	Packaging and Filling Machine Operators and Tenders	5,174	5,305	131	2.53	131	1,220	1,351	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.74	\$9.18	\$16.76
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	149	144	-5	-3.36	0	27	27	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.58	\$8.71	\$11.00
51-9122	Painters, Transportation Equipment	48	52	4	8.33	4	9	13	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.74	\$8.86	\$13.40
51-9123	Painting, Coating, and Decorating Workers	32	35	3	9.38	3	6	9	Less than high school	None	Moderate-term on-the-job training	NA	NA	NA
51-9191	Adhesive Bonding Machine Operators and Tenders	80	74	-6	-7.50	0	19	19	High school diploma or equivalent	None	Moderate-term on-the-job training	\$8.00	\$10.63	\$17.03
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	332	316	-16	-4.82	0	78	78	Less than high school	None	Moderate-term on-the-job training	\$7.76	\$9.19	\$14.70
51-9196	Paper Goods Machine Setters, Operators, and Tenders	239	227	-12	-5.02	0	21	21	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.82	\$9.38	\$13.97
51-9198	Helpers--Production Workers	1,720	1,652	-68	-3.95	0	297	297	Less than high school	None	Short-term on-the-job training	\$7.72	\$8.94	\$13.59
51-9199	Production Workers, All Other	4,929	5,181	252	5.11	252	1,285	1,537	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.81	\$9.62	\$17.58
53-0000	Transportation and Material Moving Occupations	57,551	63,787	6,236	10.84	6,474	13,443	19,917	NA	NA	NA	\$7.68	\$8.77	\$14.78
53-1000	Supervisors of Transportation and Material Moving Workers	2,575	2,821	246	9.55	246	708	954	NA	NA	NA	NA	NA	NA
53-1011	Aircraft Cargo Handling Supervisors	98	103	5	5.10	5	27	32	High school diploma or equivalent	Less than 5 years	None	\$10.64	\$16.34	\$26.73
53-1021	First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	1,025	1,131	106	10.34	106	282	388	High school diploma or equivalent	Less than 5 years	None	\$8.52	\$14.50	\$23.60
53-1031	First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators	1,452	1,587	135	9.30	135	399	534	High school diploma or equivalent	Less than 5 years	None	\$8.28	\$13.16	\$22.74
53-2000	Air Transportation Workers	477	491	14	2.94	29	143	172	NA	NA	NA	NA	NA	NA
53-2011	Airline Pilots, Copilots, and Flight Engineers	111	105	-6	-5.41	0	32	32	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training	NA	NA	NA

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				Numeric	Percent	Growth	Due to Replacement	Total				2013 Percentile		
											10%	50%	90%	
53-2012	Commercial Pilots	103	114	11	10.68	11	30	41	High school diploma or equivalent	None	Moderate-term on-the-job training	NA	NA	NA
53-2021	Air Traffic Controllers	130	148	18	13.85	18	57	75	Associate's degree	None	Long-term on-the-job training	\$31.28	\$48.03	\$64.04
53-3000	Motor Vehicle Operators	24,712	28,122	3,410	13.80	3,410	3,932	7,342	NA	NA	NA	NA	NA	NA
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	317	379	62	19.56	62	51	113	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.57	\$8.41	\$9.25
53-3021	Bus Drivers, Transit and Intercity	883	932	49	5.55	49	162	211	High school diploma or equivalent	None	Moderate-term on-the-job training	\$8.61	\$13.34	\$17.58
53-3022	Bus Drivers, School or Special Client	1,493	2,141	648	43.40	648	274	922	High school diploma or equivalent	None	Short-term on-the-job training	\$7.62	\$8.50	\$9.43
53-3031	Driver/Sales Workers	3,306	3,909	603	18.24	603	529	1,132	High school diploma or equivalent	None	Short-term on-the-job training	\$7.66	\$8.77	\$20.94
53-3032	Heavy and Tractor-Trailer Truck Drivers	9,727	10,626	899	9.24	899	1,556	2,455	Postsecondary non-degree award	None	Short-term on-the-job training	\$7.66	\$8.68	\$11.31
53-3033	Light Truck or Delivery Services Drivers	6,432	7,067	635	9.87	635	1,029	1,664	High school diploma or equivalent	None	Short-term on-the-job training	\$7.67	\$8.73	\$13.79
53-3041	Taxi Drivers and Chauffeurs	2,373	2,883	510	21.49	510	280	790	Less than high school	None	Short-term on-the-job training	\$7.65	\$8.69	\$12.02
53-3099	Motor Vehicle Operators, All Other	181	185	4	2.21	4	51	55	High school diploma or equivalent	None	Short-term on-the-job training	\$8.63	\$14.35	\$16.12
53-5000	Water Transportation Workers	281	267	-14	-4.98	1	128	129	NA	NA	NA	NA	NA	NA
53-5011	Sailors and Marine Oilers	104	100	-4	-3.85	0	47	47	Less than high school	None	Moderate-term on-the-job training	\$7.87	\$15.56	\$21.78
53-5021	Captains, Mates, and Pilots of Water Vessels	141	137	-4	-2.84	0	65	65	Bachelor's degree	None	None	\$8.45	\$14.76	\$39.84
53-6000	Other Transportation Workers	2,875	3,157	282	9.81	301	1,155	1,456	NA	NA	NA	NA	NA	NA
53-6021	Parking Lot Attendants	1,781	2,004	223	12.52	223	854	1,077	Less than high school	None	Short-term on-the-job training	\$7.60	\$8.43	\$9.26
53-6031	Automotive and Watercraft Service Attendants	738	802	64	8.67	64	212	276	Less than high school	None	Short-term on-the-job training	\$7.72	\$8.58	\$9.45
53-6051	Transportation Inspectors	55	63	8	14.55	8	18	26	High school diploma or equivalent	None	Moderate-term on-the-job training	\$7.85	\$13.25	\$54.24
53-6099	Transportation Workers, All Other	61	67	6	9.84	6	24	30	High school diploma or equivalent	None	Short-term on-the-job training	\$7.71	\$8.79	\$12.08
53-7000	Material Moving Workers	26,613	28,909	2,296	8.63	2,485	7,372	9,857	NA	NA	NA	NA	NA	NA

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											10%	50%	90%	
53-7011	Conveyor Operators and Tenders	202	222	20	9.90	20	57	77	Less than high school	None	Short-term on-the-job training	\$7.78	\$9.31	\$12.38
53-7021	Crane and Tower Operators	154	141	-13	-8.44	0	53	53	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$8.31	\$12.59	\$26.72
53-7032	Excavating and Loading Machine and Dragline Operators	320	322	2	0.62	2	26	28	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$7.73	\$9.14	\$14.35
53-7051	Industrial Truck and Tractor Operators	3,091	2,973	-118	-3.82	0	710	710	Less than high school	None	Short-term on-the-job training	\$7.70	\$8.86	\$14.36
53-7061	Cleaners of Vehicles and Equipment	1,022	1,209	187	18.30	187	284	471	Less than high school	None	Short-term on-the-job training	\$7.59	\$8.45	\$9.36
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	14,492	15,751	1,259	8.69	1,259	4,489	5,748	Less than high school	None	Short-term on-the-job training	\$7.69	\$8.78	\$13.55
53-7063	Machine Feeders and Offbearers	265	216	-49	-18.49	0	53	53	Less than high school	None	Short-term on-the-job training	\$7.88	\$9.18	\$13.74
53-7064	Packers and Packagers, Hand	3,736	3,885	149	3.99	149	980	1,129	Less than high school	None	Short-term on-the-job training	\$7.63	\$8.46	\$9.31
53-7072	Pump Operators, Except Wellhead Pumpers	106	103	-3	-2.83	0	37	37	Less than high school	None	Moderate-term on-the-job training	\$8.54	\$12.78	\$17.33
53-7081	Refuse and Recyclable Material Collectors	3,015	3,853	838	27.79	838	626	1,464	Less than high school	None	Short-term on-the-job training	\$7.67	\$8.49	\$9.33
53-7121	Tank Car, Truck, and Ship Loaders	56	54	-2	-3.57	0	16	16	Less than high school	None	Short-term on-the-job training	\$7.49	\$8.38	\$9.45
53-7199	Material Moving Workers, All Other	128	157	29	22.66	29	35	64	Less than high school	None	Short-term on-the-job training	\$7.54	\$8.55	\$16.22

*Data listed for only occupations providing 30 or more jobs and detail may not add to totals due to the suppression of confidential data.

**Total, All Occupations include self-employed not-incorporated.

NA = Not Available



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