

## RANKING OCCUPATIONAL GROWTH DURING AND AFTER THE RECESSION IN THE NORTHERN TIER

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The previously released “Top Jobs” report identified occupations with the most growth potential in the Northern Tier by analyzing future projections. This report changes perspective and looks back at how occupations grew during and after the national economic recession which began in December 2007. Over half a decade later, many jobseekers and employers alike are still reeling from the effects of the recession. While the labor market suffered overall, there were pockets of growth even in the midst of such a woeful economic climate.

This document uses data from Economic Modeling Specialists, Incorporated to identify which occupations had the largest and fastest growth from 2008 to 2010 and from 2010 to 2012. The former time period reveals occupations that were resilient to the immediate effects of the recession, and the latter identifies occupations that rebounded after the recession ended. Occupations that demonstrated a resilience to and ability to rebound from the recession (i.e., occupations that were identified in both time periods) may prove to be viable job destinations for jobseekers. While there is no guarantee that these “recession resistant” occupations will continue to thrive, there is a strong chance that past historical trends will evolve into future growth, regardless of how the economy may change.

Please note – this document only considers new jobs when analyzing growth trends. While there were job openings due to replacement needs across all occupational groupings, the intent of this report is to focus on those that were able to flourish during and after the recession by adding new employment. Therefore, these occupations may prove to be secure job positions moving forward.

Similar to the original Top Jobs report, there are three (3) categories of jobs to consider:

1. Occupations that typically require **less than 4 years of postsecondary education** (from on-the-job training to an associate’s degree),
2. Occupations that typically require a **Bachelor’s degree or higher**, and
3. **Higher Paying Occupations** which have median earnings of at least \$20.00/hour.

Higher paying occupations do not have an education filter. In the original report, the first two categories had at least 100 jobs, but that is not the case here.

The following tables identify occupations in each category and time period by two separate methods:

1. Occupations with the largest **NET** growth
2. Occupations with the **FASTEST** growth by percentage.

Occupations common to both time periods are highlighted. Again, these may be considered the most recession resistant occupations in the region.

For additional information, please contact:

Northern Tier Regional Planning & Development Commission  
312 Main Street  
Towanda, PA 18848  
570.265.9103 (P)  
570.265.7585 (F)



## Ranking Occupational Growth During and After the Recession

### Occupations that Require Less than 4 Years of Postsecondary Education with the Most Job Growth from 2008 to 2010

SOC	Occupation	Annual Change	Annual Percent Change	Net Change	Percent Change	Median Wages	Education Level
53-3032	Heavy and Tractor-Trailer Truck Drivers	150	11.9%	299	23.8%	\$18.93	Short-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	45	11.8%	90	23.7%	\$18.53	Moderate-term on-the-job training
39-9021	Personal Care Aides	45	10.1%	89	20.2%	\$9.22	Short-term on-the-job training
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	42	3.8%	84	7.6%	\$8.27	Short-term on-the-job training
41-2011	Cashiers	42	1.9%	84	3.7%	\$8.54	Short-term on-the-job training
47-2061	Construction Laborers	33	5.1%	65	10.1%	\$14.20	Short-term on-the-job training
31-1011	Home Health Aides	30	4.4%	60	8.8%	\$8.61	Short-term on-the-job training
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	25	7.0%	50	14.1%	\$24.53	Work experience in a related occupation
29-2041	Emergency Medical Technicians and Paramedics	24	23.5%	48	47.1%	\$10.62	Postsecondary non-degree award
43-9061	Office Clerks, General	21	1.5%	41	3.0%	\$12.42	Short-term on-the-job training
47-5081	Helpers--Extraction Workers	19	132.1%	37	264.3%	\$14.33	Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	17	1.8%	34	3.5%	\$14.72	Short-term on-the-job training
35-3011	Bartenders	17	4.6%	33	9.1%	\$8.32	Short-term on-the-job training
29-1111	Registered Nurses	14	1.2%	27	2.5%	\$25.52	Associate's degree
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	13	8.9%	25	17.9%	\$18.56	Postsecondary non-degree award
47-5021	Earth Drillers, Except Oil and Gas	12	85.7%	24	171.4%	\$17.71	Moderate-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	11	2.6%	22	5.2%	\$8.64	Short-term on-the-job training
11-9013	Farmers, Ranchers, and Other Agricultural Managers	10	2.1%	19	4.2%	\$10.03	Work experience in a related occupation
53-3022	Bus Drivers, School or Special Client	10	2.0%	19	4.0%	\$11.17	Moderate-term on-the-job training
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	10	1.0%	19	2.1%	\$11.45	Short-term on-the-job training
49-9041	Industrial Machinery Mechanics	9	3.6%	18	7.2%	\$18.90	Long-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	9	1.3%	18	2.7%	\$14.66	Moderate-term on-the-job training
37-3011	Landscaping and Groundskeeping Workers	9	1.8%	17	3.5%	\$9.02	Short-term on-the-job training
29-2061	Licensed Practical and Licensed Vocational Nurses	9	1.7%	17	3.3%	\$17.38	Postsecondary non-degree award

Occupations that appear on the corresponding 2010-2012 table are highlighted

## Ranking Occupational Growth During and After the Recession

### Occupations that Require Less than 4 Years of Postsecondary Education with the Most Job Growth from 2010 to 2012

SOC	Occupation	Annual Change	Annual Percent Change	Net Change	Percent Change	Median Wages	Education Level
53-3032	Heavy and Tractor-Trailer Truck Drivers	266	17.1%	531	34.2%	\$18.93	Short-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	139	29.6%	278	59.1%	\$18.53	Moderate-term on-the-job training
41-2011	Cashiers	98	4.2%	195	8.3%	\$8.54	Short-term on-the-job training
47-2061	Construction Laborers	85	12.0%	170	24.1%	\$14.20	Short-term on-the-job training
33-9032	Security Guards	68	37.6%	136	75.1%	\$11.70	Short-term on-the-job training
43-9061	Office Clerks, General	68	4.8%	136	9.7%	\$12.42	Short-term on-the-job training
41-2031	Retail Salespersons	67	4.2%	134	8.4%	\$11.55	Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	55	5.5%	110	11.1%	\$14.72	Short-term on-the-job training
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	48	11.7%	95	23.5%	\$24.53	Work experience in a related occupation
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and	48	7.5%	95	15.1%	\$24.42	Moderate-term on-the-job training
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	38	3.6%	75	7.1%	\$14.24	Short-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	35	5.0%	69	10.0%	\$14.66	Moderate-term on-the-job training
49-9041	Industrial Machinery Mechanics	34	12.5%	67	24.9%	\$18.90	Long-term on-the-job training
49-9071	Maintenance and Repair Workers, General	34	4.8%	67	9.7%	\$16.16	Moderate-term on-the-job training
35-3031	Waiters and Waitresses	33	4.0%	65	8.0%	\$8.30	Short-term on-the-job training
53-3033	Light Truck or Delivery Services Drivers	32	9.5%	63	18.9%	\$13.29	Short-term on-the-job training
41-2021	Counter and Rental Clerks	29	29.0%	58	58.0%	\$12.77	Short-term on-the-job training
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	27	16.1%	53	32.1%	\$18.56	Postsecondary non-degree award
47-5011	Derrick Operators, Oil and Gas	26	39.2%	51	78.5%	\$26.70	Short-term on-the-job training
47-5012	Rotary Drill Operators, Oil and Gas	25	38.9%	49	77.8%	\$22.63	Moderate-term on-the-job training
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	23	45.1%	46	90.2%	\$19.99	Long-term on-the-job training
49-9051	Electrical Power-Line Installers and Repairers	21	29.2%	42	58.3%	\$26.36	Long-term on-the-job training
43-4051	Customer Service Representatives	21	3.5%	41	6.9%	\$14.00	Short-term on-the-job training
41-1011	First-Line Supervisors of Retail Sales Workers	20	3.2%	39	6.4%	\$15.21	Work experience in a related occupation

Occupations that appear on the corresponding 2008-2010 table are highlighted

## Ranking Occupational Growth During and After the Recession

### Occupations that Require Less than 4 Years of Postsecondary Education with the Fastest Job Growth by Percentage from 2008 to 2010

SOC	Occupation	Annual Change	Annual Percent Change	Net Change	Percent Change	Median Wages	Education Level
47-5081	Helpers--Extraction Workers	19	132.1%	37	264.3%	\$14.33	Short-term on-the-job training
47-5021	Earth Drillers, Except Oil and Gas	12	85.7%	24	171.4%	\$17.71	Moderate-term on-the-job training
53-7021	Crane and Tower Operators	3	25.0%	6	50.0%	\$19.37	Long-term on-the-job training
29-2041	Emergency Medical Technicians and Paramedics	24	23.5%	48	47.1%	\$10.62	Postsecondary non-degree award
27-4021	Photographers	7	22.4%	13	44.8%	\$10.36	Long-term on-the-job training
31-2022	Physical Therapist Aides	5	19.2%	10	38.5%	\$9.73	Moderate-term on-the-job training
17-3031	Surveying and Mapping Technicians	4	18.4%	7	36.8%	\$13.02	Moderate-term on-the-job training
31-2021	Physical Therapist Assistants	8	17.4%	16	34.8%	\$21.22	Associate's degree
33-9021	Private Detectives and Investigators	3	15.8%	6	31.6%	\$17.24	Work experience in a related occupation
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	3	14.7%	5	29.4%	\$14.59	Moderate-term on-the-job training
31-2011	Occupational Therapy Assistants	2	14.3%	4	28.6%	\$19.97	Associate's degree
51-8092	Gas Plant Operators	3	13.9%	5	27.8%	\$25.40	Long-term on-the-job training
53-7071	Gas Compressor and Gas Pumping Station Operators	5	13.2%	9	26.5%	\$18.88	Moderate-term on-the-job training
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	5	12.2%	10	24.4%	\$19.99	Long-term on-the-job training
53-3032	Heavy and Tractor-Trailer Truck Drivers	150	11.9%	299	23.8%	\$18.93	Short-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	45	11.8%	90	23.7%	\$18.53	Moderate-term on-the-job training
43-4081	Hotel, Motel, and Resort Desk Clerks	7	11.2%	13	22.4%	\$9.28	Short-term on-the-job training
17-3011	Architectural and Civil Drafters	2	10.5%	4	21.1%	\$19.21	Associate's degree
53-7032	Excavating and Loading Machine and Dragline Operators	5	10.5%	9	20.9%	\$17.14	Moderate-term on-the-job training
39-9021	Personal Care Aides	45	10.1%	89	20.2%	\$9.22	Short-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	6	9.6%	11	19.3%	\$19.64	Moderate-term on-the-job training
43-4199	Information and Record Clerks, All Other	2	9.1%	4	18.2%	\$18.33	Short-term on-the-job training
49-9051	Electrical Power-Line Installers and Repairers	6	9.0%	11	18.0%	\$26.36	Long-term on-the-job training
39-2011	Animal Trainers	4	9.0%	7	17.9%	\$13.67	Moderate-term on-the-job training
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	13	8.9%	25	17.9%	\$18.56	Postsecondary non-degree award

Occupations that appear on the corresponding 2010-2012 table are highlighted

## Ranking Occupational Growth During and After the Recession

### Occupations that Require Less than 4 Years of Postsecondary Education with the Fastest Job Growth by Percentage from 2010 to 2012

SOC	Occupation	Annual Change	Annual Percent Change	Net Change	Percent Change	Median Wages	Education Level
27-4011	Audio and Video Equipment Technicians	11	87.5%	21	175.0%	\$23.13	Postsecondary non-degree award
49-3011	Aircraft Mechanics and Service Technicians	10	55.9%	19	111.8%	\$21.10	Postsecondary non-degree award
47-5021	Earth Drillers, Except Oil and Gas	19	50.0%	38	100.0%	\$17.71	Moderate-term on-the-job training
49-9096	Riggers	6	45.8%	11	91.7%	\$26.11	Short-term on-the-job training
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	23	45.1%	46	90.2%	\$19.99	Long-term on-the-job training
19-4041	Geological and Petroleum Technicians	7	40.6%	13	81.3%	\$21.55	Associate's degree
47-5011	Derrick Operators, Oil and Gas	26	39.2%	51	78.5%	\$26.70	Short-term on-the-job training
47-5012	Rotary Drill Operators, Oil and Gas	25	38.9%	49	77.8%	\$22.63	Moderate-term on-the-job training
33-9032	Security Guards	68	37.6%	136	75.1%	\$11.70	Short-term on-the-job training
47-5081	Helpers--Extraction Workers	19	37.3%	38	74.5%	\$14.33	Short-term on-the-job training
53-7073	Wellhead Pumpers	9	36.0%	18	72.0%	\$18.78	Moderate-term on-the-job training
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	5	35.7%	10	71.4%	\$32.49	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	19	34.9%	37	69.8%	\$24.63	Long-term on-the-job training
17-3031	Surveying and Mapping Technicians	9	34.6%	18	69.2%	\$13.02	Moderate-term on-the-job training
33-9021	Private Detectives and Investigators	9	34.0%	17	68.0%	\$17.24	Work experience in a related occupation
17-3024	Electro-Mechanical Technicians	5	33.3%	10	66.7%	\$18.64	Associate's degree
47-5042	Mine Cutting and Channeling Machine Operators	5	32.1%	9	64.3%	\$21.58	Moderate-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	139	29.6%	278	59.1%	\$18.53	Moderate-term on-the-job training
49-9051	Electrical Power-Line Installers and Repairers	21	29.2%	42	58.3%	\$26.36	Long-term on-the-job training
41-2021	Counter and Rental Clerks	29	29.0%	58	58.0%	\$12.77	Short-term on-the-job training
47-5051	Rock Splitters, Quarry	10	27.1%	19	54.3%	\$17.95	Moderate-term on-the-job training
47-5099	Extraction Workers, All Other	4	26.9%	7	53.8%	\$20.82	Moderate-term on-the-job training
39-6011	Baggage Porters and Bellhops	4	26.7%	8	53.3%	\$8.60	Short-term on-the-job training
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	6	25.0%	11	50.0%	\$14.59	Moderate-term on-the-job training
53-7021	Crane and Tower Operators	5	25.0%	9	50.0%	\$19.37	Long-term on-the-job training

Occupations that appear on the corresponding 2008-2010 table are highlighted

## Ranking Occupational Growth During and After the Recession

### Occupations that Require a Bachelor's Degree or Higher with the Most Job Growth from 2008 to 2010

SOC	Occupation	Annual Change	Annual Percent Change	Net Change	Percent Change	Median Wages	Education Level
29-1123	Physical Therapists	16	14.5%	31	29.0%	\$37.77	First professional degree
29-1122	Occupational Therapists	9	11.2%	17	22.4%	\$27.48	Master's degree
23-1011	Lawyers	6	4.0%	12	7.9%	\$33.01	First professional degree
13-2011	Accountants and Auditors	6	1.7%	12	3.4%	\$25.07	Bachelor's degree
27-3011	Radio and Television Announcers	5	22.5%	9	45.0%	\$9.85	Bachelor's degree
17-2051	Civil Engineers	5	10.7%	9	21.4%	\$34.17	Bachelor's degree
13-1161	Market Research Analysts and Marketing Specialists	4	5.3%	8	10.7%	\$20.24	Bachelor's degree
39-9032	Recreation Workers	4	2.3%	8	4.6%	\$9.38	Bachelor's degree
29-1011	Chiropractors	4	12.1%	7	24.1%	\$39.40	First professional degree
29-1127	Speech-Language Pathologists	4	6.3%	7	12.5%	\$25.53	Master's degree
21-1014	Mental Health Counselors	4	3.2%	7	6.5%	\$18.32	Master's degree
21-1023	Mental Health and Substance Abuse Social Workers	4	3.2%	7	6.3%	\$15.14	Master's degree
17-1011	Architects, Except Landscape and Naval	3	16.7%	6	33.3%	\$29.75	Bachelor's degree
25-2021	Elementary School Teachers, Except Special Education	3	0.3%	6	0.6%	\$27.23	Bachelor's degree
21-1011	Substance Abuse and Behavioral Disorder Counselors	3	3.2%	5	6.3%	\$13.75	Bachelor's degree
27-3091	Interpreters and Translators	2	10.5%	4	21.1%	\$21.36	Bachelor's degree
29-1131	Veterinarians	2	4.7%	4	9.3%	\$37.34	First professional degree
11-9151	Social and Community Service Managers	2	3.2%	4	6.3%	\$23.60	Bachelor's degree
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary School	2	1.6%	4	3.1%	\$27.36	Bachelor's degree
25-1099	Postsecondary Teachers	2	1.1%	4	2.2%	\$40.07	Doctoral degree
21-1021	Child, Family, and School Social Workers	2	1.1%	4	2.2%	\$13.86	Bachelor's degree

Occupations that appear on the corresponding 2010-2012 table are highlighted

## Ranking Occupational Growth During and After the Recession

### Occupations that Require a Bachelor's Degree or Higher with the Most Job Growth from 2010 to 2012

SOC	Occupation	Annual Change	Annual Percent Change	Net Change	Percent Change	Median Wages	Education Level
11-1021	General and Operations Managers	31	5.9%	61	11.7%	\$37.58	Bachelor's or higher degree, plus work experience
13-2011	Accountants and Auditors	12	3.2%	23	6.4%	\$25.07	Bachelor's degree
17-2171	Petroleum Engineers	11	45.7%	21	91.3%	\$57.13	Bachelor's degree
13-1161	Market Research Analysts and Marketing Specialists	10	12.0%	20	24.1%	\$20.24	Bachelor's degree
13-1051	Cost Estimators	8	9.4%	16	18.8%	\$27.46	Bachelor's degree
17-2051	Civil Engineers	8	14.7%	15	29.4%	\$34.17	Bachelor's degree
29-1123	Physical Therapists	6	4.0%	11	8.0%	\$37.77	First professional degree
17-1022	Surveyors	5	29.4%	10	58.8%	\$23.42	Bachelor's degree
17-2141	Mechanical Engineers	5	8.7%	9	17.3%	\$34.58	Bachelor's degree
27-3091	Interpreters and Translators	4	17.4%	8	34.8%	\$21.36	Bachelor's degree
11-9041	Architectural and Engineering Managers	4	14.8%	8	29.6%	\$53.17	Bachelor's or higher degree, plus work experience
13-1078	Human Resources, Training, and Labor Relations Specialists, All Other	4	3.7%	8	7.5%	\$22.13	Bachelor's degree
15-1142	Network and Computer Systems Administrators	4	4.6%	7	9.2%	\$29.31	Bachelor's degree
13-1111	Management Analysts	4	3.8%	7	7.7%	\$29.52	Bachelor's or higher degree, plus work experience
11-1011	Chief Executives	4	2.6%	7	5.1%	\$50.51	Bachelor's or higher degree, plus work experience
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific	3	8.3%	6	16.7%	\$30.33	Bachelor's degree
11-2022	Sales Managers	3	4.9%	6	9.8%	\$40.93	Bachelor's or higher degree, plus work experience
23-1011	Lawyers	3	1.8%	6	3.7%	\$33.01	First professional degree
17-2081	Environmental Engineers	3	15.6%	5	31.3%	\$27.06	Bachelor's degree
15-1133	Software Developers, Systems Software	3	7.6%	5	15.2%	\$39.17	Bachelor's degree
29-1011	Chiropractors	3	6.9%	5	13.9%	\$39.40	First professional degree
15-1121	Computer Systems Analysts	3	4.2%	5	8.5%	\$33.89	Bachelor's degree
11-3031	Financial Managers	3	2.7%	5	5.5%	\$35.36	Bachelor's or higher degree, plus work experience

Occupations that appear on the corresponding 2008-2010 table are highlighted

## Ranking Occupational Growth During and After the Recession

### Occupations that Require a Bachelor's Degree or Higher with the Fastest Job Growth by Percentage from 2008 to 2010

SOC	Occupation	Annual Change	Annual Percent Change	Net Change	Percent Change	Median Wages	Education Level
27-3011	Radio and Television Announcers	5	22.5%	9	45.0%	\$9.85	Bachelor's degree
17-1011	Architects, Except Landscape and Naval	3	16.7%	6	33.3%	\$29.75	Bachelor's degree
29-1123	Physical Therapists	16	14.5%	31	29.0%	\$37.77	First professional degree
29-1011	Chiropractors	4	12.1%	7	24.1%	\$39.40	First professional degree
29-1122	Occupational Therapists	9	11.2%	17	22.4%	\$27.48	Master's degree
17-2051	Civil Engineers	5	10.7%	9	21.4%	\$34.17	Bachelor's degree
27-3091	Interpreters and Translators	2	10.5%	4	21.1%	\$21.36	Bachelor's degree
13-1121	Meeting, Convention, and Event Planners	2	10.0%	3	20.0%	\$14.62	Bachelor's degree
13-1081	Logisticians	2	7.9%	3	15.8%	\$32.44	Bachelor's degree
29-9011	Occupational Health and Safety Specialists	2	7.9%	3	15.8%	\$26.93	Bachelor's degree
17-2081	Environmental Engineers	1	7.1%	2	14.3%	\$27.06	Bachelor's degree
29-1127	Speech-Language Pathologists	4	6.3%	7	12.5%	\$25.53	Master's degree
13-1041	Compliance Officers	2	6.0%	3	12.0%	\$22.87	Bachelor's degree
21-1013	Marriage and Family Therapists	1	5.9%	2	11.8%	\$19.75	Master's degree
13-1161	Market Research Analysts and Marketing Specialists	4	5.3%	8	10.7%	\$20.24	Bachelor's degree
27-1025	Interior Designers	1	5.3%	2	10.5%	\$19.85	Bachelor's degree
11-9161	Emergency Management Directors	1	5.0%	1	10.0%	\$14.42	Bachelor's degree
17-2041	Chemical Engineers	1	5.0%	1	10.0%	\$40.28	Bachelor's degree
29-9091	Athletic Trainers	1	5.0%	1	10.0%	\$14.56	Bachelor's degree
29-1131	Veterinarians	2	4.7%	4	9.3%	\$37.34	First professional degree
27-1014	Multimedia Artists and Animators	1	4.5%	1	9.1%	\$11.79	Bachelor's degree
21-1029	Social Workers, All Other	1	4.2%	2	8.3%	\$23.62	Bachelor's degree
19-2041	Environmental Scientists and Specialists, Including Health	1	4.2%	1	8.3%	\$27.48	Bachelor's degree
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	1	4.2%	1	8.3%	\$28.57	Bachelor's or higher degree, plus work experience
29-1066	Psychiatrists	1	4.2%	1	8.3%	\$77.61	First professional degree
29-1125	Recreational Therapists	1	4.2%	1	8.3%	\$15.14	Bachelor's degree

Occupations that appear on the corresponding 2010-2012 table are highlighted



## Ranking Occupational Growth During and After the Recession

### Occupations that Require a Bachelor's Degree or Higher with the Fastest Job Growth by Percentage from 2010 to 2012

SOC	Occupation	Annual Change	Annual Percent Change	Net Change	Percent Change	Median Wages	Education Level
17-2171	Petroleum Engineers	11	45.7%	21	91.3%	\$57.13	Bachelor's degree
17-1022	Surveyors	5	29.4%	10	58.8%	\$23.42	Bachelor's degree
27-3091	Interpreters and Translators	4	17.4%	8	34.8%	\$21.36	Bachelor's degree
17-2081	Environmental Engineers	3	15.6%	5	31.3%	\$27.06	Bachelor's degree
41-9031	Sales Engineers	2	15.0%	3	30.0%	\$37.56	Bachelor's degree
11-9041	Architectural and Engineering Managers	4	14.8%	8	29.6%	\$53.17	Bachelor's or higher degree, plus work experience
17-2051	Civil Engineers	8	14.7%	15	29.4%	\$34.17	Bachelor's degree
13-1161	Market Research Analysts and Marketing Specialists	10	12.0%	20	24.1%	\$20.24	Bachelor's degree
17-2071	Electrical Engineers	2	10.5%	4	21.1%	\$32.48	Bachelor's degree
13-1051	Cost Estimators	8	9.4%	16	18.8%	\$27.46	Bachelor's degree
13-1081	Logisticians	2	9.1%	4	18.2%	\$32.44	Bachelor's degree
29-9011	Occupational Health and Safety Specialists	2	9.1%	4	18.2%	\$26.93	Bachelor's degree
17-2041	Chemical Engineers	1	9.1%	2	18.2%	\$40.28	Bachelor's degree
17-2141	Mechanical Engineers	5	8.7%	9	17.3%	\$34.58	Bachelor's degree
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific	3	8.3%	6	16.7%	\$30.33	Bachelor's degree
17-1011	Architects, Except Landscape and Naval	2	8.3%	4	16.7%	\$29.75	Bachelor's degree
15-1133	Software Developers, Systems Software	3	7.6%	5	15.2%	\$39.17	Bachelor's degree
11-2021	Marketing Managers	2	7.1%	3	14.3%	\$50.37	Bachelor's or higher degree, plus work experience
29-1011	Chiropractors	3	6.9%	5	13.9%	\$39.40	First professional degree
17-2199	Engineers, All Other	1	5.9%	2	11.8%	\$32.17	Bachelor's degree
11-1021	General and Operations Managers	31	5.9%	61	11.7%	\$37.58	Bachelor's or higher degree, plus work experience
13-1121	Meeting, Convention, and Event Planners	1	5.6%	2	11.1%	\$14.62	Bachelor's degree
13-2051	Financial Analysts	2	5.4%	3	10.7%	\$30.54	Bachelor's degree
15-1179	Information Security Analysts, Web Developers, and Computer Network	2	5.4%	3	10.7%	\$34.41	Bachelor's degree
19-3051	Urban and Regional Planners	2	5.1%	4	10.3%	\$20.55	Master's degree

Occupations that appear on the corresponding 2008-2010 table are highlighted

## Ranking Occupational Growth During and After the Recession

### Higher Paying Occupations with the Most Job Growth from 2008 to 2010

SOC	Occupation	Annual Change	Annual Percent Change	Net Change	Percent Change	Median Wages	Education Level
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	25	7.0%	50	14.1%	\$24.53	Work experience in a related occupation
29-1123	Physical Therapists	16	14.5%	31	29.0%	\$37.77	First professional degree
29-1111	Registered Nurses	14	1.2%	27	2.5%	\$25.52	Associate's degree
29-1122	Occupational Therapists	9	11.2%	17	22.4%	\$27.48	Master's degree
31-2021	Physical Therapist Assistants	8	17.4%	16	34.8%	\$21.22	Associate's degree
47-2111	Electricians	7	2.7%	14	5.3%	\$21.40	Long-term on-the-job training
23-1011	Lawyers	6	4.0%	12	7.9%	\$33.01	First professional degree
13-2011	Accountants and Auditors	6	1.7%	12	3.4%	\$25.07	Bachelor's degree
49-9051	Electrical Power-Line Installers and Repairers	6	9.0%	11	18.0%	\$26.36	Long-term on-the-job training
17-2051	Civil Engineers	5	10.7%	9	21.4%	\$34.17	Bachelor's degree
49-9052	Telecommunications Line Installers and Repairers	4	8.9%	8	17.8%	\$24.63	Long-term on-the-job training
53-1031	First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle	4	6.2%	8	12.3%	\$25.61	Work experience in a related occupation
13-1161	Market Research Analysts and Marketing Specialists	4	5.3%	8	10.7%	\$20.24	Bachelor's degree
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	4	3.4%	8	6.8%	\$26.09	Postsecondary non-degree award
29-1011	Chiropractors	4	12.1%	7	24.1%	\$39.40	First professional degree
29-1127	Speech-Language Pathologists	4	6.3%	7	12.5%	\$25.53	Master's degree
17-1011	Architects, Except Landscape and Naval	3	16.7%	6	33.3%	\$29.75	Bachelor's degree
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	3	2.0%	6	3.9%	\$31.34	Work experience in a related occupation
25-2021	Elementary School Teachers, Except Special Education	3	0.3%	6	0.6%	\$27.23	Bachelor's degree
51-8092	Gas Plant Operators	3	13.9%	5	27.8%	\$25.40	Long-term on-the-job training
47-4011	Construction and Building Inspectors	3	6.1%	5	12.2%	\$20.23	Work experience in a related occupation
33-3012	Correctional Officers and Jailers	3	0.8%	5	1.6%	\$20.47	Moderate-term on-the-job training

Occupations that appear on the corresponding 2010-2012 table are highlighted

## Ranking Occupational Growth During and After the Recession

### Higher Paying Occupations with the Most Job Growth from 2010 to 2012

SOC	Occupation	Annual Change	Annual Percent Change	Net Change	Percent Change	Median Wages	Education Level
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	48	11.7%	95	23.5%	\$24.53	Work experience in a related occupation
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and	48	7.5%	95	15.1%	\$24.42	Moderate-term on-the-job training
11-1021	General and Operations Managers	31	5.9%	61	11.7%	\$37.58	Bachelor's or higher degree, plus work experience
47-5011	Derrick Operators, Oil and Gas	26	39.2%	51	78.5%	\$26.70	Short-term on-the-job training
47-5012	Rotary Drill Operators, Oil and Gas	25	38.9%	49	77.8%	\$22.63	Moderate-term on-the-job training
49-9051	Electrical Power-Line Installers and Repairers	21	29.2%	42	58.3%	\$26.36	Long-term on-the-job training
47-2111	Electricians	19	6.9%	38	13.8%	\$21.40	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	19	34.9%	37	69.8%	\$24.63	Long-term on-the-job training
43-1011	First-Line Supervisors of Office and Administrative Support Workers	17	3.6%	33	7.2%	\$21.80	Work experience in a related occupation
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	15	9.4%	30	18.9%	\$31.34	Work experience in a related occupation
13-2011	Accountants and Auditors	12	3.2%	23	6.4%	\$25.07	Bachelor's degree
27-4011	Audio and Video Equipment Technicians	11	87.5%	21	175.0%	\$23.13	Postsecondary non-degree award
17-2171	Petroleum Engineers	11	45.7%	21	91.3%	\$57.13	Bachelor's degree
29-1111	Registered Nurses	11	0.9%	21	1.9%	\$25.52	Associate's degree
13-1161	Market Research Analysts and Marketing Specialists	10	12.0%	20	24.1%	\$20.24	Bachelor's degree
49-3011	Aircraft Mechanics and Service Technicians	10	55.9%	19	111.8%	\$21.10	Postsecondary non-degree award
13-1051	Cost Estimators	8	9.4%	16	18.8%	\$27.46	Bachelor's degree
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	8	6.3%	16	12.7%	\$26.09	Postsecondary non-degree award
17-2051	Civil Engineers	8	14.7%	15	29.4%	\$34.17	Bachelor's degree
17-3023	Electrical and Electronics Engineering Technicians	8	11.4%	15	22.7%	\$30.22	Associate's degree
19-4041	Geological and Petroleum Technicians	7	40.6%	13	81.3%	\$21.55	Associate's degree
53-1031	First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle	7	8.9%	13	17.8%	\$25.61	Work experience in a related occupation
29-2021	Dental Hygienists	6	9.8%	12	19.7%	\$25.16	Associate's degree

Occupations that appear on the corresponding 2008-2010 table are highlighted

## Ranking Occupational Growth During and After the Recession

### Higher Paying Occupations with the Fastest Job Growth by Percentage from 2008 to 2010

SOC	Occupation	Annual Change	Annual Percent Change	Net Change	Percent Change	Median Wages	Education Level
31-2021	Physical Therapist Assistants	8	17.4%	16	34.8%	\$21.22	Associate's degree
17-1011	Architects, Except Landscape and Naval	3	16.7%	6	33.3%	\$29.75	Bachelor's degree
29-1123	Physical Therapists	16	14.5%	31	29.0%	\$37.77	First professional degree
51-8092	Gas Plant Operators	3	13.9%	5	27.8%	\$25.40	Long-term on-the-job training
29-1011	Chiropractors	4	12.1%	7	24.1%	\$39.40	First professional degree
29-1122	Occupational Therapists	9	11.2%	17	22.4%	\$27.48	Master's degree
17-2051	Civil Engineers	5	10.7%	9	21.4%	\$34.17	Bachelor's degree
27-3091	Interpreters and Translators	2	10.5%	4	21.1%	\$21.36	Bachelor's degree
49-9051	Electrical Power-Line Installers and Repairers	6	9.0%	11	18.0%	\$26.36	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	4	8.9%	8	17.8%	\$24.63	Long-term on-the-job training
13-1081	Logisticians	2	7.9%	3	15.8%	\$32.44	Bachelor's degree
29-9011	Occupational Health and Safety Specialists	2	7.9%	3	15.8%	\$26.93	Bachelor's degree
17-2081	Environmental Engineers	1	7.1%	2	14.3%	\$27.06	Bachelor's degree
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	25	7.0%	50	14.1%	\$24.53	Work experience in a related occupation
49-3011	Aircraft Mechanics and Service Technicians	1	6.7%	2	13.3%	\$21.10	Postsecondary non-degree award
29-1127	Speech-Language Pathologists	4	6.3%	7	12.5%	\$25.53	Master's degree
53-1031	First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle	4	6.2%	8	12.3%	\$25.61	Work experience in a related occupation
47-4011	Construction and Building Inspectors	3	6.1%	5	12.2%	\$20.23	Work experience in a related occupation
13-1041	Compliance Officers	2	6.0%	3	12.0%	\$22.87	Bachelor's degree
13-1161	Market Research Analysts and Marketing Specialists	4	5.3%	8	10.7%	\$20.24	Bachelor's degree
17-2041	Chemical Engineers	1	5.0%	1	10.0%	\$40.28	Bachelor's degree
29-1131	Veterinarians	2	4.7%	4	9.3%	\$37.34	First professional degree
23-2099	Legal Support Workers, All Other	1	4.5%	1	9.1%	\$22.58	Short-term on-the-job training

Occupations that appear on the corresponding 2010-2012 table are highlighted

## Ranking Occupational Growth During and After the Recession

### Higher Paying Occupations with the Fastest Job Growth by Percentage from 2010 to 2012

SOC	Occupation	Annual Change	Annual Percent Change	Net Change	Percent Change	Median Wages	Education Level
27-4011	Audio and Video Equipment Technicians	11	87.5%	21	175.0%	\$23.13	Postsecondary non-degree award
49-3011	Aircraft Mechanics and Service Technicians	10	55.9%	19	111.8%	\$21.10	Postsecondary non-degree award
49-9096	Riggers	6	45.8%	11	91.7%	\$26.11	Short-term on-the-job training
17-2171	Petroleum Engineers	11	45.7%	21	91.3%	\$57.13	Bachelor's degree
19-4041	Geological and Petroleum Technicians	7	40.6%	13	81.3%	\$21.55	Associate's degree
47-5011	Derrick Operators, Oil and Gas	26	39.2%	51	78.5%	\$26.70	Short-term on-the-job training
47-5012	Rotary Drill Operators, Oil and Gas	25	38.9%	49	77.8%	\$22.63	Moderate-term on-the-job training
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	5	35.7%	10	71.4%	\$32.49	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	19	34.9%	37	69.8%	\$24.63	Long-term on-the-job training
47-5042	Mine Cutting and Channeling Machine Operators	5	32.1%	9	64.3%	\$21.58	Moderate-term on-the-job training
17-1022	Surveyors	5	29.4%	10	58.8%	\$23.42	Bachelor's degree
49-9051	Electrical Power-Line Installers and Repairers	21	29.2%	42	58.3%	\$26.36	Long-term on-the-job training
47-5099	Extraction Workers, All Other	4	26.9%	7	53.8%	\$20.82	Moderate-term on-the-job training
27-3091	Interpreters and Translators	4	17.4%	8	34.8%	\$21.36	Bachelor's degree
51-8092	Gas Plant Operators	4	17.4%	8	34.8%	\$25.40	Long-term on-the-job training
19-4091	Environmental Science and Protection Technicians, Including Health	3	15.8%	6	31.6%	\$20.90	Associate's degree
17-2081	Environmental Engineers	3	15.6%	5	31.3%	\$27.06	Bachelor's degree
41-9031	Sales Engineers	2	15.0%	3	30.0%	\$37.56	Bachelor's degree
11-9041	Architectural and Engineering Managers	4	14.8%	8	29.6%	\$53.17	Bachelor's or higher degree, plus work experience
17-2051	Civil Engineers	8	14.7%	15	29.4%	\$34.17	Bachelor's degree
53-7072	Pump Operators, Except Wellhead Pumpers	2	13.6%	3	27.3%	\$20.17	Moderate-term on-the-job training
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	5	12.9%	9	25.7%	\$27.21	Moderate-term on-the-job training
13-1161	Market Research Analysts and Marketing Specialists	10	12.0%	20	24.1%	\$20.24	Bachelor's degree
47-4011	Construction and Building Inspectors	6	12.0%	11	23.9%	\$20.23	Work experience in a related occupation
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	48	11.7%	95	23.5%	\$24.53	Work experience in a related occupation

Occupations that appear on the corresponding 2008-2010 table are highlighted