Oklahoma Department of Career and Technology Education

Information Commons / Research

January 2013

State of Oklahoma

Health Science
Career Cluster Report

Region Info - Oklahoma

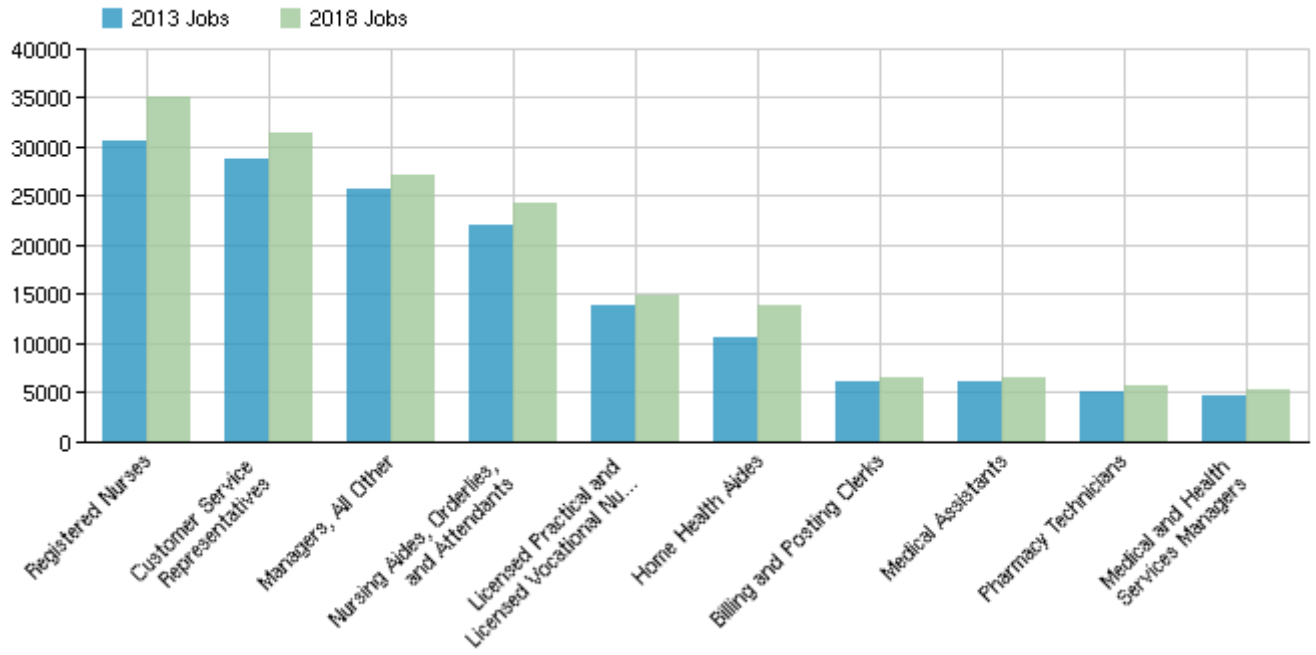
State Areas	Oklahoma (OK)

Executive Summary for Health Science Career Cluster (Bachelor_degree and below)

Education	2013 Jobs	2018 Jobs	Change	Annual Openings	2012 Hourly Earnings
Short-term on-the-job training	47,946	54,518	6,572	2,407	$12.71
Moderate-term on-the-job training	13,292	14,516	1,224	480	$12.11
Long-term on-the-job training	478	506	28	16	$23.96
Work experience in a related occupation	30,219	31,896	1,677	1,024	$23.26
Postsecondary non-degree award	52,325	57,478	5,153	2,018	$12.98
Associate's degree	39,160	44,837	5,677	1,833	$25.32
Bachelor's degree	20,597	22,701	2,104	902	$23.46
Total	204,018	226,451	22,433	8,680	$17.82

Source: EMSI Complete Employment - 2012.4

Largest Occupations

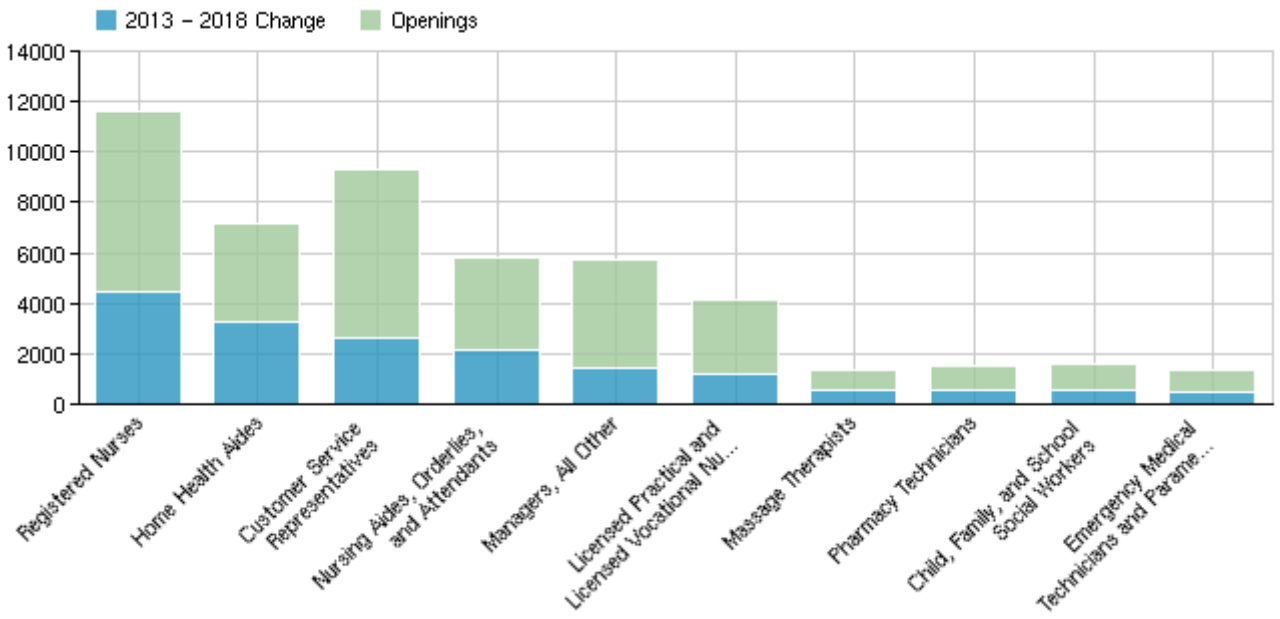


SOC Code	Description	2013 Jobs	2018 Jobs	Change	2012 Hourly Earnings	Education
29-1111	Registered Nurses	30,589	35,053	4,464	$26.43	Associate's degree
43-4051	Customer Service Representatives	28,832	31,447	2,615	$13.22	Short-term on-the-job training
11-9199	Managers, All Other	25,672	27,085	1,413	$22.34	Work experience in a related occupation
31-1012	Nursing Aides, Orderlies, and Attendants	22,109	24,249	2,140	$10.05	Postsecondary non-degree award
29-2061	Licensed Practical and Licensed Vocational Nurses	13,836	14,996	1,160	$16.93	Postsecondary non-degree award
31-1011	Home Health Aides	10,538	13,781	3,243	$9.63	Short-term on-the-job training
43-3021	Billing and Posting Clerks	6,098	6,569	471	$14.08	Short-term on-the-job training
31-9092	Medical Assistants	6,059	6,509	450	$11.96	Moderate-term on-the-job training
29-2052	Pharmacy Technicians	5,128	5,662	534	$11.85	Moderate-term on-the-job training
11-9111	Medical and Health Services Managers	4,753	5,240	487	$33.67	Bachelor's degree
21-1021	Child, Family, and School Social Workers	4,647	5,170	523	$15.16	Bachelor's degree
31-9091	Dental Assistants	3,642	3,944	302	$14.31	Postsecondary non-degree award
11-3011	Administrative Services Managers	3,387	3,596	209	$27.03	Work experience in a related occupation
29-2041	Emergency Medical Technicians and Paramedics	3,219	3,726	507	$13.64	Postsecondary non-degree award
29-2071	Medical Records and Health Information Technicians	3,219	3,474	255	$13.75	Postsecondary non-degree award
31-9011	Massage Therapists	2,827	3,394	567	$11.45	Postsecondary non-degree award
13-1041	Compliance Officers	2,704	3,014	310	$20.87	Bachelor's degree
29-2011	Medical and Clinical Laboratory Technologists	2,098	2,227	129	$23.82	Bachelor's degree
29-2055	Surgical Technologists	1,852	1,999	147	$16.00	Postsecondary non-degree award
43-4111	Interviewers, Except Eligibility and Loan	1,822	2,036	214	$12.50	Short-term on-the-job training
29-2012	Medical and Clinical Laboratory Technicians	1,751	1,867	116	$16.51	Associate's degree
31-9094	Medical Transcriptionists	1,621	1,695	74	$12.58	Postsecondary non-degree award
29-1126	Respiratory Therapists	1,322	1,540	218	$23.01	Associate's degree
31-2021	Physical Therapist Assistants	1,235	1,448	213	$22.47	Associate's degree
11-3071	Transportation, Storage, and Distribution Managers	1,160	1,215	55	$32.16	Work experience in a related occupation
29-1031	Dietitians and Nutritionists	1,096	1,223	127	$24.57	Bachelor's degree
19-4021	Biological Technicians	1,055	1,087	32	$15.96	Bachelor's degree
29-2056	Veterinary Technologists and Technicians	822	1,001	179	$12.35	Associate's degree
19-2041	Environmental Scientists and	780	857	77	$23.82	Bachelor's degree

SOC Code	Description	2013 Jobs	2018 Jobs	Change	2012 Hourly Earnings	Education
	Specialists, Including Health					
21-1029	Social Workers, All Other	748	836	88	$20.61	Bachelor's degree
29-2032	Diagnostic Medical Sonographers	681	809	128	$29.14	Associate's degree
21-1091	Health Educators	679	790	111	$22.18	Bachelor's degree
31-2022	Physical Therapist Aides	673	793	120	$10.02	Moderate-term on-the-job training
29-9011	Occupational Health and Safety Specialists	666	719	53	$32.09	Bachelor's degree
29-2031	Cardiovascular Technologists and Technicians	630	729	99	$19.55	Associate's degree
19-4091	Environmental Science and Protection Technicians, Including Health	608	680	72	$22.81	Associate's degree
23-2099	Legal Support Workers, All Other	566	580	14	$26.46	Short-term on-the-job training
31-2011	Occupational Therapy Assistants	563	657	94	$22.43	Associate's degree
51-9081	Dental Laboratory Technicians	488	535	47	$15.43	Moderate-term on-the-job training
51-8021	Stationary Engineers and Boiler Operators	478	506	28	$23.96	Long-term on-the-job training
17-2081	Environmental Engineers	448	505	57	$33.61	Bachelor's degree
17-3025	Environmental Engineering Technicians	405	446	41	$20.82	Associate's degree
31-9093	Medical Equipment Preparers	398	439	41	$14.36	Moderate-term on-the-job training
51-9083	Ophthalmic Laboratory Technicians	386	402	16	$11.15	Moderate-term on-the-job training
29-1124	Radiation Therapists	324	353	29	$35.03	Associate's degree
29-9091	Athletic Trainers	274	306	32	$16.27	Bachelor's degree
29-1125	Recreational Therapists	260	290	30	$19.60	Bachelor's degree
29-2033	Nuclear Medicine Technologists	230	254	24	$32.58	Associate's degree
19-1023	Zoologists and Wildlife Biologists	171	184	13	$17.29	Bachelor's degree
29-9012	Occupational Health and Safety Technicians	160	176	16	$20.91	Moderate-term on-the-job training
19-1022	Microbiologists	149	164	15	$19.55	Bachelor's degree
31-2012	Occupational Therapy Aides	91	106	15	$14.70	Short-term on-the-job training
17-2031	Biomedical Engineers	68	89	21	$25.83	Bachelor's degree

Source: EMSI Complete Employment - 2012.4

Largest Growth



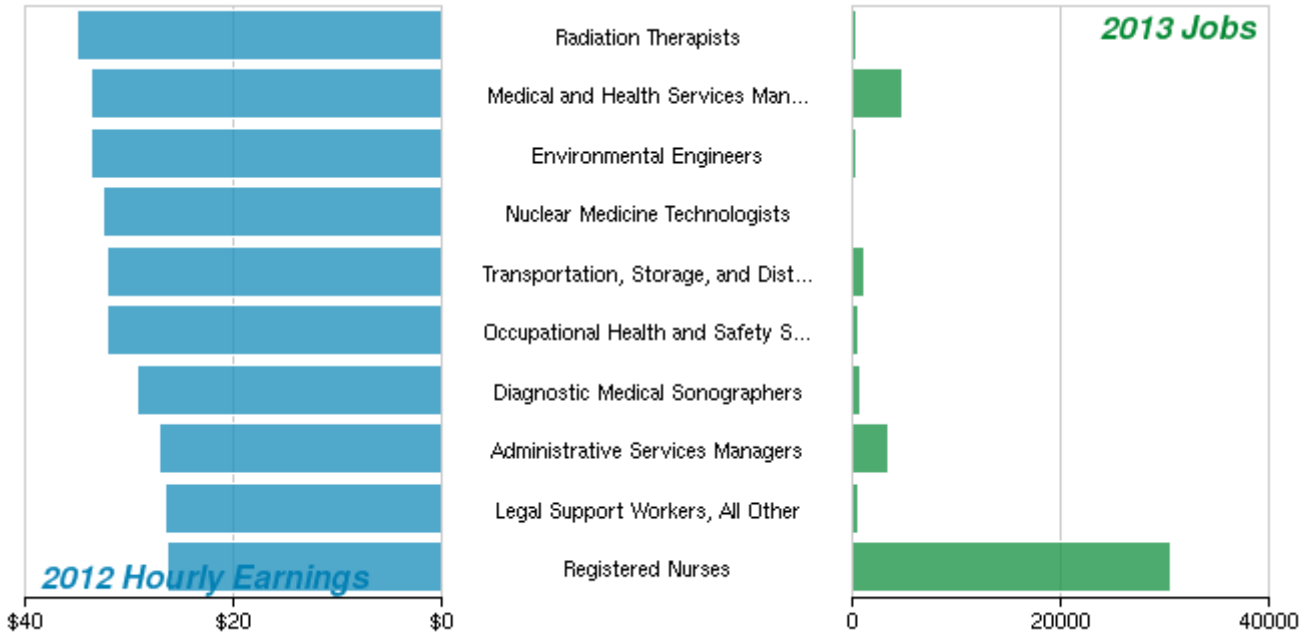
SOC Code	Description	2013 - 2018 Change	Openings	Annual Openings	2012 Hourly Earnings	Education
29-1111	Registered Nurses	4,464	7,144	1,429	$26.43	Associate's degree
31-1011	Home Health Aides	3,243	3,878	776	$9.63	Short-term on-the-job training
43-4051	Customer Service Representatives	2,615	6,681	1,336	$13.22	Short-term on-the-job training
31-1012	Nursing Aides, Orderlies, and Attendants	2,140	3,679	736	$10.05	Postsecondary non-degree award
11-9199	Managers, All Other	1,413	4,300	860	$22.34	Work experience in a related occupation
29-2061	Licensed Practical and Licensed Vocational Nurses	1,160	3,006	601	$16.93	Postsecondary non-degree award
31-9011	Massage Therapists	567	784	157	$11.45	Postsecondary non-degree award
29-2052	Pharmacy Technicians	534	973	195	$11.85	Moderate-term on-the-job training
21-1021	Child, Family, and School Social Workers	523	1,062	212	$15.16	Bachelor's degree
29-2041	Emergency Medical Technicians and Paramedics	507	835	167	$13.64	Postsecondary non-degree award
11-9111	Medical and Health Services Managers	487	1,052	210	$33.67	Bachelor's degree
43-3021	Billing and Posting Clerks	471	994	199	$14.08	Short-term on-the-job training

SOC Code	Description	2013 - 2018 Change	Openings	Annual Openings	2012 Hourly Earnings	Education
31-9092	Medical Assistants	450	932	186	$11.96	Moderate-term on-the-job training
13-1041	Compliance Officers	310	468	94	$20.87	Bachelor's degree
31-9091	Dental Assistants	302	697	139	$14.31	Postsecondary non-degree award
29-2071	Medical Records and Health Information Technicians	255	573	115	$13.75	Postsecondary non-degree award
29-1126	Respiratory Therapists	218	341	68	$23.01	Associate's degree
43-4111	Interviewers, Except Eligibility and Loan	214	390	78	$12.50	Short-term on-the-job training
31-2021	Physical Therapist Assistants	213	305	61	$22.47	Associate's degree
11-3011	Administrative Services Managers	209	622	124	$27.03	Work experience in a related occupation
29-2056	Veterinary Technologists and Technicians	179	251	50	$12.35	Associate's degree
29-2055	Surgical Technologists	147	309	62	$16.00	Postsecondary non-degree award
29-2011	Medical and Clinical Laboratory Technologists	129	335	67	$23.82	Bachelor's degree
29-2032	Diagnostic Medical Sonographers	128	179	36	$29.14	Associate's degree
29-1031	Dietitians and Nutritionists	127	314	63	$24.57	Bachelor's degree
31-2022	Physical Therapist Aides	120	171	34	$10.02	Moderate-term on-the-job training
29-2012	Medical and Clinical Laboratory Technicians	116	287	57	$16.51	Associate's degree
21-1091	Health Educators	111	182	36	$22.18	Bachelor's degree
29-2031	Cardiovascular Technologists and Technicians	99	146	29	$19.55	Associate's degree
31-2011	Occupational Therapy Assistants	94	136	27	$22.43	Associate's degree
21-1029	Social Workers, All Other	88	174	35	$20.61	Bachelor's degree
19-2041	Environmental Scientists and Specialists, Including Health	77	190	38	$23.82	Bachelor's degree
31-9094	Medical Transcriptionists	74	210	42	$12.58	Postsecondary non-degree award
19-4091	Environmental Science and Protection Technicians, Including Health	72	196	39	$22.81	Associate's degree
17-2081	Environmental Engineers	57	105	21	$33.61	Bachelor's degree
11-3071	Transportation, Storage, and Distribution Managers	55	196	39	$32.16	Work experience in a related occupation
29-9011	Occupational Health and Safety Specialists	53	169	34	$32.09	Bachelor's degree
51-9081	Dental Laboratory Technicians	47	126	25	$15.43	Moderate-term on-the-job training
17-3025	Environmental Engineering Technicians	41	80	16	$20.82	Associate's degree

SOC Code	Description	2013 - 2018 Change	Openings	Annual Openings	2012 Hourly Earnings	Education
31-9093	Medical Equipment Preparers	41	73	15	$14.36	Moderate-term on-the-job training
29-9091	Athletic Trainers	32	79	16	$16.27	Bachelor's degree
19-4021	Biological Technicians	32	213	43	$15.96	Bachelor's degree
29-1125	Recreational Therapists	30	76	15	$19.60	Bachelor's degree
29-1124	Radiation Therapists	29	59	12	$35.03	Associate's degree
51-8021	Stationary Engineers and Boiler Operators	28	82	16	$23.96	Long-term on-the-job training
29-2033	Nuclear Medicine Technologists	24	41	8	$32.58	Associate's degree
17-2031	Biomedical Engineers	21	28	6	$25.83	Bachelor's degree
29-9012	Occupational Health and Safety Technicians	16	45	9	$20.91	Moderate-term on-the-job training
51-9083	Ophthalmic Laboratory Technicians	16	78	16	$11.15	Moderate-term on-the-job training
31-2012	Occupational Therapy Aides	15	22	4	$14.70	Short-term on-the-job training
19-1022	Microbiologists	15	31	6	$19.55	Bachelor's degree
23-2099	Legal Support Workers, All Other	14	68	14	$26.46	Short-term on-the-job training
19-1023	Zoologists and Wildlife Biologists	13	32	6	$17.29	Bachelor's degree

Source: EMSI Complete Employment - 2012.4

Highest Earnings



SOC Code	Description	2012 Hourly Earnings	2013 Jobs	2013 - 2018 Change	Annual Openings	Education
29-1124	Radiation Therapists	$35.03	324	29	12	Associate's degree
11-9111	Medical and Health Services Managers	$33.67	4,753	487	210	Bachelor's degree
17-2081	Environmental Engineers	$33.61	448	57	21	Bachelor's degree
29-2033	Nuclear Medicine Technologists	$32.58	230	24	8	Associate's degree
11-3071	Transportation, Storage, and Distribution Managers	$32.16	1,160	55	39	Work experience in a related occupation
29-9011	Occupational Health and Safety Specialists	$32.09	666	53	34	Bachelor's degree
29-2032	Diagnostic Medical Sonographers	$29.14	681	128	36	Associate's degree
11-3011	Administrative Services Managers	$27.03	3,387	209	124	Work experience in a related occupation
23-2099	Legal Support Workers, All Other	$26.46	566	14	14	Short-term on-the-job training
29-1111	Registered Nurses	$26.43	30,589	4,464	1,429	Associate's degree
17-2031	Biomedical Engineers	$25.83	68	21	6	Bachelor's degree
29-1031	Dietitians and Nutritionists	$24.57	1,096	127	63	Bachelor's degree
51-8021	Stationary Engineers and Boiler Operators	$23.96	478	28	16	Long-term on-the-job training
29-2011	Medical and Clinical Laboratory Technologists	$23.82	2,098	129	67	Bachelor's degree
19-2041	Environmental Scientists and Specialists, Including Health	$23.82	780	77	38	Bachelor's degree
29-1126	Respiratory Therapists	$23.01	1,322	218	68	Associate's degree
19-4091	Environmental Science and Protection Technicians, Including Health	$22.81	608	72	39	Associate's degree
31-2021	Physical Therapist Assistants	$22.47	1,235	213	61	Associate's degree
31-2011	Occupational Therapy Assistants	$22.43	563	94	27	Associate's degree
11-9199	Managers, All Other	$22.34	25,672	1,413	860	Work experience in a related occupation
21-1091	Health Educators	$22.18	679	111	36	Bachelor's degree
29-9012	Occupational Health and Safety Technicians	$20.91	160	16	9	Moderate-term on-the-job training
13-1041	Compliance Officers	$20.87	2,704	310	94	Bachelor's degree
17-3025	Environmental Engineering Technicians	$20.82	405	41	16	Associate's degree
21-1029	Social Workers, All Other	$20.61	748	88	35	Bachelor's degree
29-1125	Recreational Therapists	$19.60	260	30	15	Bachelor's degree
29-2031	Cardiovascular Technologists and Technicians	$19.55	630	99	29	Associate's degree
19-1022	Microbiologists	$19.55	149	15	6	Bachelor's degree
19-1023	Zoologists and Wildlife Biologists	$17.29	171	13	6	Bachelor's degree

SOC Code	Description	2012 Hourly Earnings	2013 Jobs	2013 - 2018 Change	Annual Openings	Education
29-2061	Licensed Practical and Licensed Vocational Nurses	$16.93	13,836	1,160	601	Postsecondary non-degree award
29-2012	Medical and Clinical Laboratory Technicians	$16.51	1,751	116	57	Associate's degree
29-9091	Athletic Trainers	$16.27	274	32	16	Bachelor's degree
29-2055	Surgical Technologists	$16.00	1,852	147	62	Postsecondary non-degree award
19-4021	Biological Technicians	$15.96	1,055	32	43	Bachelor's degree
51-9081	Dental Laboratory Technicians	$15.43	488	47	25	Moderate-term on-the-job training
21-1021	Child, Family, and School Social Workers	$15.16	4,647	523	212	Bachelor's degree
31-2012	Occupational Therapy Aides	$14.70	91	15	4	Short-term on-the-job training
31-9093	Medical Equipment Preparers	$14.36	398	41	15	Moderate-term on-the-job training
31-9091	Dental Assistants	$14.31	3,642	302	139	Postsecondary non-degree award
43-3021	Billing and Posting Clerks	$14.08	6,098	471	199	Short-term on-the-job training
29-2071	Medical Records and Health Information Technicians	$13.75	3,219	255	115	Postsecondary non-degree award
29-2041	Emergency Medical Technicians and Paramedics	$13.64	3,219	507	167	Postsecondary non-degree award
43-4051	Customer Service Representatives	$13.22	28,832	2,615	1,336	Short-term on-the-job training
31-9094	Medical Transcriptionists	$12.58	1,621	74	42	Postsecondary non-degree award
43-4111	Interviewers, Except Eligibility and Loan	$12.50	1,822	214	78	Short-term on-the-job training
29-2056	Veterinary Technologists and Technicians	$12.35	822	179	50	Associate's degree
31-9092	Medical Assistants	$11.96	6,059	450	186	Moderate-term on-the-job training
29-2052	Pharmacy Technicians	$11.85	5,128	534	195	Moderate-term on-the-job training
31-9011	Massage Therapists	$11.45	2,827	567	157	Postsecondary non-degree award
51-9083	Ophthalmic Laboratory Technicians	$11.15	386	16	16	Moderate-term on-the-job training
31-1012	Nursing Aides, Orderlies, and Attendants	$10.05	22,109	2,140	736	Postsecondary non-degree award
31-2022	Physical Therapist Aides	$10.02	673	120	34	Moderate-term on-the-job training
31-1011	Home Health Aides	$9.63	10,538	3,243	776	Short-term on-the-job training

Source: EMSI Complete Employment - 2012.4

*Note: Occupations with fewer than 10 employees are not shown.

Career Cluster Data

Career clusters and pathways are collections of standard occupation (SOC) codes. They are defined by the States' Career Cluster Initiative.

Occupation Data

Organizing regional employment information by occupation provides a workforce-oriented view of the regional economy. EMSI's occupation data are based on EMSI's industry data and regional staffing patterns taken from the Occupational Employment Statistics program (U.S. Bureau of Labor Statistics). Wage information is partially derived from the American Community Survey. The occupation-to-program (SOC-to-CIP) crosswalk is based on one from the U.S. Department of Education, with customizations by EMSI.

State Data Sources

This report uses state data from the following agencies: Oklahoma Employment Security Commission.