

# Occupation Overview: Bioscience

Emsi Q4 2016 Data Set

## Upstate SC Alliance



124 Verdae Blvd  
South Carolina 29607

# Parameters

## Occupations

102 items selected. See Appendix A for details.

## Regions

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Code	Description
45073	Oconee County, SC

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## Timeframe

2014 - 2016

## Datarun

2016.4 – Employees

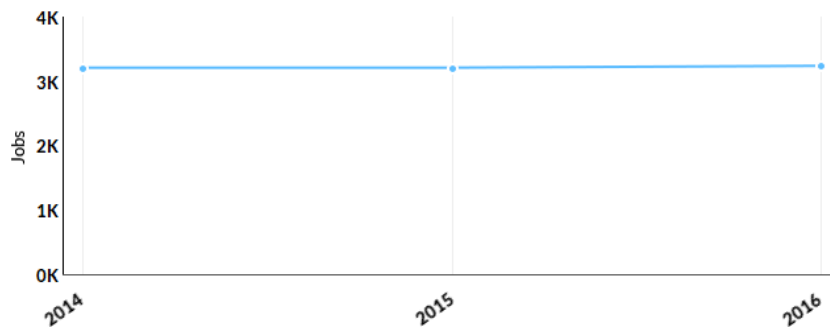
102 Occupations in Oconee County, SC

# Occupation Summary for 102 Occupations

<b>3,235</b> Jobs (2016) 0% above National average	<b>0.9%</b> % Change (2014-2016) Nation: 3.9%	<b>\$25.94/hr</b> Median Hourly Earnings Nation: \$30.75/hr
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## Growth

<b>3,207</b> 2014 Jobs	<b>3,235</b> 2016 Jobs	<b>28</b> Change (2014-2016)	<b>0.9%</b> % Change (2014-2016)
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Occupation	2014 Jobs	2016 Jobs	Change	% Change
Industrial Production Managers (11-3051)	64	65	1	2%
Farmers, Ranchers, and Other Agricultural Managers (11-9013)	5	5	0	0%
Education Administrators, Postsecondary (11-9033)	0	0	0	0%
Architectural and Engineering Managers (11-9041)	46	47	1	2%
Natural Sciences Managers (11-9121)	2	2	0	0%
Emergency Management Directors (11-9161)	10	10	0	0%
Managers, All Other (11-9199)	26	27	1	4%
Compliance Officers (13-1041)	27	29	2	7%
Financial Analysts (13-2051)	25	25	0	0%
Financial Specialists, All Other (13-2099)	6	6	0	0%
Computer and Information Research Scientists (15-1111)	1	1	0	0%
Computer Programmers (15-1131)	21	20	-1	-5%

Occupation	2014 Jobs	2016 Jobs	Change	% Change
Software Developers, Applications (15-1132)	53	53	0	0%
Computer Occupations, All Other (15-1199)	8	8	0	0%
Statisticians (15-2041)	1	1	0	0%
Aerospace Engineers (17-2011)	7	8	1	14%
Agricultural Engineers (17-2021)	1	1	0	0%
Biomedical Engineers (17-2031)	2	2	0	0%
Chemical Engineers (17-2041)	13	13	0	0%
Civil Engineers (17-2051)	42	46	4	10%
Electrical Engineers (17-2071)	114	115	1	1%
Environmental Engineers (17-2081)	6	6	0	0%
Health and Safety Engineers, Except Mining Safety Engineers and Inspectors (17-2111)	8	8	0	0%
Mechanical Engineers (17-2141)	130	136	6	5%
Engineers, All Other (17-2199)	23	24	1	4%
Environmental Engineering Technicians (17-3025)	2	2	0	0%
Mechanical Engineering Technicians (17-3027)	28	29	1	4%
Animal Scientists (19-1011)	0	0	0	0%
Food Scientists and Technologists (19-1012)	0	0	0	0%
Soil and Plant Scientists (19-1013)	0	0	0	0%
Biochemists and Biophysicists (19-1021)	2	2	0	0%
Microbiologists (19-1022)	1	1	0	0%
Zoologists and Wildlife Biologists (19-1023)	0	0	0	0%

Occupation	2014 Jobs	2016 Jobs	Change	% Change
Biological Scientists, All Other (19-1029)	0	0	0	0%
Conservation Scientists (19-1031)	1	2	1	100%
Epidemiologists (19-1041)	0	0	0	0%
Medical Scientists, Except Epidemiologists (19-1042)	3	3	0	0%
Physicists (19-2012)	2	2	0	0%
Chemists (19-2031)	16	16	0	0%
Environmental Scientists and Specialists, Including Health (19-2041)	4	4	0	0%
Anthropologists and Archeologists (19-3091)	0	0	0	0%
Historians (19-3093)	0	0	0	0%
Agricultural and Food Science Technicians (19-4011)	0	0	0	0%
Biological Technicians (19-4021)	2	2	0	0%
Nuclear Technicians (19-4051)	126	126	0	0%
Social Science Research Assistants (19-4061)	0	0	0	0%
Environmental Science and Protection Technicians, Including Health (19-4091)	7	7	0	0%
Forensic Science Technicians (19-4092)	2	2	0	0%
Forest and Conservation Technicians (19-4093)	1	1	0	0%
Postsecondary Teachers (25-1099)	4	4	0	0%
Secondary School Teachers, Except Special and Career/Technical Education (25-2031)	316	305	-11	-3%
Teachers and Instructors, All Other (25-3099)	9	9	0	0%
Writers and Authors (27-3043)	2	2	0	0%

Occupation	2014 Jobs	2016 Jobs	Change	% Change
Photographers (27-4021)	8	8	0	0%
Oral and Maxillofacial Surgeons (29-1022)	2	2	0	0%
Physicians and Surgeons, All Other (29-1069)	32	31	-1	-3%
Physician Assistants (29-1071)	22	23	1	5%
Exercise Physiologists (29-1128)	2	2	0	0%
Veterinarians (29-1131)	21	24	3	14%
Registered Nurses (29-1141)	385	367	-18	-5%
Nurse Anesthetists (29-1151)	9	9	0	0%
Health Diagnosing and Treating Practitioners, All Other (29-1199)	2	2	0	0%
Medical and Clinical Laboratory Technologists (29-2011)	25	24	-1	-4%
Medical and Clinical Laboratory Technicians (29-2012)	17	16	-1	-6%
Diagnostic Medical Sonographers (29-2032)	12	12	0	0%
Nuclear Medicine Technologists (29-2033)	5	5	0	0%
Respiratory Therapy Technicians (29-2054)	3	2	-1	-33%
Surgical Technologists (29-2055)	26	24	-2	-8%
Veterinary Technologists and Technicians (29-2056)	21	24	3	14%
Licensed Practical and Licensed Vocational Nurses (29-2061)	101	97	-4	-4%
Health Technologists and Technicians, All Other (29-2099)	7	6	-1	-14%
Occupational Health and Safety Specialists (29-9011)	26	27	1	4%

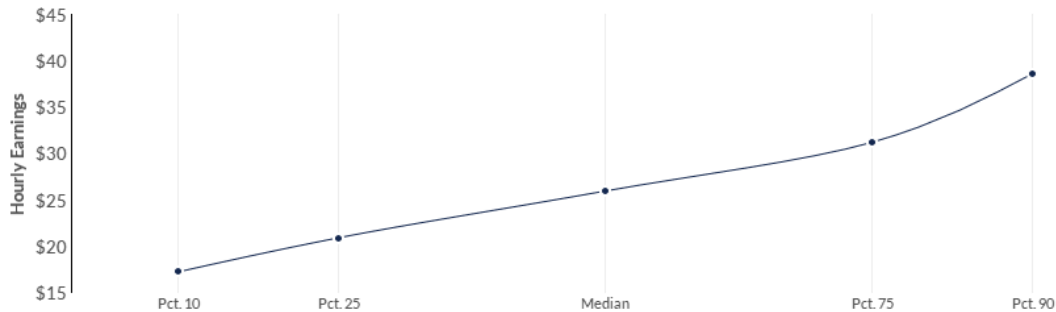


Occupation	2014 Jobs	2016 Jobs	Change	% Change
Occupational Health and Safety Technicians (29-9012)	6	7	1	17%
Healthcare Practitioners and Technical Workers, All Other (29-9099)	1	1	0	0%
Psychiatric Aides (31-1013)	2	2	0	0%
Nursing Assistants (31-1014)	257	243	-14	-5%
Orderlies (31-1015)	19	18	-1	-5%
Medical Assistants (31-9092)	123	124	1	1%
Medical Equipment Preparers (31-9093)	4	4	0	0%
Pharmacy Aides (31-9095)	2	2	0	0%
Veterinary Assistants and Laboratory Animal Caretakers (31-9096)	34	39	5	15%
Phlebotomists (31-9097)	9	9	0	0%
Healthcare Support Workers, All Other (31-9099)	8	8	0	0%
First-Line Supervisors of Police and Detectives (33-1012)	21	24	3	14%
Detectives and Criminal Investigators (33-3021)	4	4	0	0%
Fish and Game Wardens (33-3031)	0	0	0	0%
Police and Sheriff's Patrol Officers (33-3051)	116	134	18	16%
Private Detectives and Investigators (33-9021)	2	2	0	0%
Transportation Security Screeners (33-9093)	0	0	0	0%
Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products (41-4011)	45	45	0	0%
Statistical Assistants	1	1	0	0%

Occupation	2014 Jobs	2016 Jobs	Change	% Change
(43-9111)				
First-Line Supervisors of Farming, Fishing, and Forestry Workers (45-1011)	3	4	1	33%
Construction Laborers (47-2061)	216	231	15	7%
Hazardous Materials Removal Workers (47-4041)	15	17	2	13%
Automotive Service Technicians and Mechanics (49-3023)	107	112	5	5%
Bus and Truck Mechanics and Diesel Engine Specialists (49-3031)	32	35	3	9%
Medical Equipment Repairers (49-9062)	2	1	-1	-50%
Water and Wastewater Treatment Plant and System Operators (51-8031)	21	24	3	14%
Plant and System Operators, All Other (51-8099)	3	3	0	0%
Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)	253	253	0	0%
Medical Appliance Technicians (51-9082)	5	4	-1	-20%
Geographers (19-3092)	0	0	0	0%

## Percentile Earnings

<b>\$20.89/hr</b> 25th Percentile Earnings	<b>\$25.94/hr</b> Median Earnings	<b>\$31.20/hr</b> 75th Percentile Earnings
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Occupation	25th Percentile Earnings	Median Earnings	75th Percentile Earnings
Industrial Production Managers (11-3051)	\$41.05	\$46.69	\$56.26
Farmers, Ranchers, and Other Agricultural Managers (11-9013)	\$16.88	\$28.79	\$37.26
Education Administrators, Postsecondary (11-9033)	\$22.13	\$34.49	\$49.06
Architectural and Engineering Managers (11-9041)	\$42.91	\$55.30	\$67.03
Natural Sciences Managers (11-9121)	\$30.09	\$43.46	\$57.81
Emergency Management Directors (11-9161)	\$15.36	\$23.22	\$31.60
Managers, All Other (11-9199)	\$21.41	\$34.51	\$44.48
Compliance Officers (13-1041)	\$17.88	\$23.45	\$29.86
Financial Analysts (13-2051)	\$32.19	\$54.28	\$61.29
Financial Specialists, All Other (13-2099)	\$19.78	\$27.08	\$35.17
Computer and Information Research Scientists (15-1111)	\$38.62	\$45.53	\$52.94
Computer Programmers (15-1131)	\$22.79	\$30.08	\$41.89
Software Developers, Applications (15-1132)	\$34.86	\$39.24	\$45.66
Computer Occupations, All Other (15-1199)	\$34.83	\$42.11	\$50.88
Statisticians (15-2041)	\$29.57	\$36.08	\$44.92

<b>Occupation</b>	<b>25th Percentile Earnings</b>	<b>Median Earnings</b>	<b>75th Percentile Earnings</b>
Aerospace Engineers (17-2011)	\$34.50	\$43.59	\$51.42
Agricultural Engineers (17-2021)	\$31.73	\$39.23	\$47.07
Biomedical Engineers (17-2031)	\$38.49	\$38.49	\$38.49
Chemical Engineers (17-2041)	\$32.81	\$35.87	\$41.58
Civil Engineers (17-2051)	\$27.16	\$32.06	\$39.72
Electrical Engineers (17-2071)	\$35.95	\$47.39	\$54.95
Environmental Engineers (17-2081)	\$33.56	\$42.43	\$52.18
Health and Safety Engineers, Except Mining Safety Engineers and Inspectors (17-2111)	\$25.43	\$36.87	\$47.17
Mechanical Engineers (17-2141)	\$31.18	\$38.59	\$47.92
Engineers, All Other (17-2199)	\$36.54	\$49.13	\$60.54
Environmental Engineering Technicians (17-3025)	\$16.90	\$23.42	\$29.11
Mechanical Engineering Technicians (17-3027)	\$22.02	\$26.52	\$30.81
Animal Scientists (19-1011)	\$17.98	\$22.31	\$27.07
Food Scientists and Technologists (19-1012)	\$26.87	\$26.87	\$26.87
Soil and Plant Scientists (19-1013)	\$30.35	\$30.79	\$31.34
Biochemists and Biophysicists (19-1021)	\$18.01	\$22.36	\$35.08
Microbiologists (19-1022)	\$22.01	\$26.29	\$40.18
Zoologists and Wildlife Biologists (19-1023)	\$22.00	\$22.00	\$22.00
Biological Scientists, All Other (19-1029)	\$34.42	\$39.99	\$44.99
Conservation Scientists (19-1031)	\$22.07	\$22.07	\$22.07
Epidemiologists (19-1041)	\$33.49	\$42.39	\$49.31
Medical Scientists, Except Epidemiologists (19-1042)	\$32.16	\$32.16	\$32.16
Physicists (19-2012)	\$62.18	\$62.18	\$62.18
Chemists (19-2031)	\$28.89	\$42.82	\$51.26
Environmental Scientists and	\$19.82	\$26.03	\$33.02

<b>Occupation</b>	<b>25th Percentile Earnings</b>	<b>Median Earnings</b>	<b>75th Percentile Earnings</b>
Specialists, Including Health (19-2041)			
Anthropologists and Archeologists (19-3091)	\$16.03	\$21.92	\$26.15
Historians (19-3093)	\$12.43	\$19.17	\$25.47
Agricultural and Food Science Technicians (19-4011)	\$14.35	\$14.39	\$14.45
Biological Technicians (19-4021)	\$22.15	\$26.69	\$31.56
Nuclear Technicians (19-4051)	\$34.42	\$39.43	\$41.83
Social Science Research Assistants (19-4061)	\$18.10	\$18.17	\$18.28
Environmental Science and Protection Technicians, Including Health (19-4091)	\$25.49	\$28.72	\$32.04
Forensic Science Technicians (19-4092)	\$21.18	\$21.18	\$21.18
Forest and Conservation Technicians (19-4093)	\$10.84	\$12.86	\$15.34
Postsecondary Teachers (25-1099)	\$16.20	\$27.65	\$36.72
Secondary School Teachers, Except Special and Career/Technical Education (25-2031)	\$22.10	\$27.55	\$31.88
Teachers and Instructors, All Other (25-3099)	\$14.13	\$23.71	\$31.07
Writers and Authors (27-3043)	\$16.95	\$21.27	\$25.31
Photographers (27-4021)	\$9.89	\$11.79	\$14.66
Oral and Maxillofacial Surgeons (29-1022)	\$70.94	\$80.64	\$113.80
Physicians and Surgeons, All Other (29-1069)	\$77.76	\$105.59	\$125.19
Physician Assistants (29-1071)	\$25.69	\$30.02	\$40.96
Exercise Physiologists (29-1128)	\$10.88	\$15.00	\$19.15
Veterinarians (29-1131)	\$26.82	\$34.84	\$43.65
Registered Nurses (29-1141)	\$22.13	\$26.49	\$31.48
Nurse Anesthetists (29-1151)	\$57.91	\$70.61	\$84.88
Health Diagnosing and Treating	\$17.12	\$22.54	\$31.83

<b>Occupation</b>	<b>25th Percentile Earnings</b>	<b>Median Earnings</b>	<b>75th Percentile Earnings</b>
Practitioners, All Other (29-1199)			
Medical and Clinical Laboratory Technologists (29-2011)	\$10.42	\$14.51	\$17.34
Medical and Clinical Laboratory Technicians (29-2012)	\$14.21	\$16.88	\$22.85
Diagnostic Medical Sonographers (29-2032)	\$20.45	\$25.87	\$29.98
Nuclear Medicine Technologists (29-2033)	\$24.89	\$31.12	\$36.35
Respiratory Therapy Technicians (29-2054)	\$13.20	\$16.64	\$20.38
Surgical Technologists (29-2055)	\$15.30	\$16.91	\$18.53
Veterinary Technologists and Technicians (29-2056)	\$9.89	\$12.56	\$15.25
Licensed Practical and Licensed Vocational Nurses (29-2061)	\$15.58	\$18.27	\$21.62
Health Technologists and Technicians, All Other (29-2099)	\$12.87	\$17.60	\$24.79
Occupational Health and Safety Specialists (29-9011)	\$11.56	\$16.40	\$21.54
Occupational Health and Safety Technicians (29-9012)	\$15.51	\$22.93	\$29.79
Healthcare Practitioners and Technical Workers, All Other (29-9099)	\$27.76	\$27.76	\$27.76
Psychiatric Aides (31-1013)	\$10.05	\$11.10	\$12.40
Nursing Assistants (31-1014)	\$10.03	\$11.36	\$12.63
Orderlies (31-1015)	\$9.79	\$11.05	\$12.47
Medical Assistants (31-9092)	\$12.24	\$13.83	\$15.37
Medical Equipment Preparers (31-9093)	\$12.25	\$14.69	\$17.35
Pharmacy Aides (31-9095)	\$9.99	\$11.71	\$13.81
Veterinary Assistants and Laboratory Animal Caretakers (31-9096)	\$10.16	\$11.72	\$13.74
Phlebotomists (31-9097)	\$12.44	\$14.32	\$16.04
Healthcare Support Workers, All Other (31-9099)	\$14.28	\$17.58	\$20.12

<b>Occupation</b>	<b>25th Percentile Earnings</b>	<b>Median Earnings</b>	<b>75th Percentile Earnings</b>
First-Line Supervisors of Police and Detectives (33-1012)	\$21.39	\$24.39	\$28.79
Detectives and Criminal Investigators (33-3021)	\$19.86	\$25.45	\$31.86
Fish and Game Wardens (33-3031)	\$22.57	\$22.57	\$22.57
Police and Sheriff's Patrol Officers (33-3051)	\$16.68	\$19.02	\$22.49
Private Detectives and Investigators (33-9021)	\$20.40	\$23.29	\$26.05
Transportation Security Screeners (33-9093)	\$15.27	\$15.28	\$15.32
Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products (41-4011)	\$10.53	\$25.89	\$50.12
Statistical Assistants (43-9111)	\$14.28	\$17.62	\$21.09
First-Line Supervisors of Farming, Fishing, and Forestry Workers (45-1011)	\$18.24	\$26.86	\$32.74
Construction Laborers (47-2061)	\$12.20	\$14.64	\$18.82
Hazardous Materials Removal Workers (47-4041)	\$16.59	\$20.44	\$24.26
Automotive Service Technicians and Mechanics (49-3023)	\$11.39	\$15.21	\$18.29
Bus and Truck Mechanics and Diesel Engine Specialists (49-3031)	\$14.62	\$17.07	\$23.67
Medical Equipment Repairers (49-9062)	\$19.65	\$26.39	\$32.69
Water and Wastewater Treatment Plant and System Operators (51-8031)	\$13.17	\$16.72	\$23.03
Plant and System Operators, All Other (51-8099)	\$24.53	\$24.53	\$24.53
Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)	\$12.79	\$16.18	\$20.14
Medical Appliance Technicians (51-9082)	\$15.15	\$19.37	\$23.38

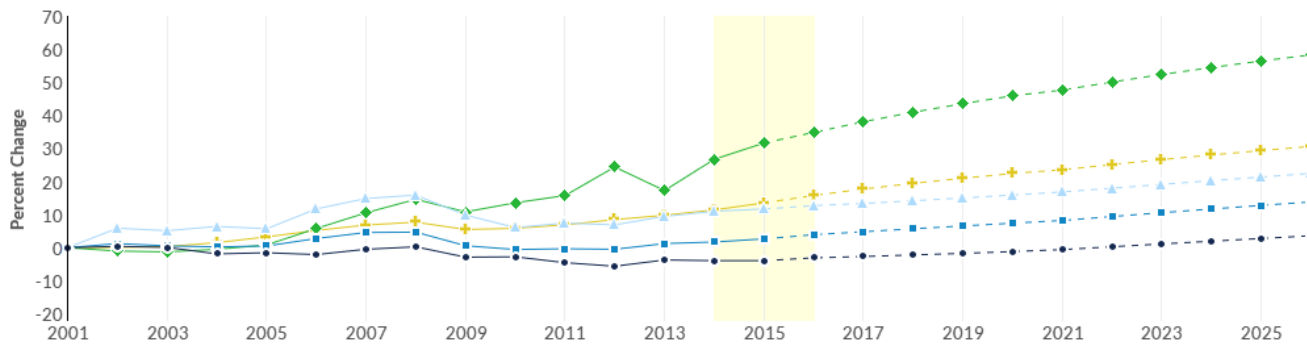
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<b>Occupation</b>	<b>25th Percentile Earnings</b>	<b>Median Earnings</b>	<b>75th Percentile Earnings</b>
Geographers (19-3092)	\$0.00	\$0.00	\$0.00

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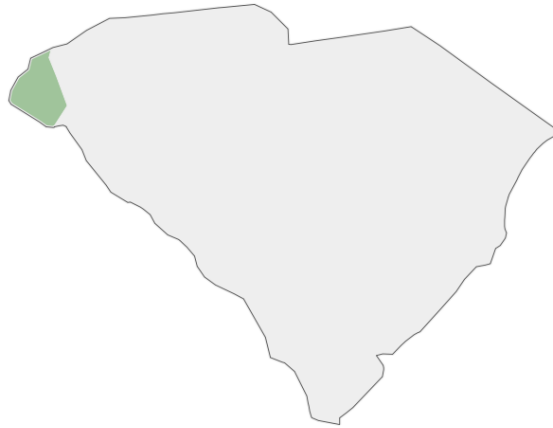
# Regional Trends



	Region	2014 Jobs	2016 Jobs	Change	% Change
●	Region	3,207	3,235	28	0.9%
■	Oconee Labor Shed	25,890	26,457	567	2.2%
▲	Pickens County, SC	5,705	5,793	88	1.5%
◆	Greenville County, SC	30,759	32,736	1,977	6.4%
+	United States	18,790,940	19,530,921	739,981	3.9%

## Regional Breakdown

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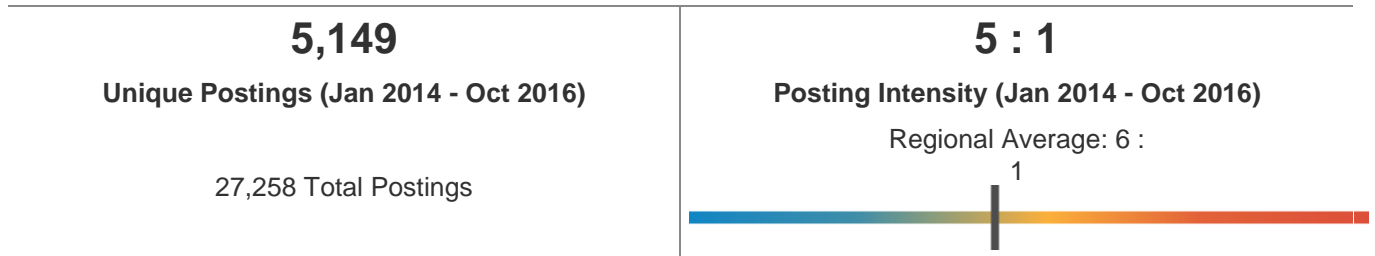
\* Highlighted areas show counties that contain the selected zip codes

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<b>ZIP</b>	<b>2016 Jobs</b>
Walhalla, SC 29691 (in Oconee county)	1,025
Seneca, SC 29678 (in Oconee county)	873
Seneca, SC 29672 (in Oconee county)	560
Westminster, SC 29693 (in Oconee county)	279
Seneca, SC 29679 (in Oconee county)	258

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## Job Postings Summary



There were **27,258** total job postings for your selection from January 2014 to October 2016, of which **5,149** were unique. These numbers give us a Posting Intensity of **5-to-1**, meaning that for every 5 postings there is 1 unique job posting. This is close to the Posting Intensity for all other occupations and companies in the region (6-to-1), indicating that they are putting average effort toward hiring for this position.

# Occupation Gender Breakdown

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	Gender	2016 Jobs	2016 Percent	
•	Males	1,705	52.7%	
•	Females	1,530	47.3%	

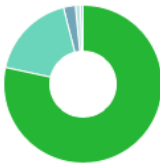
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# Occupation Age Breakdown



	Age	2016 Jobs	2016 Percent
●	14-18	10	0.3%
●	19-24	219	6.8% ■
●	25-34	696	21.5% ■■
●	35-44	647	20.0% ■■
●	45-54	872	27.0% ■■■
●	55-64	668	20.6% ■■
●	65+	123	3.8% ■

# Occupation Race/Ethnicity Breakdown



	Race/Ethnicity	2016 Jobs	2016 Percent
●	White	2,536	78.4%
●	Black or African American	570	17.6%
●	Hispanic or Latino	78	2.4%
●	Asian	32	1.0%
●	Two or More Races	14	0.4%
●	American Indian or Alaska Native	4	0.1%
●	Native Hawaiian or Other Pacific Islander	0	0.0%

# Occupational Programs

<b>0</b> Programs (2015)	<b>0</b> Completions (2015)	<b>128</b> Openings (2015)
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## Industries Employing 102 Occupations

Industry	Occupation Group Jobs in Industry (2016)	% of Occupation Group in Industry (2016)	% of Total Jobs in Industry (2016)
Hospitals (Local Government)	519	16.0%	52.3%
Nuclear Electric Power Generation	313	9.7%	22.0%
Elementary and Secondary Schools (Local Government)	288	8.9%	18.0%
Local Government, Excluding Education and Hospitals	237	7.3%	23.7%
Offices of Physicians (except Mental Health Specialists)	215	6.7%	39.7%



# Appendix A - Occupations

Code	Description
11-3051	Industrial Production Managers
11-9013	Farmers, Ranchers, and Other Agricultural Managers
11-9033	Education Administrators, Postsecondary
11-9041	Architectural and Engineering Managers
11-9121	Natural Sciences Managers
11-9161	Emergency Management Directors
11-9199	Managers, All Other
13-1041	Compliance Officers
13-2051	Financial Analysts
13-2099	Financial Specialists, All Other
15-1111	Computer and Information Research Scientists
15-1131	Computer Programmers
15-1132	Software Developers, Applications
15-1199	Computer Occupations, All Other
15-2041	Statisticians
17-2011	Aerospace Engineers
17-2021	Agricultural Engineers
17-2031	Biomedical Engineers
17-2041	Chemical Engineers
17-2051	Civil Engineers
17-2071	Electrical Engineers
17-2081	Environmental Engineers
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors
17-2141	Mechanical Engineers
17-2199	Engineers, All Other
17-3025	Environmental Engineering Technicians
17-3027	Mechanical Engineering Technicians
19-1011	Animal Scientists
19-1012	Food Scientists and Technologists
19-1013	Soil and Plant Scientists

<b>Code</b>	<b>Description</b>
19-1021	Biochemists and Biophysicists
19-1022	Microbiologists
19-1023	Zoologists and Wildlife Biologists
19-1029	Biological Scientists, All Other
19-1031	Conservation Scientists
19-1041	Epidemiologists
19-1042	Medical Scientists, Except Epidemiologists
19-2012	Physicists
19-2031	Chemists
19-2041	Environmental Scientists and Specialists, Including Health
19-3091	Anthropologists and Archeologists
19-3092	Geographers
19-3093	Historians
19-4011	Agricultural and Food Science Technicians
19-4021	Biological Technicians
19-4051	Nuclear Technicians
19-4061	Social Science Research Assistants
19-4091	Environmental Science and Protection Technicians, Including Health
19-4092	Forensic Science Technicians
19-4093	Forest and Conservation Technicians
25-1099	Postsecondary Teachers
25-2031	Secondary School Teachers, Except Special and Career/Technical Education
25-3099	Teachers and Instructors, All Other
27-3043	Writers and Authors
27-4021	Photographers
29-1022	Oral and Maxillofacial Surgeons
29-1069	Physicians and Surgeons, All Other
29-1071	Physician Assistants
29-1128	Exercise Physiologists
29-1131	Veterinarians
29-1141	Registered Nurses
29-1151	Nurse Anesthetists

<b>Code</b>	<b>Description</b>
29-1199	Health Diagnosing and Treating Practitioners, All Other
29-2011	Medical and Clinical Laboratory Technologists
29-2012	Medical and Clinical Laboratory Technicians
29-2032	Diagnostic Medical Sonographers
29-2033	Nuclear Medicine Technologists
29-2054	Respiratory Therapy Technicians
29-2055	Surgical Technologists
29-2056	Veterinary Technologists and Technicians
29-2061	Licensed Practical and Licensed Vocational Nurses
29-2099	Health Technologists and Technicians, All Other
29-9011	Occupational Health and Safety Specialists
29-9012	Occupational Health and Safety Technicians
29-9099	Healthcare Practitioners and Technical Workers, All Other
31-1013	Psychiatric Aides
31-1014	Nursing Assistants
31-1015	Orderlies
31-9092	Medical Assistants
31-9093	Medical Equipment Preparers
31-9095	Pharmacy Aides
31-9096	Veterinary Assistants and Laboratory Animal Caretakers
31-9097	Phlebotomists
31-9099	Healthcare Support Workers, All Other
33-1012	First-Line Supervisors of Police and Detectives
33-3021	Detectives and Criminal Investigators
33-3031	Fish and Game Wardens
33-3051	Police and Sheriff's Patrol Officers
33-9021	Private Detectives and Investigators
33-9093	Transportation Security Screeners
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products
43-9111	Statistical Assistants
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers
47-2061	Construction Laborers

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<b>Code</b>	<b>Description</b>
47-4041	Hazardous Materials Removal Workers
49-3023	Automotive Service Technicians and Mechanics
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists
49-9062	Medical Equipment Repairers
51-8031	Water and Wastewater Treatment Plant and System Operators
51-8099	Plant and System Operators, All Other
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers
51-9082	Medical Appliance Technicians

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# Appendix B - Data Sources and Calculations

## Location Quotient

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

## Occupation Data

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

## CareerBuilder/Emsi Job Postings

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

## Completers Data

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

## Institution Data

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

## State Data Sources

This report uses state data from the following agencies: Alabama Department of Industrial Relations; Alaska Department of Labor and Workforce Development; Arizona Department of Administration, Office of Employment and Population Statistics; Arkansas Department of Workforce Services; California Labor Market Information Department; Colorado Department of Labor and Employment; Connecticut did not provide us with a data source; Delaware Office of Occupational and Labor Market Information, Delaware Wages 2004; District of Columbia Department of Employment Services; Florida Department of Economic Opportunity; Georgia Department of Labor, Workforce Information and Analysis, Occupational Information Services Unit; Hawaii Department of Labor and Industrial Relations, Research and Statistics Office; Idaho Department of Labor; Illinois Department of Employment Security, Employment Projections; Indiana Department of Workforce Development; Iowa Workforce Development; Kansas Department of Labor, Labor Market Information Services, Kansas Wage Survey; Kentucky Office of Employment and Training; Louisiana Department of Labor; Maine did not provide us with a data source; Maryland Department of Labor, Licensing and Regulation, Office of Labor Market Analysis and Information; Massachusetts Executive Office of Labor and Workforce Development; Michigan Department of

Labor and Economic Growth, Bureau of Labor Market Information and Strategic Initiatives; Minnesota Department of Employment and Economic Development; Mississippi Department of Employment Security; Missouri Department of Economic Development; Montana Department of Labor and Industry, Research and Analysis Bureau; Nebraska Workforce Development; Nevada Department of Employment, Training and Rehabilitation, Information Development and Processing Division, Research and Analysis Bureau; New Hampshire Department of Employment Security; New Jersey Department of Labor and Workforce Development; New Mexico Department of Labor, Bureau of Economic Research and Analysis; New York Department of Labor, Division of Research and Statistics; North Carolina Department of Commerce, Labor and Economic Analysis Division; North Dakota Job Service, Labor Market Information Center; Ohio Department of Job and Family Services, Labor Market Information Division; Oklahoma Employment Security Commission; Oregon Employment Department, Oregon Labor Market Information System; Pennsylvania Department of Labor and Industry, Center for Workforce Information and Analysis; Rhode Island did not provide us with a data source; South Carolina Employment Security Commission, Labor Market Information Department; South Dakota Department of Labor, Labor Market Information Division; Tennessee Department of Labor and Workforce Development, Research and Statistics Division; Texas Workforce Commission; Utah Department of Workforce Services; Vermont did not provide us with a data source; Virginia Employment Commission, Economic Information Services; Washington State Employment Security Department, Labor Market and Economic Analysis Branch; West Virginia Bureau of Employment Programs, Research Information & Analysis Division; Wisconsin Department of Workforce Development, Bureau of Workforce Information; Wyoming Department of Employment, Research and Planning