

The Future of STEAM Jobs

(STEAM: Science, Technology, Engineering, Art, and Math)

Top 15 Projected STEAM Occupations in SC, 2012-22

Occupation	2012-22 Growth (%)	2014 Avg. Wage (\$)	Education to Enter Occupation
Statisticians	31.9	27.68	Master's
Nuclear technicians	26.2	33.52	Associate's+Moderate OJT
Ophthalmic laboratory technicians	19.8	14.83	HS/GED+Moderate OJT
Environmental scientists/specialists, inc. health	19.3	28.34	Bachelor's
Audio and video equipment technicians	17.5	18.45	Technical Certificate+Short OJT
Nuclear engineers	16.2	44.09	Bachelor's
Electrical engineers	12.4	39.64	Bachelor's
Industrial engineering technicians	10.8	23.71	Associate's
Commercial and industrial designers	10.4	34.68	Bachelor's
Architectural and engineering managers	10.4	58.15	Bachelor's+More than 5 yrs. exp.
Industrial engineers	8.7	38.07	Bachelor's
Mechanical engineers	7.7	41.21	Bachelor's
Graphic designers	7.1	19.20	Bachelor's
Photographers	5.7	16.26	HS/GED+Long OJT
Electrical and electronics engineering technicians	3.8	26.99	Associate's

STEAM Occupations Projected to Decline

Social scientists and related workers	-11.5	33.90	Bachelor's
Engineering technicians, except drafters	-4.9	27.83	Associate's
Biological scientists	-4.7	34.12	Bachelor's
Media and communication equipment workers	-1.8	33.69	HS/GED+Short OJT
Conservation scientists	-1.7	25.98	Bachelor's
Aerospace engineers	-1.2	43.82	Bachelor's

Source: SC Dept. of Employment & Workforce, Business Intelligence Department; Education from the US Bureau of Labor Statistics

Top Soft Skills and Certifications from STEAM Online Job Advertisements, June-Aug. 2015

Soft Skills	Certifications
Oral and written communication skills	Occupational Safety & Health Administration Certification
Troubleshooting	Top Secret Sensitive Compartmented Information
Team-oriented, teamwork	Project Management Professional
Analytical skills	Professional Engineer
Quality Assurance	EPA certification
Microsoft Office	Accreditation Board for Engineering and Technology
Detail oriented	Continuing Education
Problem solving	Board Certified
Self-starting / Self-motivated	Certified Public Accountant
Critical thinking	Driver's License

Information about certifications can be found at www.careeronestop.org/EducationTraining/Find/certification-finder.aspx

Source: The Conference Board's Help Wanted Online® data series



For more information: SC Department of Employment and Workforce, Business Intelligence Department, www.scWorkforceInfo.com, 803-737-2660

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Projected STEAM Occupations in SC by Education Level, 2012-22

Occupation	2012-22 Growth (%)	2014 Avg. Wage (\$)	Education to Enter Occupation
Ophthalmic laboratory technicians	19.8	14.83	HS/GED+Moderate OJT
Dental laboratory technicians	10.2	17.13	HS/GED+Moderate OJT
Media and communication workers, all other	7.9	21.83	HS/GED+Short OJT
Medical appliance technicians	6.6	19.23	HS/GED+Long OJT
Photographers	5.7	16.26	HS/GED+Long OJT
Sound engineering technicians	18.4	19.13	Technical Certificate+Short OJT
Audio and video equipment technicians	17.5	18.45	Technical Certificate+Short OJT
Nuclear technicians	26.2	33.52	Associate's+Moderate OJT
Avionics technicians	17.7	27.11	Associate's
Industrial engineering technicians	10.8	23.71	Associate's
Mechanical engineering technicians	6.8	24.85	Associate's
Electrical and electronics engineering technicians	3.8	26.99	Associate's
Chemical technicians	3.0	20.32	Associate's+Moderate OJT
Broadcast technicians	2.5	16.36	Associate's+Short OJT
Environmental scientists/specialists, inc. health	19.3	28.34	Bachelor's
Technical writers	17.1	31.65	Bachelor's+Short OJT
Nuclear engineers	16.2	44.09	Bachelor's
Electrical engineers	12.4	39.64	Bachelor's
Film and video editors	10.8	17.67	Bachelor's
Commercial and industrial designers	10.4	34.68	Bachelor's
Art directors	9.8	24.19	Bachelor's+More than 5 yrs. exp.
Multimedia artists and animators	9.1	24.36	Bachelor's+Moderate OJT
Health and safety engineers, exc. mining	8.8	32.12	Bachelor's
Industrial engineers	8.7	38.07	Bachelor's
Mechanical engineers	7.7	41.21	Bachelor's
Camera operators, TV/video/motion picture	7.6	18.77	Bachelor's
Graphic designers	7.1	19.20	Bachelor's
Museum technicians and conservators	6.9	17.16	Bachelor's
Microbiologists	6.1	30.82	Bachelor's
Forensic science technicians	4.7	20.47	Bachelor's+Moderate OJT
Chemists	4.6	34.98	Bachelor's
Geoscientists	2.7	21.07	Bachelor's
Physical scientists, all other	1.7	49.15	Bachelor's
Chemical engineers	1.5	42.55	Bachelor's
Statisticians	31.9	27.68	Master's
Survey researchers	20.7	24.99	Master's
Economists	2.8	32.66	Master's
Hydrologists	2.7	28.57	Master's
Biochemists and biophysicists	24.1	28.21	Doctoral

HS/GED = high school diploma or GED; OJT = on-the-job-training; yrs. exp. = years experience in a related occupation

Source: SC Dept. of Employment & Workforce, Business Intelligence Department; Education from the US Bureau of Labor Statistics