The Future of STEAM Jobs

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

Top 15 Projected S	STEAM Occupations i	n SC, 2012-22

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	2012-22	2014 Avg.	Education to Enter Occuration
Occupation	Growth (%)	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	

 $Information\ about\ certifications\ can\ be\ found\ at\ www. career one stop. or g/Education Training/Find/certification-finder. as px$

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 September 2015

Projected STEAM Occupa	ations in SC by I	Education Lev	vel, 2012-22	
	2012-22	2014 Avg.		
Occupation	Growth (%)	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/GFD = high school diploma or GFD: OIT = on-the-ioh-training: vrs. exp. = years experience in a related occupation				

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