

The Future of STEM Jobs

Top 15 STEM Projected Occupations in SC, 2010-20

STEM Occupation	2010-20 SC Growth Rate	2012 Avg. Hrly. Wage in SC (\$)	Education Usually Required to Enter Occupation
Biomedical Engineers	76.1	35.59	Bachelor's
Audiologists	54.8	40.81	Doctorate
Veterinary Technologists and Technicians	54.4	14.76	Associate's
Medical Scientists, Except Epidemiologists	47.1	39.61	Doctorate
Diagnostic Medical Sonographers	40.3	27.81	Associate's
Software Developers, Systems Software	38.0	36.60	Bachelor's
Dental Hygienists	37.6	26.58	Associate's
Biochemists and Biophysicists	34.1	36.53	Doctorate
Physical Therapists	33.7	35.97	Doctorate
Software Developers, Applications	32.4	37.15	Bachelor's
Optometrists	31.5	62.24	Doctorate
Surveyors	30.5	27.56	Bachelor's
Network and Computer Systems Administrators	30.4	31.39	Bachelor's
Pharmacy Technicians	30.4	13.59	HS/GED + Moderate OJT
Database Administrators	29.9	30.37	Bachelor's + 1-5 yrs. exp.

STEM Occupations Projected to Decline

Forest and Conservation Technicians	-4.0	16.69	Associate's degree
Economists	-4.1	32.61	Bachelor's degree
Petroleum Engineers	-9.6	n/a	Bachelor's degree
Mining and Geological Engineers, Including Mining	-12.9	n/a	Bachelor's degree
Geoscientists, Except Hydrologists and Geographers	-14.2	18.53	Bachelor's degree

Source: SC Dept. of Employment & Workforce, Labor Market Information; Education from the US Bureau of Labor Statistics

Top Soft Skills & Certifications from STEM Online Job Ads, September 2013

Soft Skills	Certifications
Oral and written communication skills	Certified Registered Nurse
Troubleshooting	Basic Life Support
Problem solving	Certification in Cardiopulmonary Resuscitation
Quality Assurance	Advanced Cardiac Life Support
Microsoft Office	Licensed Practical Nurse
Project Management	Top Secret Sensitive Compartmented Information
Microsoft SQL Server	Physical Therapist Certification
Technical support	Health Insurance Portability and Accountability Act - HIPPA
Integrity	Occupational Safety & Health Administration Certification
Work independently	Pediatric Advanced Life Support

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

Projected STEM Occupations in SC By Education Level, 2010-20

STEM Occupation	2010-20 SC Growth Rate	2012 Avg. Hrly. Wage in SC (\$)	Education Usually Required to Enter Occupation
Pharmacy Technicians	30.4	13.59	HS/GED + Moderate OJT
Surveying and Mapping Technicians	16.9	18.44	HS/GED + Moderate OJT
Dietetic Technicians	14.0	11.02	HS/GED + Moderate OJT
Occupational Health and Safety Technicians	11.3	26.64	HS/GED + Moderate OJT
Computer User and Network Support Specialists	16.8	21.30	Some college + Moderate OJT
Veterinary Technologists and Technicians	54.4	14.76	Associate's
Diagnostic Medical Sonographers	40.3	27.81	Associate's
Dental Hygienists	37.6	26.58	Associate's
Cardiovascular Technologists and Technicians	27.8	22.95	Associate's
Respiratory Therapists	25.8	25.39	Associate's
Registered Nurse	24.7	28.33	Associate's
Environmental Engineering Technicians	24.3	28.30	Associate's
Radiation Therapists	20.1	38.33	Associate's
Nuclear Medicine Technologists	15.8	31.33	Associate's
Civil Engineering Technicians	15.6	23.28	Associate's
Nuclear Technicians	21.2	30.34	Associate's + Moderate OJT
Biomedical Engineers	76.1	35.59	Bachelor's
Software Developers, Systems Software	38.0	30.61	Bachelor's
Software Developers, Applications	32.4	37.15	Bachelor's
Surveyors	30.5	27.56	Bachelor's
Network and Computer Systems Administrators	30.4	31.39	Bachelor's
Environmental Scientists and Specialists, Includin	24.0	31.04	Bachelor's
Info.Security, Web Developers, Computer Network Architects	23.9	32.93	Bachelor's + 1-5 yrs. exp.
Database Administrators	29.9	30.37	Bachelor's + 1-5 yrs. exp.
Architects, Except Landscape and Naval	27.7	31.58	Bachelor's + Internship
Physician Assistants	27.3	41.09	Master's
Occupational Therapists	26.2	35.16	Master's
Exercise Physiologists	26.2	20.42	Master's
Hydrologists	24.6	29.02	Master's
Speech-Language Pathologists	18.7	30.10	Master's
Audiologists	54.8	40.81	Doctorate
Medical Scientists, Except Epidemiologists	47.1	39.61	Doctorate
Biochemists and Biophysicists	34.1	36.53	Doctorate
Physical Therapists	33.7	35.97	Doctorate
Optometrists	31.5	62.24	Doctorate
Pediatricians, General	28.9	74.39	Doctorate

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

Source: SC Dept. of Employment & Workforce, Labor Market Information; Education from the US Bureau of Labor Statistics



For more information:

SC Department of Employment and Workforce, Labor Market Information

www.scWorkforceInfo.com, 803-737-2660

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