

STEM Career Connections to Tennessee Science Standards

Grade Level	Career Connection	Standards	Career Cluster
6	Mechanical Engineer	6.PS3.1-3 6.ETS1.2	Architecture and Engineering
6	Thermal Engineer	6.PS3.4	Architecture and Engineering
6	Ecologist	6.LS2.1-2 and 7	Life, Physical, and Social Science
6	Wildlife Biologist	6.LS2.3	Agriculture, Life, Physical, and Social Science
6	Climate Ecologist	6.LS2.4	Life, Physical, and Social Science
6	Park Ranger	6.LS2.5 & 6	Agriculture, Life Science
6	Conservation Biologist	6.LS4.1 & 2	Agriculture, Life, Physical, and Social Science
6	Geologist	6.ESS2.1 & 2	Life, Physical, and Social Science
6	Atmospheric and Space Scientists	6.ESS2.3	Life, Physical, and Social Science
6	Environmental Engineer	6.ESS2.4	Agriculture, Architecture and Engineering
6	Meteorologist	6.ESS2.5 & 6	Life, Physical, and Social Science
6	Petroleum Engineer	6.ESS3.1 & 2	Architecture and Engineering
6	Conservation Biologist	6.ESS3.3	Agriculture, Life, Physical, and Social Science
6	Environmental Engineer	6.ETS1.1	Architecture and Engineering

Grade Level	Career Connection	Standards	Career Cluster
7	Chemical Engineer, Materials Scientist, Hazardous Waste Scientist	7.PS1.1-6	Life, Physical, and Social Science
7	Biochemist	7.LS1.1-4	Health Science, BioSTEM
7	Cardiologist, Infectious Disease Specialist, Doctor	7.LS1.5	Health Science, BioSTEM
7	Wildlife Biologist	7.LS1.6	Life, Physical, and Social Science
7	Biochemist, Biophysicist, Genetic Specialist, Medical Scientist	7.LS1.7 & 8	Health Science, BioSTEM
7	Soil and Plant Scientists	7.LS1.9 7.LS2.1	Health Science, BioSTEM
7	Genetic Counselor, Research Scientist, Oncology,	7.LS3.1	Health Science, BioSTEM
7	Microbiologist	7.LS3.2	Health Science, BioSTEM
7	Cytogenetic Technologist	7.LS3.3	Health Science, BioSTEM
7	Meteorologist, Researcher	7.ESS3.1	Life, Physical, and Social Science
7	Environmental Scientist, Conservationist, Forest Ranger, Urban Forester	7.ESS3.2	Agriculture, Life, Physical, and Social Science
7	Biomedical Engineer	7.ETS2.1	Health Science

Grade Level	Career	Standards	Career Cluster
8	Electrical Engineer	8.PS2.1 & 2	Architecture, Engineering, Transportation
8	Physicist, Automotive Materials Engineer	8.PS2.3 & 5	Life, Physical, and Social Science
8	Accelerator Operator	8.PS2.4	Advanced Manufacturing
8	Electronic Engineer, Seismologist, Oceanographer	8.PS4.1-3	Architecture and Engineering
8	Paleontologist, Forensic Scientist	8.LS4.1	Life, Physical, and Social Science
8	Paleoecologist	8.LS4.2 & 3	Agriculture, Physical, and Social Science
8	Wildlife Biologist	8.LS4.4	Agriculture, Physical, and Social Science
8	Genetic Engineer	8.LS4.5	Architecture and Engineering
8	Astronomer	8.ESS1.1 & 2	Life, Physical, and Social Science
8	Conservation Officer	8.ESS2.1	Agriculture, Life, Physical, and Social Science
8	Seismologist	8.ESS2.2	Life, Physical, and Social Science
8	Geologist , Petroleum Engineer	8.ESS2.3	Life, Physical, and Social Science
8	Marine Geologist	8.ESS2.4 & 5	Life, Physical, and Social Science
8	Fuel Cell Engineer	8.ESS3.1	Architecture and Engineering
8	Geophysicist	8.ESS3.2	Life, Physical, and Social Science
8	Robotic Engineer	8.ETS1.1	Architecture and Engineering
8	Satellite Imagery Specialist	8.ETS1.2	Advanced Manufacturing