

STEM Career Connections to K-5 Science Standards

Grade Level	Career Connection	Standards	Career Cluster
K	Entomologist	K.LS1.1-3	Not included
K	Dieticians & Nutritionists	K.LS1.1 & K.LS1.3	Health Science
K	Foresters	K.LS1.2	Life, Physical, and Social Science
K	Veterinarian	K.ESS3.1	Health Sciences & Agricultural
K	Animal scientists	K.ESS3.1	Life, Physical, and Social Science
K	Landscape architect	K.ESS3.1	Architecture and Engineering
K	Meteorologist	K.ESS2.1 & 2 K.ESS3.2	Science, Technology, Engineering, & Mathematics
K	Environmental Engineers	K.ESS2.1 & 2 K.ESS3.1-3	Architecture and Engineering
K	Mining and Geological Engineers, Including Mining Safety Engineers	K.ESS3.3	Architecture and Engineering
K	Hydrologist	K.ESS3.1-3	Life, Physical, and Social Science
K	Conservation Scientists	K.ESS3.3	Life, Physical, and Social Science
K	Materials Scientist	K.PS1.1-3	Life, Physical, and Social Science
K	Carpenter	K.PS1.1	Architecture & Construction
K	Welder	KPS1.2	Advanced Manufacturing

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Grade Level	Career Connection	Standards	Career Cluster
1st	Forester	1.LS1.1-3	Life, Physical, and Social Science
1 st	Agriculture Engineer		Architecture and Engineering
1st	Agriculture Equipment Operator		Architecture and Engineering
1 st	Soil and Plant Scientists	1.LS2.1-3	Life, Physical, and Social Science
1st	Aerospace Engineering and Operations Technicians	1.ESS1.1 &2	Architecture and Engineering
1st	Meteorologist	1.ESS1.3	Science, Technology, Engineering, & Mathematics
1st	Astronomer	1.ESS1.1 &2	Life, Physical, and Social Science
1 st	Photonics Engineer	1.PS4.1 and 2	Architecture and Engineering
1st	radiologic technologists	1.PS4.1 and 2	Medical
1st	Optometrist	1.PS4.1 and 2	Medical
1 st	Mechanical Engineer (Renewable Energy)	1.PS3.1	Architecture and Engineering
1st	Electrical Engineer (Renewable Energy)	1.PS3.1	Architecture and Engineering



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Grade Level	Career Connection	Standards	Career Cluster
2nd	Biologist	2.LS1, LS2 and LS3: all standards	Life, Physical, and Social Science
2nd	Entomologist	2.LS2: 1 &2	Life, Physical, and Social Science
2 nd	Population Biologist	2.LS1.2	Life, Physical, and Social Science
2 nd	Herpetologist	2. LS1.2	Life, Physical, and Social Science
2 nd	Veterinarian	2.LS3.1	Medical and Agricultural
2nd	Paleontologist	2.LS2.2	Life, Physical, and Social Science
2nd	Geologist	2.ESS2.1-4	Life, Physical, and Social Science
2nd	Architectural Engineer	2.ESS2.1	Architecture and Engineering
2nd	Civil Engineers	2.ESS2.1-4	Architecture and Engineering
2nd	Construction Manager	2.PS2:1-3	Architecture & Construction
2nd	Automotive design engineers	2.PS3.1 & 2	Manufacturing
2 nd	Broadcast Engineers	2.PS4.1-3	Audio/Visual Production
2nd	Satellite Operator	2.PS4.1-3	Audio/Visual Production

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3rd	Botanist	3.LS4.1-3	Life, Physical, and Social Science
3rd	Zoologist	3.LS1.1 3.LS2.1	Life, Physical, and Social Science
3rd	Aquatic Biologist	3.LS1.1 3.LS2.1	Science, Technology, Engineering, & Mathematics
3rd	Ornithologist	3.LS4.1-3	Life, Physical, and Social Science
3rd	Astronomer	3.ESS1.1	Life, Physical, and Social Science
3rd	Astronaut	3.ESS1.1	Science, Technology, Engineering, & Mathematics and Engineering
3rd	Satellite Operator	3.ESS1.1	Audio/Visual Production
3rd	Atmospheric Scientist	3.ESS2.1-4	Life, Physical, and Social Science
3rd	Hydrologist	3.ESS2.1-4	Agriculture, Food, & Natural Resources and Veterinary & Animal Science
3rd	Climatologist	3.ESS2.1-4	Science, Technology, Engineering, & Mathematics
3rd	Geologist	3.PS1.1-3	Science, Technology, Engineering, & Mathematics
3rd	Lapidary	3.PS1.1-3	Not Included
3rd	Chemist	3.PS1.1-3	Life, Physical, and Social Science
3rd	Materials Engineer	3.PS1.1-3	Architecture and Engineering
3rd	Physicist	3.PS2.1 & 2	Life, Physical, and Social Science
3rd	Transportation Engineer (Maglev Trains)	3.PS2.1 & 2 3.PS3.3	Transportation, Distribution, & Logistics
3rd	(Roller Coaster) Engineer	3.PS2.1 & 2	Not Included
3rd	Electrical Engineer	3.PS3.1 & 2	Architecture and Engineering

3rd	Electronics Engineer	3.PS3.1& 2	Architecture and Engineering
3rd	Electro-mechanical Technician	3.PS3.1& 2	Architecture and Engineering
3rd	Thermal Engineer	3.PS3.1& 2	Architecture and Engineering

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Grade Level	Career Connection	Standards	Career Cluster
4th	Microbiologist	4.LS.2.1-5 and 4.LS.4.1	Agriculture, Food, & Natural Resources And Environmental & Natural Resource Management
4 th	Population Biologist	4.LS2.5	Science, Technology, Engineering, & Mathematics And Technology
4th	Botanist	4.LS2.1	Not Included
4th	Environmental Scientist	4.LS2.1-5	Life, Physical, and Social Science
4th	Wildlife Conservationist	4.LS2.1-5	Life, Physical, and Social Science
4th	Biomimicry Engineer	4.LS2.5	Not included
4th	Forester	4.ESS2.1-3	Life, Physical, and Social Science
4th	Geological and Petroleum Technicians	4.ESS2.1-4	Life, Physical, and Social Science
4th	Cartographer	4.ESS2.2	Architecture and Engineering
4th	Geographic Information Specialist	4.ESS2.2	Not included
4th	Soil Conservationist	4.ESS3.2	Life, Physical, and Social Science
4th	Agricultural Engineer	4.ESS3.2	Agriculture
4th	Geoscientist	4.ESS2.4	Life, Physical, and Social Science
4th	Radiologic technologists	4.PS3.1-3	Medical
4th	Micro paleontologist	4.LS4.1	Life, Physical, and Social Science
4th	Computer Scientist	4.ETS2.2 & 3	Computer and Mathematical
4th	Mathematician	4.ESS21 & 4 (And others associated with data)	Computer and Mathematical
4th	Mechanical Engineer	4.PS3.1-3	Architecture and Engineering

4th	Automotive Engineer	4.PS3.1-3	Advanced Manufacturing
4th	Biomechanical Engineer	4.PS3.1-3	Not included
4th	Electronics Engineer	4.PS3.1-3	Architecture and Engineering
4th	Telecommunications Engineer	4.PS4.1-3	Science, Technology, Engineering, & Mathematics
4th	Ultrasound technician	4.PS4.1-3	Medical

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Grade Level	Career Connection	Standards	Career Cluster
5th	Neurologist	5.LS1.1 & 5.LS3.1	Medical
5th	Wildlife Biologist	5.LS1.1 5.LS3.1& 2 5.LS4.2	Life, Physical, and Social Science
5th	Biophysicists	5.LS1.1 5.LS3.1& 2 5.LS4.2	Life, Physical, and Social Science
5th	Veterinarian	5.LS1.1 5.LS3.1& 2	Agriculture and Medical
5th	Geneticist	5.LS3.1 & 2 5.LS4.2	Medical
5th	Field Biologist	5.LS1.1 5.LS3.1& 2 5.LS4.1& 2	Life, Physical, and Social Science
5th	Biotechnician	5.LS1.1 5.LS3.1& 2 5.LS4.1& 2	Not included
5th	Geologist	5.ESS1.7 5.PS1.1-5 5.ESS1.3	Science, Technology, Engineering, & Mathematics
5th	Museum Curator	5.LS4.1 & 2	Not included
5th	Anthropologist	5.LS4.1 & 2	Life, Physical, and Social Science
5th	Archeologists	5.LS4.1 & 2	Life, Physical, and Social Science
5th	Paleontologist	5.LS4:1 &2	Life, Physical, and Social Science
5th	Astronomers	5.ESS1.1-6	Life, Physical, and Social Science
5th	Materials Engineer	5.PS1.1-4	Architecture and Engineering
5th	Metallurgist	5.PS1.1-4	Not included
5th	Chemists	5.PS1.1-4	Life, Physical, and Social Science

5th	Architectural Drafter	5.PS2.1-5	Architecture and Engineering
5th	Statistician	5.PS2.1-5	Computer and Mathematical
5th	Demolition expert	5.PS2.1-5	Not included
5th	Packaging Scientist	5.ETS2.3, 5.ETS1.1	Architectural and Engineering Managers