



125 Hopping Brook Road
Holliston, MA 01746-1471

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www.newwa.org

New England Water Works Association Youth Education Committee Classroom Module

Career Education

Summary and Objective

High School teachers often turn to industry professionals for information about careers in their field, especially with respect to a path to those careers (i.e. which degrees are most likely to lead to a job). In addition, an increasing number of students are choosing trades careers because of the general shortage of tradespeople, and because the debt for a 4-5 year college degree is daunting. Currently, a large number of jobs in the water utility profession are held by a graying workforce. Many positions will need to be filled as these water employees retire.

The goal of this module is to provide introductory information about the variety of careers related to the environment, including water utilities. Positions include those in STEM fields: Science, Technology, Engineering, and Math. An ancillary goal is to entice interested and talented students to pursue a water-related career.

Applicable Curriculum Standards

Maine Learning Results, Chapter 132; Career and Education Development
NGSS ETS1, Cross-Cutting Concepts

Recommended Grade Level(s)

9-12

Time Required

1 to 2 class sessions per lesson; may be extended using supplemental resources

Materials and Facilities Required

- Projector and screen
- Clips for attaching information cards to students
- Items such as beads, paperclips, or markers for marking spots in a bingo game (25 for each student)
- Copies of Bingo Cards - 40 different cards included
- Copies of slides describing a career- 52 career slides

Module Contents

1. Module cover
2. Activity descriptions and activity instructions, and set of bingo cards
3. PowerPoint presentation describing 52 careers in the water profession (first slide)
4. Online resources for additional information

Acknowledgements

This module was adapted from Environmental Careers Classroom Activity by the Ohio EPA Office of Environmental Education.



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Careers Education

Environmental Careers Classroom Activity Instructions

This activity introduces 52 different environmental careers, each with an example of something a person with that career might do. The activity can be presented in two ways, as a bingo game or an interactive guessing game. Download career slides, bingo cards, and other resources on environmental careers at <http://epa.ohio.gov/oe/EnvironmentalEducation.aspx> under the environmental education tab, "environmental education resources" link.

Environmental Careers Bingo

Print out as many bingo cards as you need from the set of 40 posted online, printing one or two cards per page. Gather enough beads, paper dots or other small items to use as markers. Give each student a bingo card and up to 24 markers. As you show each slide, have a student read the example of what a person in that career might do. (Note that the examples are only on the slides, not on the bingo cards.) As each slide is visible on the screen, students place a marker bead to cover that career if it shows on their card. The first student who covers five in a row horizontally, vertically or diagonally wins.

"What's My Career?" Mixer

Print slides two to a page, cut apart, and use small binder clips or tape to fasten a different career card to each student's back so the student cannot see the picture and example. Have students move around the room asking each other one yes-or-no question to try to figure out what their mystery career is.

Sample questions might be: "Do I work outside?" "Do I work with animals?" "Do I need special clothes?" Students should sit down when they think they have guessed their career. Once most students are sitting, have each read the example from their career card, and tell the class what they might like or not like about that career.

Extension Activity


Have students view the slides, and select an environmental career they'd like, along with a career they did not know existed. Have students research the salary and training requirements for their two careers, starting with the US Bureau of Labor Statistics <http://www.bls.gov/ooh/home.htm>.

Contact Will Walkup at walkupw@bv.com or the New England Water Works Association with any questions or feedback, or for more information.

B I N G O

Biological Science Technician 	Biological Laboratory Technician 	Geoenvironmental Scientist 	Urban and Regional Planner 	Soil Scientist 
Microbiologist 	Wildlife Educator 	Energy Consultant 	Risk Assessor 	Hydrogeologist 
Civil Engineer Solid Waste Management 	Civil Engineer Wastewater Treatment 	Free Space	Arborist, Urban Forester 	Wildlife Biologist 
Geologist 	Game Warden, Wildlife Officer 	Naturalist 	Environmental Scientist: Drinking Water 	Soil Conservationist 
Communications Specialist 	City/County Recycling Coordinator 	Solar Energy Technician 	Biologist 	Environmental Engineer 

B I N G O

Pollution Control Equipment Technician 	Environmental Scientist: Drinking Water 	Soil Conservationist 	Energy Consultant 	Emergency Responder 
Hydrogeologist 	Certified Operator 	Arborist, Urban Forester 	Environmental Inspector 	Risk Assessor 
Environmental Scientist: Air Quality 	Geoenvironmental Scientist 	Free Space	City/County Recycling Coordinator 	Naturalist 
Environmental Engineer 	Atmospheric Scientist 	Emergency Responder 	Cartographer 	Soil Scientist 
Chemical Laboratory Technician 	Urban and Regional Planner 	Environmental Scientist: Wetlands 	Biological Science Technician 	Game Warden, Wildlife Officer 

B I N G O

Environmental Inspector 	Environmental Engineer 	Recycling Facility Manager 	Environmental Health and Safety Manager 	Conservationist 
Game Warden, Wildlife Officer 	Cartographer 	Chemist 	Biological Laboratory Technician 	Arborist, Urban Forester 
Marine Biologist 	Communications Specialist 	Free Space	Soil Scientist 	Civil Engineer Wastewater Treatment 
Hydrogeologist 	Ecologist 	Biological Science Technician 	Urban and Regional Planner 	Environmental Scientist: Wetlands 
Environmental Scientist: Drinking Water 	Soil Conservationist 	Fish and Wildlife Technician 	Epidemiologist 	Civil Engineer Storm Water Management 

B I N G O

Environmental Inspector 	Chemist 	Hydrologic Technician 	Environmental Health and Safety Manager 	Solar Energy Technician 
City/County Recycling Coordinator 	Geoenvironmental Scientist 	Epidemiologist 	Forester 	Cartographer 
Arborist, Urban Forester 	Hydrogeologist 	Free Space	Soil Scientist 	Ecologist 
Civil Engineer Solid Waste Management 	Environmental Educator 	Hydrologic Technician 	Energy Consultant 	Civil Engineer Wastewater Treatment 
Soil Conservationist 	Hazardous Material Removal Worker 	Emergency Responder 	Biologist 	Wildlife Educator 

B I N G O

Geographer



Emergency Responder



Cartographer



**Arborist,
Urban Forester**



**Civil Engineer
Storm Water
Management**



Forester



**Hydrologic
Technician**



Conservationist



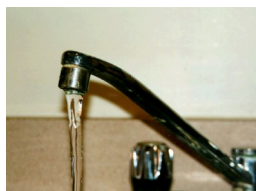
**Chemical
Laboratory
Technician**



**Hazardous
Material
Removal Worker**



**Certified
Operator**



Soil Scientist



**Free
Space**

**Sustainability
Coordinator**



**Soil
Conservationist**



Hydrologist



**Environmental
Health and
Safety Manager**



**Environmental
Inspector**



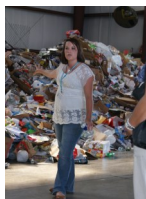
**Civil Engineer
Solid Waste
Management**



**Game Warden,
Wildlife Officer**



**City/County
Recycling
Coordinator**



**Energy
Consultant**



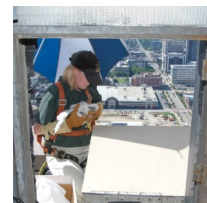
**Wildlife
Biologist**



**Solar Energy
Technician**



**Wildlife
Educator**



B I N G O

Soil Conservationist 	Civil Engineer Solid Waste Management 	Forester 	Naturalist 	Recycling Facility Manager 
Pollution Control Equipment Technician 	Ecologist 	Hydrogeologist 	City/County Recycling Coordinator 	Civil Engineer Storm Water Management 
Environmental Scientist: Wetlands 	Urban and Regional Planner 	Free Space	Hydrologist 	Environmental Health and Safety Manager 
Ecologist 	Biologist 	Environmental Educator 	Soil Conservationist 	Soil Scientist 
Risk Assessor 	Solar Energy Technician 	Fish and Wildlife Technician 	Chemist 	Atmospheric Scientist 

B I N G O

Communications Specialist



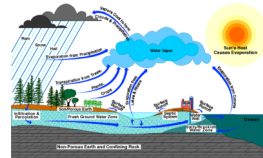
Biologist



Chemical Laboratory Technician



Hydrogeologist



Geologist



Arborist, Urban Forester



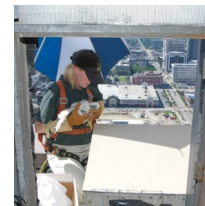
Environmental Scientist: Air Quality



Wildlife Biologist



Wildlife Educator



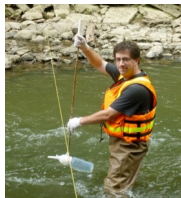
Geographer



Conservationist



Biological Science Technician



Free Space

Naturalist



Hazardous Material Removal Worker



Civil Engineer Solid Waste Management



Environmental Inspector



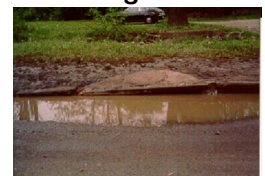
Environmental Health and Safety Manager



Epidemiologist



Civil Engineer Storm Water Management



Urban and Regional Planner



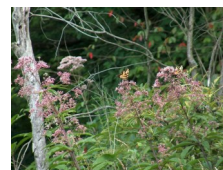
Recycling Facility Manager



Environmental Inspector



Ecologist



Geoenvironmental Scientist



B I N G O

Geographer 	Conservationist 	Geoenvironmental Scientist 	Environmental Scientist: Wetlands 	Urban and Regional Planner 
Environmental Educator 	Forester 	Marine Biologist 	Soil Conservationist 	Wildlife Educator 
Environmental Engineer 	Fish and Wildlife Technician 		Atmospheric Scientist 	Biological Science Technician 
Transportation Engineer 	Certified Operator 	Chemist 	Civil Engineer Solid Waste Management 	Geoenvironmental Scientist 
Chemical Laboratory Technician 	Biological Laboratory Technician 	Hydrologic Technician 	Game Warden, Wildlife Officer 	Communications Specialist 

B I N G O

Ecologist 	Environmental Engineer 	Risk Assessor 	Chemist 	Civil Engineer Solid Waste Management 
Recycling Facility Manager 	Conservationist 	Forester 	Wildlife Biologist 	Transportation Engineer 
City/County Recycling Coordinator 	Wildlife Educator 		Game Warden, Wildlife Officer 	Emergency Responder 
Naturalist 	Solar Energy Technician 	Environmental Engineer 	Atmospheric Scientist 	Chemical Laboratory Technician 
Cartographer 	Hazardous Material Removal Worker 	Pollution Control Equipment Technician 	Sustainability Coordinator 	Civil Engineer Storm Water Management 

B I N G O

Environmental Engineer 	Urban and Regional Planner 	Epidemiologist 	Pollution Control Equipment Technician 	Biologist 
Wildlife Biologist 	Microbiologist 	Soil Scientist 	Atmospheric Scientist 	Geographer 
Chemist 	Naturalist 		Soil Conservationist 	Biological Laboratory Technician 
Risk Assessor 	Atmospheric Scientist 	Hazardous Material Removal Worker 	Hydrologist 	Certified Operator 
Environmental Health and Safety Manager 	Chemical Laboratory Technician 	Wildlife Educator 	Ecologist 	Environmental Scientist: Air Quality 

B I N G O

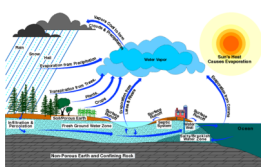
Soil Conservationist 	Geographer 	Urban and Regional Planner 	Pollution Control Equipment Technician 	Chemical Laboratory Technician 
Marine Biologist 	Soil Scientist 	Civil Engineer Storm Water Management 	Civil Engineer Solid Waste Management 	Environmental Inspector 
Emergency Responder 	Hydrogeologist 	Free Space	Sustainability Coordinator 	Hydrologist 
Ecologist 	Fish and Wildlife Technician 	Biological Laboratory Technician 	Atmospheric Scientist 	Environmental Scientist: Drinking Water 
Certified Operator 	Chemist 	Biologist 	Recycling Facility Manager 	Naturalist 

B I N G O

**Urban and
Regional Planner**



Hydrogeologist



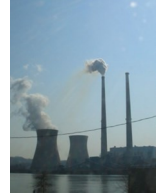
**Game Warden,
Wildlife Officer**



Forester



**Environmental
Engineer**



**Arborist,
Urban Forester**



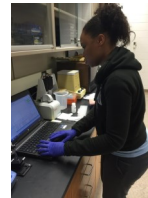
**Marine
Biologist**



**Environmental
Scientist:
Air Quality**



**Biological
Laboratory
Technician**



**Pollution Control
Equipment
Technician**



Geographer



**Chemical
Laboratory
Technician**



**Free
Space**

**Environmental
Scientist:
Wetlands**



Naturalist



**Hazardous
Material
Removal Worker**



**Civil Engineer
Wastewater
Treatment**



Risk Assessor



**Hydrologic
Technician**



**Recycling
Facility Manager**



**Environmental
Scientist:
Air Quality**



**Civil Engineer
Storm Water
Management**



**Environmental
Scientist:
Drinking Water**



**Solar Energy
Technician**



**Soil
Conservationist**



B I N G O

Hydrologist



**Civil Engineer
Storm Water
Management**



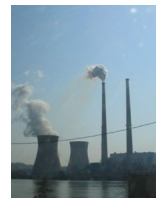
**Urban and
Regional Planner**



Epidemiologist



**Environmental
Engineer**



**Soil
Conservationist**



Forester



**Energy
Consultant**



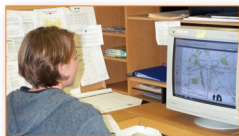
**Chemical
Laboratory
Technician**



**Certified
Operator**



**Transportation
Engineer**



Risk Assessor

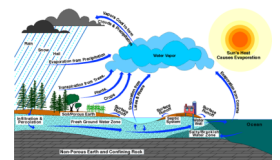


**Free
Space**

**Environmental
Engineer**



Hydrogeologist



**Sustainability
Coordinator**



**Recycling
Facility Manager**



Conservationist



**Wildlife
Biologist**



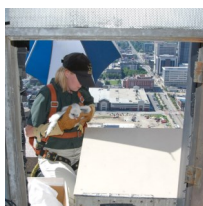
**Emergency
Responder**



Biologist



**Wildlife
Educator**



**Pollution Control
Equipment
Technician**



Chemist



Soil Scientist



B I N G O

Transportation Engineer 	Environmental Scientist: Wetlands 	Sustainability Coordinator 	Environmental Scientist: Air Quality 	Chemical Laboratory Technician 
Pollution Control Equipment Technician 	Biological Laboratory Technician 	Hydrologic Technician 	Environmental Engineer 	Environmental Health and Safety Manager 
Chemist 	Biologist 		Soil Scientist 	Fish and Wildlife Technician 
Environmental Inspector 	Hydrologist 	Hydrogeologist 	Environmental Scientist: Drinking Water 	Arborist, Urban Forester 
Forester 	Recycling Facility Manager 	Naturalist 	Certified Operator 	Geographer 

B I N G O

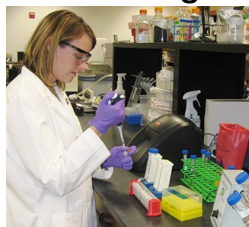
Energy Consultant 	Marine Biologist 	Geoenvironmental Scientist 	Soil Scientist 	Recycling Facility Manager 
Civil Engineer Wastewater Treatment 	Environmental Scientist: Air Quality 	Emergency Responder 	Communications Specialist 	Microbiologist 
Naturalist 	Geographer 		Certified Operator 	Conservationist 
Emergency Responder 	Transportation Engineer 	Ecologist 	Solar Energy Technician 	Biologist 
Environmental Health and Safety Manager 	Fish and Wildlife Technician 	Biological Science Technician 	Civil Engineer Storm Water Management 	Biological Laboratory Technician 

B I N G O

Geographer



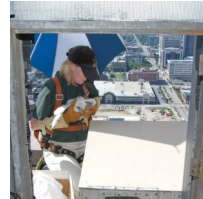
Microbiologist



Atmospheric Scientist



Wildlife Educator



Emergency Responder



Environmental Inspector



Marine Biologist



Fish and Wildlife Technician



Energy Consultant



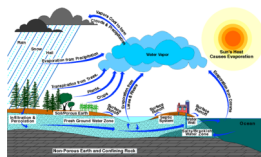
Hazardous Material Removal Worker



**Civil Engineer
Wastewater Treatment**



Hydrogeologist



**Free
Space**

Environmental Health and Safety Manager



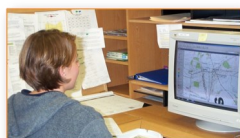
Chemical Laboratory Technician



Hydrologist



Transportation Engineer



Soil Conservationist



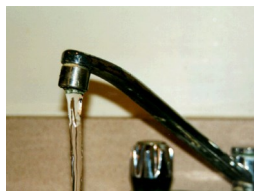
Chemist



**Civil Engineer
Storm Water Management**



Certified Operator



Environmental Engineer



Soil Scientist



**Environmental Scientist:
Wetlands**



Conservationist



B I N G O

Emergency Responder 	Hazardous Material Removal Worker 	Civil Engineer Solid Waste Management 	Forester 	Geologist 
Geographer 	Environmental Engineer 	Recycling Facility Manager 	Ecologist 	Certified Operator 
Soil Conservationist 	Geoenvironmental Scientist 	Free Space	Game Warden, Wildlife Officer 	Geologist 
Environmental Educator 	Environmental Inspector 	Biological Laboratory Technician 	Transportation Engineer 	Fish and Wildlife Technician 
Wildlife Biologist 	Biologist 	Sustainability Coordinator 	Risk Assessor 	Arborist, Urban Forester 

B I N G O

Geoenvironmental Scientist 	Environmental Scientist: Wetlands 	Civil Engineer Wastewater Treatment 	Communications Specialist 	Energy Consultant 
Microbiologist 	Arborist, Urban Forester 	Naturalist 	Epidemiologist 	Environmental Scientist: Air Quality 
Marine Biologist 	Biological Science Technician 	<div>Free Space</div>	Emergency Responder 	Biologist 
Hazardous Material Removal Worker 	Soil Conservationist 	Chemical Laboratory Technician 	Solar Energy Technician 	Hazardous Material Removal Worker 
Civil Engineer Storm Water Management 	Certified Operator 	Hydrologist 	Environmental Scientist: Air Quality 	Urban and Regional Planner 

B I N G O

Civil Engineer Storm Water Management 	Transportation Engineer 	Atmospheric Scientist 	Biologist 	Microbiologist 
Arborist, Urban Forester 	Chemist 	Soil Scientist 	Conservationist 	Energy Consultant 
Recycling Facility Manager 	Biological Science Technician 	Free Space	Communications Specialist 	Chemical Laboratory Technician 
City/County Recycling Coordinator 	Cartographer 	Pollution Control Equipment Technician 	Ecologist 	Environmental Scientist: Air Quality 
Soil Conservationist 	Civil Engineer Wastewater Treatment 	Emergency Responder 	Geoenvironmental Scientist 	Naturalist 

B I N G O

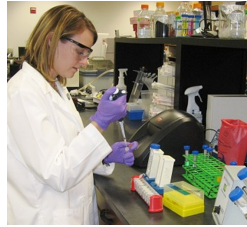
**Fish and
Wildlife
Technician**



**Recycling
Facility Manager**



Microbiologist



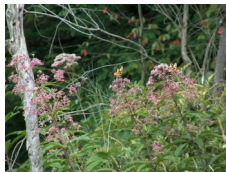
Naturalist



**Atmospheric
Scientist**



Ecologist



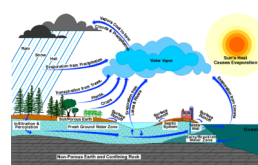
**Civil Engineer
Wastewater
Treatment**



Soil Scientist



Hydrogeologist



Epidemiologist



**Marine
Biologist**



**Game Warden,
Wildlife Officer**

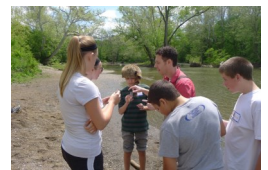


**Free
Space**

**City/County
Recycling
Coordinator**



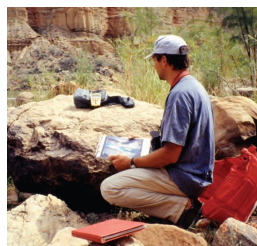
**Environmental
Educator**



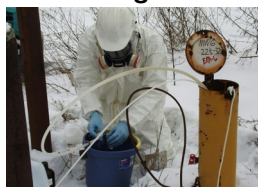
**Urban and
Regional Planner**



Geographer



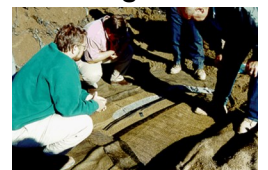
**Environmental
Scientist:
Drinking Water**



**Soil
Conservationist**



**Civil Engineer
Solid Waste
Management**



Cartographer



Chemist



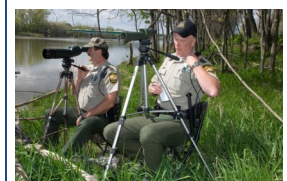
Conservationist



**Arborist,
Urban Forester**



**Fish and
Wildlife
Technician**

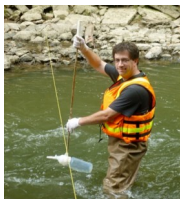


B I N G O

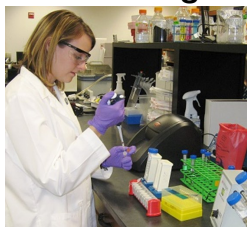
Geographer



**Biological
Science
Technician**



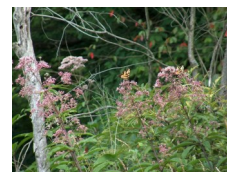
Microbiologist



**Hydrologic
Technician**



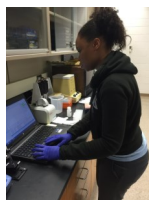
Ecologist



**Environmental
Scientist:
Air Quality**



**Biological
Laboratory
Technician**



**Transportation
Engineer**



**Environmental
Scientist:
Wetlands**



**Recycling
Facility Manager**



Biologist

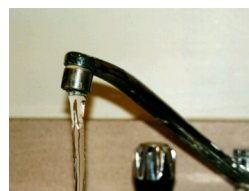


Hydrologist

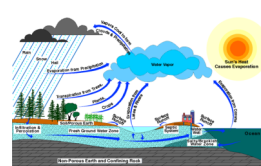


**Free
Space**

**Certified
Operator**



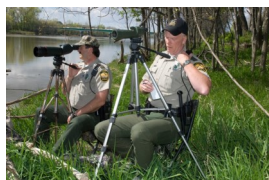
Hydrogeologist



Risk Assessor



**Fish and
Wildlife
Technician**



**Urban and
Regional Planner**



**Environmental
Educator**



**Communications
Specialist**



**Marine
Biologist**



**Energy
Consultant**



Forester



**Geoenvironmental
Scientist**



Soil Scientist



B I N G O

Arborist, Urban Forester 	Marine Biologist 	Geologist 	Chemist 	Environmental Scientist: Air Quality 
Geoenvironmental Scientist 	Environmental Engineer 	Microbiologist 	Game Warden, Wildlife Officer 	Environmental Scientist: Drinking Water 
Atmospheric Scientist 	Forester 	Free Space	Certified Operator 	Environmental Inspector 
Urban and Regional Planner 	Hazardous Material Removal Worker 	Chemical Laboratory Technician 	Hydrologist 	Biological Science Technician 
Communications Specialist 	Ecologist 	Biologist 	Soil Scientist 	Risk Assessor 

B I N G O

Forester 	Geoenvironmental Scientist 	Chemical Laboratory Technician 	Environmental Scientist: Wetlands 	Environmental Health and Safety Manager 
Recycling Facility Manager 	Hydrogeologist 	Pollution Control Equipment Technician 	Soil Conservationist 	Atmospheric Scientist 
Hazardous Material Removal Worker 	Hydrologic Technician 	Free Space	Hydrologist 	Environmental Engineer 
Emergency Responder 	Chemist 	Transportation Engineer 	Geographer 	Certified Operator 
Civil Engineer Solid Waste Management 	Civil Engineer Wastewater Treatment 	Environmental Scientist: Air Quality 	Solar Energy Technician 	Epidemiologist 

B I N G O

Risk Assessor 	Urban and Regional Planner 	Energy Consultant 	Atmospheric Scientist 	Conservationist 
Transportation Engineer 	Certified Operator 	Recycling Facility Manager 	Fish and Wildlife Technician 	Ecologist 
Chemist 	Naturalist 	Free Space	Civil Engineer Storm Water Management 	Arborist, Urban Forester 
Wildlife Biologist 	Geographer 	Environmental Health and Safety Manager 	Ecologist 	Geoenvironmental Scientist 
Cartographer 	Marine Biologist 	Hydrologic Technician 	Solar Energy Technician 	Pollution Control Equipment Technician 

B I N G O

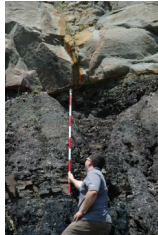
Soil Scientist 	Civil Engineer Wastewater Treatment 	Emergency Responder 	Solar Energy Technician 	Environmental Educator 
Civil Engineer Solid Waste Management 	Forester 	Geologist 	Biological Laboratory Technician 	Geographer 
Wildlife Educator 	Hydrogeologist 	Free Space	Biologist 	Environmental Scientist: Drinking Water 
Hazardous Material Removal Worker 	Biological Science Technician 	Chemical Laboratory Technician 	Environmental Engineer 	Soil Conservationist 
Sustainability Coordinator 	Environmental Scientist: Wetlands 	Environmental Scientist: Air Quality 	Fish and Wildlife Technician 	Microbiologist 

B I N G O

Hydrologist



Geologist



**Civil Engineer
Storm Water
Management**



**Wildlife
Educator**



**Chemical
Laboratory
Technician**



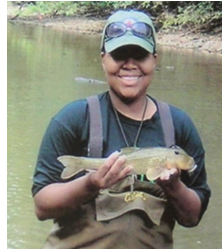
**Soil
Conservationist**



**Geoenvironmental
Scientist**



Biologist



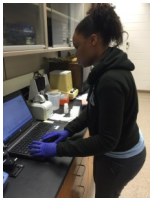
**Environmental
Educator**



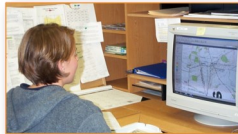
Forester



**Biological
Laboratory
Technician**



**Transportation
Engineer**



**Free
Space**

**Environmental
Scientist:
Wetlands**



**Hazardous
Material
Removal Worker**



**Environmental
Health and
Safety Manager**



**Energy
Consultant**



**Pollution Control
Equipment
Technician**



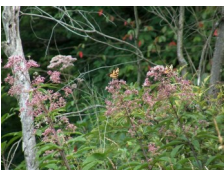
**Game Warden,
Wildlife Officer**



Cartographer



Ecologist



Naturalist



**Recycling
Facility Manager**



**Fish and
Wildlife
Technician**



Epidemiologist



B I N G O

Hydrologist



Soil Scientist



**Civil Engineer
Solid Waste
Management**



Conservationist



**Environmental
Inspector**



**Solar Energy
Technician**



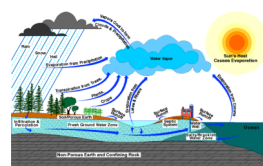
**Game Warden,
Wildlife Officer**



Chemist



Hydrogeologist



**Environmental
Scientist:
Air Quality**



**Civil Engineer
Wastewater
Treatment**



**Emergency
Responder**

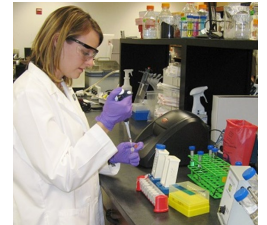


**Free
Space**

**City/County
Recycling
Coordinator**



Microbiologist



**Certified
Operator**



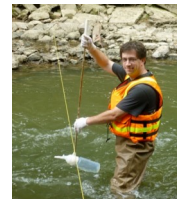
**Atmospheric
Scientist**



**Communications
Specialist**



**Biological
Science
Technician**



Risk Assessor



**Arborist,
Urban Forester**



**Hydrologic
Technician**



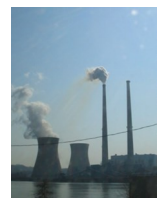
**Urban and
Regional Planner**



Geographer



**Environmental
Engineer**




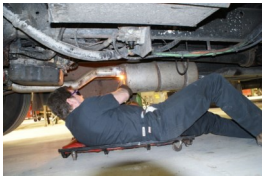


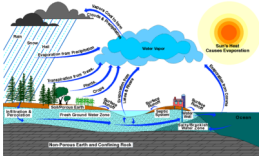



B I N G O

Environmental Scientist: Drinking Water 	Naturalist 	Fish and Wildlife Technician 	Environmental Engineer 	Environmental Health and Safety Manager 
Environmental Educator 	Transportation Engineer 	Biologist 	Hazardous Material Removal Worker 	Civil Engineer Solid Waste Management 
Civil Engineer Wastewater Treatment 	City/County Recycling Coordinator 	Free Space	Ecologist 	Hydrologic Technician 
Epidemiologist 	Geoenvironmental Scientist 	Wildlife Biologist 	Civil Engineer Storm Water Management 	Conservationist 
Arborist, Urban Forester 	Urban and Regional Planner 	Environmental Scientist: Air Quality 	Biological Science Technician 	Biological Laboratory Technician 

B I N G O

Biological Laboratory Technician 	Emergency Responder 	Atmospheric Scientist 	Fish and Wildlife Technician 	Chemical Laboratory Technician 
Geologist 	Hazardous Material Removal Worker 	Environmental Health and Safety Manager 	Hydrologic Technician 	City/County Recycling Coordinator 
Transportation Engineer 	Energy Consultant 	Free Space	Game Warden, Wildlife Officer 	Environmental Inspector 
Soil Scientist 	Naturalist 	Soil Conservationist 	Environmental Educator 	Forester 
Microbiologist 	Epidemiologist 	Wildlife Educator 	Risk Assessor 	Urban and Regional Planner 

B I N G O

Environmental Scientist: Drinking Water 	Pollution Control Equipment Technician 	Geoenvironmental Scientist 	Hydrologist 	Recycling Facility Manager 
Cartographer 	Ecologist 	Environmental Engineer 	Environmental Scientist: Wetlands 	Marine Biologist 
Biological Science Technician 	Hydrogeologist 	Free Space	Sustainability Coordinator 	Environmental Scientist: Air Quality 
Chemist 	Civil Engineer Solid Waste Management 	Communications Specialist 	Arborist, Urban Forester 	Biologist 
Wildlife Biologist 	Civil Engineer Storm Water Management 	Solar Energy Technician 	Conservationist 	Civil Engineer Wastewater Treatment 

B I N G O

Epidemiologist 	Marine Biologist 	Environmental Scientist: Wetlands 	Environmental Inspector 	Civil Engineer Storm Water Management 
Civil Engineer Wastewater Treatment 	Solar Energy Technician 	Recycling Facility Manager 	Microbiologist 	Hydrologist 
Forester 	Urban and Regional Planner 		Geographer 	Cartographer 
Environmental Scientist: Air Quality 	Soil Scientist 	Microbiologist 	Geologist 	Risk Assessor 
Environmental Engineer 	Environmental Educator 	Geoenvironmental Scientist 	Civil Engineer Wastewater Treatment 	Atmospheric Scientist 


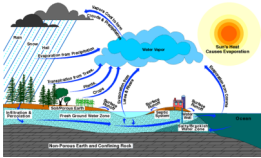























B I N G O

Chemical Laboratory Technician 	Biologist 	Emergency Responder 	Environmental Scientist: Drinking Water 	Hydrologic Technician 
Game Warden, Wildlife Officer 	Environmental Health and Safety Manager 	Civil Engineer Solid Waste Management 	Hydrogeologist 	Communications Specialist 
Environmental Inspector 	Hazardous Material Removal Worker 	Free Space	City/County Recycling Coordinator 	Ecologist 
Certified Operator 	Naturalist 	Pollution Control Equipment Technician 	Biological Laboratory Technician 	Risk Assessor 
Environmental Engineer 	Environmental Educator 	Geoenvironmental Scientist 	Chemical Laboratory Technician 	Atmospheric Scientist 

B I N G O

Cartographer 	Recycling Facility Manager 	Chemist 	Epidemiologist 	City/County Recycling Coordinator 
Naturalist 	Biologist 	Environmental Scientist: Wetlands 	Transportation Engineer 	Forester 
Soil Conservationist 	Biological Science Technician 	<div style="background-color: black; color: white; border-radius: 50%; width: 150px; height: 150px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;"> <p>Free</p> <p>Space</p> </div> </div>	Biological Laboratory Technician 	Environmental Scientist: Air Quality 
Ecologist 	Solar Energy Technician 	Civil Engineer Wastewater Treatment 	Game Warden, Wildlife Officer 	Environmental Engineer 
Wildlife Educator 	Urban and Regional Planner 	Geographer 	Civil Engineer Wastewater Treatment 	Marine Biologist 

B I N G O

Environmental Health and Safety Manager 	Hydrogeologist 	Conservationist 	Pollution Control Equipment Technician 	Hydrologic Technician 
Geologist 	Hydrologist 	Geoenvironmental Scientist 	Fish and Wildlife Technician 	Wildlife Biologist 
Certified Operator 	Communications Specialist 		Recycling Facility Manager 	Civil Engineer Storm Water Management 
Chemist 	Arborist, Urban Forester 	Soil Conservationist 	Risk Assessor 	Emergency Responder 
Atmospheric Scientist 	Chemical Laboratory Technician 	Environmental Scientist: Drinking Water 	Hazardous Material Removal Worker 	Civil Engineer Storm Water Management 

B I N G O

Biologist 	Sustainability Coordinator 	Certified Operator 	Chemist 	Wildlife Biologist 
Hydrologist 	Energy Consultant 	Civil Engineer Solid Waste Management 	Urban and Regional Planner 	Pollution Control Equipment Technician 
Hazardous Material Removal Worker 	Cartographer 		Geoenvironmental Scientist 	Chemical Laboratory Technician 
Marine Biologist 	Environmental Educator 	Ecologist 	Epidemiologist 	Atmospheric Scientist 
Emergency Responder 	Geographer 	Geologist 	Environmental Scientist: Drinking Water 	Environmental Scientist: Air Quality 











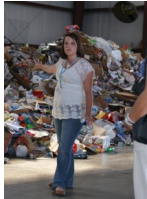
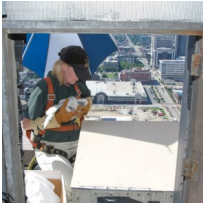





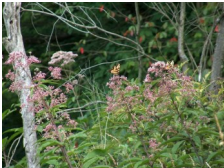
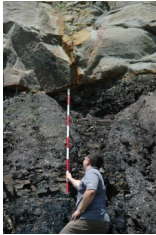





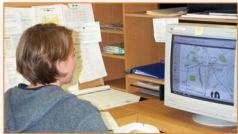
B I N G O

Soil Conservationist 	Risk Assessor 	Wildlife Educator 	Game Warden, Wildlife Officer 	Environmental Engineer 
Recycling Facility Manager 	Environmental Scientist: Wetlands 	Communications Specialist 	Forester 	Solar Energy Technician 
Hydrologic Technician 	Biological Science Technician 	<div style="background-color: black; color: white; border-radius: 50%; width: 150px; height: 150px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;"> <p>Free Space</p> </div> </div>	Environmental Inspector 	Civil Engineer Storm Water Management 
Arborist, Urban Forester 	Conservationist 	Fish and Wildlife Technician 	Biological Laboratory Technician 	Microbiologist 
Biological Science Technician 	Ecologist 	Chemical Laboratory Technician 	Transportation Engineer 	City/County Recycling Coordinator 

B I N G O

Wildlife Biologist 	Hazardous Material Removal Worker 	Civil Engineer Wastewater Treatment 	Recycling Facility Manager 	Environmental Scientist: Air Quality 
Biological Science Technician 	Biological Laboratory Technician 	Atmospheric Scientist 	Solar Energy Technician 	Soil Conservationist 
Hydrogeologist 	Soil Scientist 	Free Space	Microbiologist 	Environmental Inspector 
Chemical Laboratory Technician 	Hydrologic Technician 	Civil Engineer Solid Waste Management 	Arborist, Urban Forester 	Geographer 
Communications Specialist 	Marine Biologist 	Chemist 	Cartographer 	Emergency Responder 

B I N G O

Geoenvironmental Scientist 	Game Warden, Wildlife Officer 	Soil Scientist 	Civil Engineer Wastewater Treatment 	Hydrologist 
Forester 	Environmental Scientist: Wetlands 	Epidemiologist 	Conservationist 	Environmental Engineer 
City/County Recycling Coordinator 	Wildlife Educator 		Certified Operator 	Marine Biologist 
Pollution Control Equipment Technician 	Biologist 	Ecologist 	Geologist 	Sustainability Coordinator 
Environmental Educator 	Civil Engineer Storm Water Management 	Environmental Scientist: Drinking Water 	Fish and Wildlife Technician 	Transportation Engineer 

B I N G O





Geologist 	Wildlife Educator 	Biological Laboratory Technician 	Hazardous Material Removal Worker 	Game Warden, Wildlife Officer 
Environmental Scientist: Wetlands 	Transportation Engineer 	Sustainability Coordinator 	Civil Engineer Storm Water Management 	Geoenvironmental Scientist 
Ecologist 	Arborist, Urban Forester 		Energy Consultant 	Forester 
Hydrologic Technician 	Microbiologist 	Biologist 	Naturalist 	Solar Energy Technician 
Epidemiologist 	Environmental Educator 	Civil Engineer Solid Waste Management 	Environmental Health and Safety Manager 	Chemist 

B I N G O

Soil Conservationist 	Atmospheric Scientist 	Communications Specialist 	Fish and Wildlife Technician 	Soil Scientist 
Conservationist 	Environmental Inspector 	Emergency Responder 	Marine Biologist 	Pollution Control Equipment Technician 
Hydrogeologist 	Biological Science Technician 	Free Space	Certified Operator 	Urban and Regional Planner 
Chemical Laboratory Technician 	Environmental Scientist: Air Quality 	Hydrologist 	Wildlife Biologist 	Environmental Scientist: Drinking Water 
Civil Engineer Wastewater Treatment 	Environmental Engineer 	Risk Assessor 	Geographer 	Cartographer 

Environmental Careers Classroom Activity

- This activity can be done as a bingo game or interactive “What’s My Career?” mixer.
- Download slides, cards and instructions at <http://epa.ohio.gov/oe> under the environmental education tab, “environmental education resources” link

B	I	N	G	O
Arborist, Urban Forester 	Atmospheric Scientist 	Biological Laboratory Technician 	Biologist 	Certified Operator 
Chemical Laboratory Technician 	City/County Recycling Coordinator 	Marine Biologist 	Communications Specialist 	Conservationist 
Civil Engineer 	Corporate Sustainability Coordinator 	FREE SPACE	Emergency Responder 	Energy Consultant 
Environmental Engineer 	Environmental Health and Safety Manager 	Environmental Inspector 	Environmental Scientist 	Epidemiologist 
Fish and Wildlife Technician 	Forester 	Game Warden, Wildlife Officer 	Geologist 	Hazardous Material Removal Worker 



125 Hopping Brook Road
Holliston, MA 01746-1471

T: 508-893-7979
F: 508-893-9898
www.newwa.org

New England Water Works Association Youth Education Committee Classroom Module

Career Education

Environmental Career Resources

Animal Care and Science videos from Kids.gov, including animal keeper, marine biologist, veterinarian, wildlife biologist, and zoo keeper <https://www.usa.gov/animal-science-careers>

Arboriculture Career Paths from the International Society of Arboriculture <http://www.isa-arbor.com/students/careersInArboriculture/commonCareerPaths.aspx>, with job descriptions for [Municipal Arborist/Forester](#), [Utility Arborist/Forester](#), and [Urban Forester/Government](#) and a Careers in Arboriculture video <https://youtu.be/u8Qn1iAMISl>

Conservation Connect outdoor career videos from US Fish and Wildlife Service <http://nctc.fws.gov/conservationconnect/>

Farming, Fishing and Forestry videos from Kids.gov, including federal wildlife officer and wildlife biologist <https://www.usa.gov/farming-fishing-forestry-careers>

River Careers profiles from RiverWorks Discovery <http://www.riverworksdiscovery.org/river-careers/>

Scientists at the Smithsonian, includes Amphibian Ace, Bat Listener, Bee Tracker, Bird Strike Sleuth, Dinosaur Hunter, Frog Follower, Reef Whisperer, Seed Reader and many more <http://www.smithsonianeducation.org/scientist/index.html>

Scientists Card series from Natural Inquirer middle school science education <http://www.naturalinquirer.org/scientists-v-92.html>

US Environmental Protection Agency "Faces of the EPA" video interviews <https://www.youtube.com/playlist?list=PLBhfkkujnoRD-7H1lYa5FQ10AFgsjbnlh>

US Geological Survey Career Cards for ten different science careers including biological science technician, biologist, cartographer, chemist, ecologist, geologist, geographer, hydrologic technician, hydrologist, physical scientist, <http://education.usgs.gov/careercards.html>

Wildlife Biologist Career Spotlight video from US Fish and Wildlife Service & Kids.gov <http://kids.usa.gov/watch-videos/jobs/wildlife-biologist/index.shtml>

Wildlife Officer Career Spotlight video from US Fish and Wildlife Service & Kids.gov <http://kids.usa.gov/watch-videos/jobs/federal-wildlife-officer/index.shtml>

Zoo Keepers from the National Zoo and Kids.gov <http://kids.usa.gov/watch-videos/jobs/zoo-keepers/index.shtml>

"My Future Life" videos, <http://www.youtube.com/user/SEOCEMS> with career interviews such as Aquatic Biologist, Hydrogeologist, Environmental Projects Manager, Plant Pathologist, Wind Energy Assessment, and Waste Management

Classroom Activities on Environmental Careers

Environmental Careers Icebreaker Classroom Activity created by Ohio EPA Office of Environmental Education to showcase 52 different public sector and private sector careers
<http://epa.ohio.gov/oeo/EnvironmentalEducation.aspx#135377996-environmental-education-resources>

"Urban Waters" activity in the *Project WET Curriculum and Activity Guide 2.0* includes water career cards for 19 careers related to providing and treating drinking water, and treating waste water.

"Who Works in This Forest?" activity in *Project Learning Tree Pre K-8 Environmental Education Activity Guide*

"Working for Wildlife" activity in newest *Project Wild Aquatic Guide*, and accompanying online Project WILD: Wild Work Resources, <http://www.projectwild.org/projectwildwebsite/resources/occupations.htm>

Environmental Career Resources Available for Purchase

Environmental Related Occupations two- volume Career Pathway DVD available from www.careerpathwayonline.com includes video interviews of Ohio and West Virginia environmental professionals about their careers, education and salary in the following fields:

- Air Quality Manager Solid Waste Manager
- Hazardous Waste Manager Urban and Regional Planner Forest and Conservation Scientist
- Water and Wastewater Treatment Plant Operator Geologist
- Meteorologist Park Ranger
- Biological Scientist Environmental Inspector Recycling Plant Manager

Scientists in the Field* series of books from Houghton Mifflin Harcourt: *The Bat Scientists by Mary Cay Carson, c. 2010

Emi and the Rhino Scientist by Mary Kay Carson, c. 2010

Extreme Scientists: Exploring Nature's Mysteries from Perilous Places by Donna M. Jackson, c. 2009

The Frog Scientist by Pamela S. Turner, c. 2009

Gorilla Doctors: Saving Endangered Great Apes by Pamela S. Turner, c. 2005 *Hidden Worlds: Looking Through a Scientist's Microscope* by Stephen Kramer, c. 2001

The Hive Detectives: Chronicle of a Honey Bee Catastrophe by Loree Griffin Burns, c. 2010

The Manatee Scientists: Saving Vulnerable Species by Peter Lourie, c. 2011

Once a Wolf: How Wildlife Biologists Fought to Bring Back the Gray Wolf by Stephen R. Swinburne, c. 1999

Park Scientists: Gila Monsters, Geysers and Grizzly Bears in America's Own Backyard by Tom Uhlman and Mary Kay Carson, c. 2014

The Polar Bear Scientists by Peter Lourie, c. 2012

The Prairie Builders: Reconstructing America's Lost Grasslands by Sneed Collard III, c. 2008

Project UltraSwan by Elinor Osborn, c. 2002

Quest for the Tree Kangaroo: An Expedition to the Cloud Forest of New Guinea, by Sy Montgomery, c. 2006

Saving the Ghost of the Mountain: An Expedition Among Snow Leopards in Mongolia by Sy Montgomery, c. 2009

Science Warriors: The Battle Against Invasive Species by Sneed B. Collard III, c. 2008

Secrets of Sound: Studying the Calls and Songs of Whales, Elephants and Birds by April Pulley Sayre, c. 2002

The Snake Scientist by Sy Montgomery, C. 1999

Stronger than Steel: Spider Silk DNA and the Quest for Better Bulletproof Vests, Sutures, and

Parachute Rope by Bridget Heos, c. 2013

The Tarantula Scientist by Sy Montgomery, c. 2007

Tracking Trash: Flotsam, Jetsam and the Science of Ocean Motion by Loree Griffin Burns, c. 2007

The Whale Scientists: Solving the Mystery of Whale Strandings, by Fran Hodgkins, c. 2007

The Wildlife Detectives: How Forensic Scientists Fight Crimes Against Nature, by Donna M. Jackson, c. 2000

The Woods Scientist by Stephen R. Swinburne, c. 2002

General Career Resources

Occupational Outlook Handbook from the US Bureau of Labor Statistics

<http://www.bls.gov/ooh/home.htm> includes in-depth job descriptions, degree requirements, pay and job outlook for a number of environmental careers, including:

Atmospheric Scientists	Epidemiologists
Biological Technicians	Geoscientists
Civil Engineers	Hazmat Removal Workers
Conservation Scientists and Foresters	Hydrologists
Environmental Engineering Technicians	Microbiologists
Environmental Engineers	Occupational Health & Safety Specialists
Environmental Science Technicians	Wildlife Biologists
Environmental Scientists and Specialists	Zoologists

See also the Bureau of Labor Statistics K-12 website, <http://www.bls.gov/k12/>