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](https://www.usa.gov/animal-science-careers)


**Conservation Connect** outdoor career videos from US Fish and Wildlife Service [http://nclc.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](https://www.usa.gov/farming-fishing-forestry-careers)

**Oil and Gas “Careers in Ohio”** from Ohio Oil and Gas Energy Education Project [http://oogeep.org/industry-workforce/careers/](http://oogeep.org/industry-workforce/careers/) or email acroce@oogeep.org to order free copies


**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](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](http://www.naturalinquirer.org/scientists-v-92.html)

**US Environmental Protection Agency “Faces of the EPA” video interviews** [https://www.youtube.com/playlist?list=PLBhlkkuinoRD-7H1IYa5FQ10AFgsjbnlh](https://www.youtube.com/playlist?list=PLBhlkkuinoRD-7H1IYa5FQ10AFgsjbnlh)

**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](http://education.usgs.gov/careercards.html)


"My Future Life" videos, [http://www.youtube.com/user/SEOCEMS](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

**Career Pathways** from the Ohio Department of Education, showing middle, high school and college course options for various career clusters [https://education.ohio.gov/Topics/Career-Tech/Career-Connections/Career-Pathways](https://education.ohio.gov/Topics/Career-Tech/Career-Connections/Career-Pathways)

Four of these environmental career pathways have been posted as an “Ohio In-Demand Job” on the [Ohio Means Jobs](http://jfs.ohio.gov/owd/CareerPathways/AgSystemsWaterSystems.stm) website:

- Water plant operator/utilities director
- Environmental Technician/Environmental Specialist/Natural Sciences Manager
- Arborist/Forestry Specialist/Forestry Manager
- Pipeline Technician/Petroleum Technician/Petroleum Engineer

[Ohio Means Jobs K-12 Occupation Search](https://jobseeker.k-12.ohiomeansjobs.monster.com/ExploreIt/OccupationSearch.aspx) page for beginning to research different career fields:

Open Education Database [http://oedb.org/](http://oedb.org/), select a degree then “science and engineering” category to
reveal subjects like environmental policy and environmental science.

Posters showcasing careers and strong employment outlooks for environmental professionals, from the National Environmental Education Foundation:
“STEM and Our Planet” www.neefusa.org/resource/stem-our-planet-infographic
“Engineering and Our Planet” www.neefusa.org/resource/engineering-our-planet-infographic

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/oee/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


Environmental Career Resources Available for Purchase

Environmental Related Occupations two-volume Career Pathway DVD available from www.careerpathwaysonline.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
The Frog Scientist by Pamela S. Turner, c. 2009
Gorilla Doctors: Saving Endangered Great Apes by Pamela S. Turner, c. 2005
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 Woods Scientist by Stephen R. Swinburne, c. 2002

General Career Resources

Ohio Career Exploration Internship Program at the Ohio Development Services Agency places high school students in businesses for 20-week paid internships. Online application at http://development.ohio.gov/bs/bs_oceip.htm

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

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

Please send updates and corrections to:
Ohio EPA, Office of Environmental Education
oeef@epa.ohio.gov