

## Environmental Career Resources

**Aquarium Curator and Herpetologist** video from National Aquarium and Kids.gov

<http://kids.usa.gov/watch-videos/jobs/aquarium/index.shtml>

**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 video <https://youtu.be/u8Qn1iAMISl>

**Conservation Connect** outdoor career videos from US Fish and Wildlife Service

<http://nctc.fws.gov/conservationconnect/>

**Geoscience Career Videos** from National Ground Water Association:

“Groundwater Careers” <https://www.youtube.com/watch?v=yUgl1QjuPHs> and

“Groundwater is Cool” <https://www.youtube.com/watch?v=ZZ7K50O6z5g>

**Marine Biologist Career Spotlight** video from Smithsonian and Kids.gov

<http://kids.usa.gov/watch-videos/jobs/marine-biologist/index.shtml>

**Oil and Gas “Careers in Ohio”** from Ohio Oil and Gas Energy Education Project

<http://oogeep.org/industry-workforce/careers/> or email [acroce@oogeep.org](mailto:acroce@oogeep.org) to order free copies

**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, Germinator, Reef Doctor, 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=PLBhfkujnoRD-7H1Y5a5FQ10AFgsjbnlh>

**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

**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>

Four of these environmental career pathways have been posted as an “Ohio In-Demand Job” on the

**Ohio Means Jobs** website:

Water plant operator/utilities director

<http://jfs.ohio.gov/owd/CareerPathways/AgSystemsWaterSystems.stm>

Environmental Technician/Environmental Specialist/Natural Sciences Manager

<http://jfs.ohio.gov/owd/CareerPathways/AgSystemsEnvironmental.stm>

Arborist/Forestry Specialist/Forestry Manager

<http://omj.ohio.gov/WorkArea/DownloadAsset.aspx?id=2147644425>

Pipeline Technician/Petroleum Technician/Petroleum Engineer

<http://jfs.ohio.gov/owd/careerpathways/agssystemsnaturalresources.stm>

**Ohio Means Jobs K-12 Occupation Search** page for beginning to research different career fields:

<https://jobseeker.k-12.ohiomeansjobs.monster.com/ExploreIt/OccupationSearch.aspx>

Open Education Database <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](http://www.neefusa.org/resource/stem-our-planet-infographic)

“Engineering and Our Planet” [www.neefusa.org/resource/engineering-our-planet-infographic](http://www.neefusa.org/resource/engineering-our-planet-infographic)

“Rooted in Math” [www.neefusa.org/resource/rooted-math](http://www.neefusa.org/resource/rooted-math) poster, and

<https://www.neefusa.org/resource/rooted-math-educator-toolkit>

### 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/oe/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.careerpathwaysonline.com](http://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 Kay 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

**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](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	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/>

Please send updates and corrections to:  
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