

## Environmental Career Resources

*Last update 9/9/15*

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

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

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

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

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

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

**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=PLBhfkkujnoRD-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>

**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** developed by 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>

Three 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>

Pipeline Technician/Petroleum Technician/Petroleum Engineer

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

## Sustainability Career Resources

<https://docs.google.com/spreadsheet/ccc?key=0AuwBTPUVhNwgdHJRWnRGNTRBeWRtcmhtSIoxcTNoY0E&usp=sharing#gid=0>

**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/>

**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>

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

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

## 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.careerpathwayonline.com](http://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

**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)