

HALF OF THE WORLD'S WILDLIFE HAVE VANISHED SINCE 1970.

THAT NUMBER COULD INCREASE TO TWO-THIRDS BY 2021.



LAND USE CHANGES 200,000,000+

Hundreds of millions of acres of INDUSTRIAL FARMS have replaced small, family farms.



Nearly 4 MILLION miles of HIGHWAYS

ALTERATION OF RIVERS AND WATERWAYS



ONE-THIRD of the nation's rivers and streams do not meet basic water quality standards



WHY WILDLIFE **ARE DECLINING:**

LARGE-SCALE AND RAPID CHANGE



POPULATION **GROWTH**

8 150 1936 128 MILLION

322 MILLION



CLIMATE CHANGE

POSES DIRECT THREATS, amplifies and accelerates other factors



1.5ft. SEA LEVEL RISE BY 2050

SEA LEVEL

Storm intensity increase, drought, and seawater acidifying



HARMFUL INVADERS are degrading natural habitats across the country.



WILDLIFE DISEASES

NEW AND EMERGING DISEASES are an increasing problem for many species.

STATES

CHRONIC WASTING DISEASE ravaging deer/cervids brains.

Chytrid Fungus (Bd) decimating amphibian populations worldwide.





WHY PROTECT WILDLIFE?

Wildlife = Biodiversity

Biodiversity = Ecosystem Services

= Living Earth

(.... air, food, fiber, water, shelter for all life....)

Suggested Reading:

Biodiversity: Connecting with the Tapestry of Life:
Smithsonian Institution Monitoring & Assessment of Biodiversity Program



Common Agenda for Wildlife

PROTECT, RESTORE, CONNECT WILDLIFE HABITAT

- Protected Habitat
- Working Lands
- Waters
- Coasts
- Communities





TRANSFORM WILDLIFE CONSERVATION

- 21st Century Wildlife Management
- Climate Change
- · Public Interests in Public Resources
- Systemic Threats to Wildlife



CONNECT AMERICANS WITH WILDLIFE

- · Conservation Stewardship Ethic
- · Next Generation of Conservationists
- Broaden the Wildlife Constituency
- Build Power for Wildlife



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From NWF's Campus Career Center*

Water resource related jobs exist in every U.S. sector, including agriculture (which uses 70% of the nation's water), industry and the residential sector.⁴

Recent listings (as of August 2017) showed Jobs had 107,000+ openings in water sectors, Monster Jobs listed 1000+, and LinkedIn Jobs had over 114,000+ in the US alone!⁶

*For registered NWF EcoLeader and campus partners



- •Director of Sustainable Water Projects
- Hydrologists
- •Water Purification and Overall Construction
- Business Analysts
- Appliance Technicians and Installers
- •Plumbers, Pipefitters, and Steamfitters

- Conservation Scientist
- Chemists
- •Water/waste Water Project Manager
- Surface Water Quality Scientists/Engineers
- Wastewater Certified Principals
- Water Damage Specialists

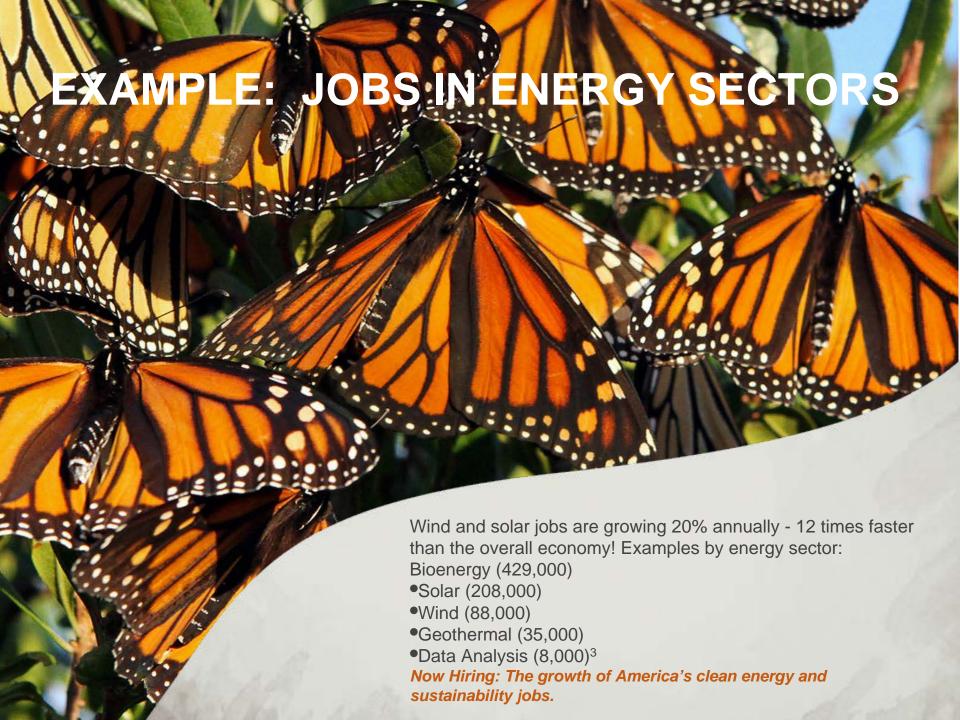


Campus Projects = New Jobs and Businesses Example: Campus Water Projects

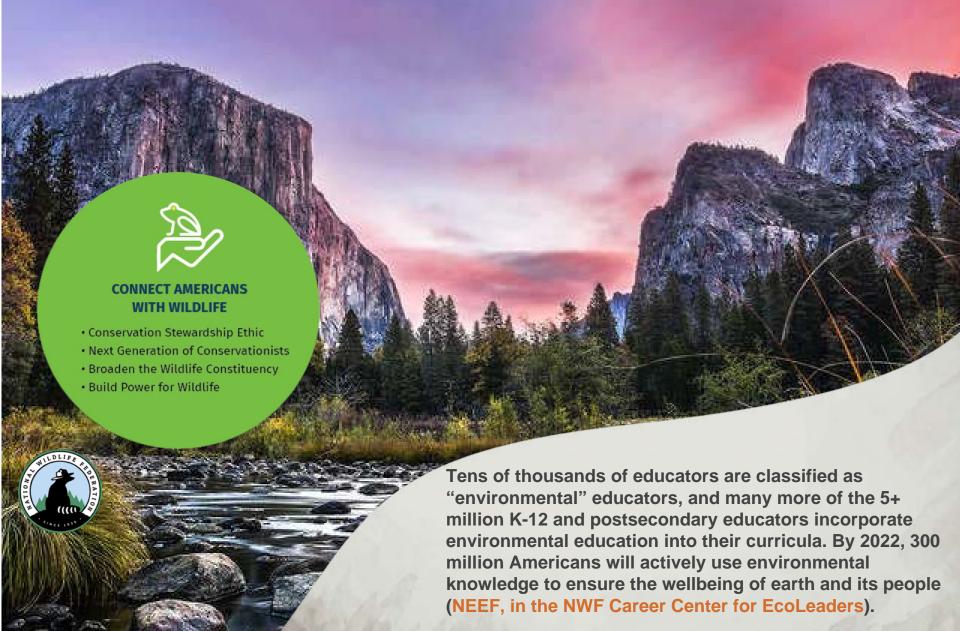
- Penn State University –
 Pennsylvania team of students developed demonstration "living machines" that use plants and natural organisms to naturally treat water (at the building, campus or community scale)
- Northhampton Community
 College Pennsylvania uses
 biofiltration to clean the runoff from
 parking lots, resulting in a potable
 filtrate that can be used to water the
 on-campus community garden.
- Point Loma Nazarene University California installs 42 waterless urinals from Falcon Waterfree Technologies, through a program run by the San Diego Water Authority.
- University of California San
 Diego AQUAholics Anonymous is a
 coalition between students, staff and
 faculty designed to combat UC San
 Diego's water use addiction.







EXAMPLE: EDUCATION AND AWARENESS JOBS



ECOLEADERS: TAKING KEY STEPS FOR WILDLIFE

- 1. Declare and share a personal mission for ecological justice
- 2. Advance a wildlife or sustainability team project
- 3. Support others
- 4. Earn certification (for project-based leadership)
- 5. Create a career plan



Britt Bollenbach, One of the first of NWF's certified EcoLeaders

NWF Career Resources: for NWF Campus Partners and Registered EcoLeaders

Offerings

- 1. Updated Job Links
- 2. Career Planning Tool
- 3. Interviews with EcoProfessionals
- 4. Career Outlooks:
 - a) Salaries
 - b) Required Education and Certifications
 - c) Job Demand
 - d) Project Examples
 - e) Resources

Job Categories

- √ Buildings
- ✓ Climate Adaptation and Mitigation
- √Energy
- ✓ Environmental and Community Justice
- √Business and purchasing
- √Consumption and waste
- √ Education and Awareness
- √ Food and Agriculture
- √ Habitat and Wildlife
- √ Governance and Policy
- √ Outdoor Recreation
- √ Transportation
- √ Water

EcoProfessionals Featured in NWF's Career Center

for Campus Partners and Registered EcoLeaders

A Professional's Perspective



Matt Voorhees
Niagara Conservation

"We helped one client recently curb water use by 40 billion gallons over 6 months. That's the kind of difference graduates can make in water conservation and related fields. You feel good at the end of the day, you've helped your customers save money, and you've helped the environment.

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JOIN NWF AND PARTNERS (AASHE, SECOND NATURE, USGBC)

20 Million Global Sustainability Citizens by 2025, engaged as EcoLeaders and Tracking courses using the STARS Rating system.

