HUMBOLDT STATE UNIVERSITY



Career Guide: Ecological Restoration

Ecological Restoration helps foster an understanding of environmental problems and applying practical solutions in a multi-disciplinary approach to understanding the interactions between the biological and physical world, human institutions and human behavior. This emphasis will train students in the principles and practices of ecological restoration and help students develop skills in communication, critical thinking and environmental decision-making.

The practice of ecological restoration includes a wide scope of projects including, but not limited to: erosion control, reforestation, removal of non-native species and weeds, revegetation of disturbed areas, daylighting streams, reintroduction of native species, and habitat and range improvement for targeted species.

Related Job Titles

The following list is not meant to be all inclusive; many other job alternatives and titles may exist. Some require further education. As an ESM major, careers could reach across other concentration areas; refer to those career guides.

- Biological Science Technician
- Coastal Restoration Assistant
- Coastal Program Analyst
- Conservation Corps Director
- Ecologist
- Environmental Analyst
- Environmental Mgmt. Consultant
- Environmental Health Sanitarian
- Environmental Lawyer

- Environmental Scientist
- Environmental Services Advisor
- Field Director
- Habitat Restoration Specialist
- Hazardous Materials Specialist
- Natural Resource Specialist
- Nature Writer
- Park Technician/Aid
- Park Naturalist

- Park Ranger
- Resource Management Spec.
- Rangeland Mgmt Specialist
- Soil Conservationist
- Soil Scientist
- Technical Writer
- Water Resource Analyst
- Watershed Technician

Possible Employers

Private:

Environmental Consulting Firms
Chemical Companies
Land Developers & Surveyors
Planning Consultants
Nature Centers
Consulting Engineers
Zoological Gardens

Energy Firms
Nature Centers
Outdoor Recreation & Ecopreneurs
Consulting Engineers
Resorts
EcoTourism
Planning Firms

Timber Industry
Public Utilities
Construction Firms
Sportsman's Clubs & Organizations
Conservation Organizations
Ecological Organizations
Real Estate Developers

Federal Agencies:

Army Corps of Engineers Bureau of Indian Affairs Bureau of Land Management Bureau of Reclamation NASA Consumer Protection Agency Environmental Protection Agency National Park Service Agricultural Research Service Smithsonian Institution Natural Resource Cons. Service U.S. Fish & Wildlife U.S. Forest Service U.S. Geological Survey

State, County & Local Agencies

Air Resources Board
Coastal Commission
Conservation Corps
Dept. of Conservation
Dept. of Energy
Public Works
Public Health & Sanitation
Land Use & Planning
Food & Agriculture
Water Districts
Health Services Department

Dept. of Environmental Quality
Dept. Parks & Recreation
Dept. of Toxic Substances Control
Dept. of Transportation
Environmental Health
Environmental Services
Parks & Open Spaces
Agricultural Extension Service
Solid Waste Management
Parks & Recreation Department

Dept. of Water Resources
Health Dept.
Integrated Waste Management
Office of Emergency Services
Recycling
Resource Management
Planning Departments
Fish & Wildlife
Conservation
City, County and State websites

A 4-year College Degree is designed to give you the **Top Skills** employers are looking for, According to the **National** Association of Colleges and Employers, those skills and abilities are:

- Effective communication
- Working in a team structure
- Making decisions/solving problems
- Planning/organizing and prioritizing work
- Obtaining and processing information

- Analyzing quantitative data
- Proficiency with computers and software
- Creating and editing written reports
- Selling and influencing others

Marketable Skills In Your Major

Communication

- Written and oral presentation skills
- Conflict resolution
- Program management and implementation
- Communicating Scientific Concepts and concerns to diverse audiences

Lab Based Skills

- General laboratory skills
- Field based research and testing

Sustainability

- Understanding of sustainability practices
- Implementation of sustainable policies/methods
- Management of natural resources and ecosystems

Extensive Analytical and Investigative Skills

- Analyze human interactions and natural environment
- Conducting field studies
- Sampling and surveying
- Policy analysis

Planning/GIS/Remote Sensing

- Resource management
- Principles of urban and regional planning
- Mapping and GIS skills
- Geospatial analysis and environmental impact assessment

Academic and Career Advising Center Services

Drop-In hours: Monday - Friday, 10 am - 1 pm: Quick academic and career advice and drop-in resume/cover letter review. Drop-ins are handy for the following types of services:

- Job Search Basics Basic DARS Review Quick Resume Review Declaring a Major/Major Change
- Adding a Minor Navigating HSU Handshake How to Use DARS Degree Planner Cover Letter Review

Academic and Career Advisors (Please call 707-826-3341 or visit Gist Hall 114 to make an appointment) Our helpful team of academic and career advisors can help you get the most out of your college experience with the following and much more during an individual appointment:

- Academic Planning
 Full-time Job Search
 DARS Questions
 - 4- Year Plans Major Change Advising GE Information
 - Internship Search
 Federal Work Study
 Mock Interview
- Volunteer Opportunities Career Assessment Adding a Second Major
- Graduate School Application How to use DARS Degree Planner Withdrawal or Transfer Advice Personal Statement

HSU Handshake (online job database and more!): Search for campus jobs, internships, summer jobs, community service, work-study, etc. Register for workshops and special events. Go to www.humboldt.edu/acac to register on HSU Handshake or call 707-826-3341 for assistance.

Events and Workshops (Contact us for more information!)

- Part-time Job Fair August
- Graduate and Professional School Fair September
- Internship Week February
- Career & Volunteer Expo February
- Ready, Set, Register! Semester Bulletin Fall/ Spring
- Educator Fair March

- How to Find Part-Time Jobs Workshop March
- How to Find an Internship Workshop On-Going
- Getting the Most out of Career Expo Workshop On-going
- Research Graduate Schools Workshop February
- Federal Resume & Application Open Labs Fall
- How to Find Internships in Your Home Town Workshop Spring

Looking for professional development opportunities for your on-campus club or organization?

• Request a Career Advisor to give a group presentation on subjects like resume development or job search.