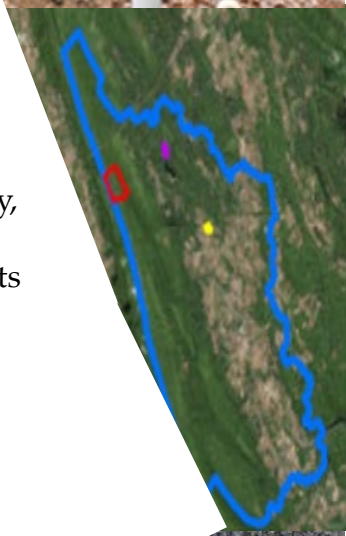
Call for Applications

Critical Zone Management

United States Department of Agriculture
National Institute of Food and Agriculture

USDA Research Traineeships in Forestry, Soil Science, or Ecology

We are launching an interdisciplinary training program that teaches PhD students to analyze forest resources from a Critical Zone perspective. Earth's Critical Zone is the thin near-surface zone spanning from bedrock to the atmospheric boundary layer.



Our Program:

- The goals of our program are to train three PhD graduates that are leaders in Critical Zone (CZ) management and diversify the workforce.
- Open to Ph.D. applicants to one of our participating degree programs:
- Ecology, Forest Resources, or Soil Science
- Trainees will gain competencies in leadership, systems thinking, forestry, soil science, hydrology, and geosciences.
- Students will interact with a large team of faculty, postdocs and students at the Susquehanna Shale Hills Critical Zone Observatory
- Fully funded stipend, tuition, and fees

Participating Faculty:

Contact any of us with questions

Jason Kaye, jpk12@psu.edu
Soil Science and Ecosystem Ecology

Margot Kaye, mwk12@psu.edu
Forest Ecology

Jon Duncan, jmduncan@psu.edu
Hydrology

PennState

Call for Applications

LANDSCAPE-U

An NSF Research Traineeship in Landscape Science at Penn State

Landscape-U is a National Science Foundation Research Traineeship (NRT) to train next generation scholar-practitioners. Trainees will work on problems related to the **food-energy-water nexus** in the Chesapeake Bay and globally, exploring intersections of how these systems are intertwined over space and time.

OUR PROGRAM: HTTPS://SITES.PSU.EDU/LANDSCAPEU/

- Our goal is to train students for diverse career pathways in **landscape science**, ready to apply their science to solutions
- Open to Ph.D. applicants from the Ecology Graduate Program or Dual-title degree programs in Human Dimensions of Natural Resources or International Agriculture and Development
- Trainees will gain competencies in transdisciplinary science, science communication, ethics, design & systems thinking, team facilitation, innovation, and interdisciplinary proficiency
- Fellowship opportunities for PhD students ($34,000/year + tuition/fees)

PARTICIPATING DEPARTMENTS:

- Geography
- Ecosystem Science and Management
- Recreation, Parks, and Tourism Management
- Agricultural Economics
- Geosciences
- Anthropology
- Landscape Architecture
- Civil and Environmental Engineering
- Energy and Mineral Engineering

Contact Information

Questions? Contact Program Director
Dr. Erica Smithwick at smithwick@psu.edu

PennState

NSF