

A BURNING QUESTION

eyeChallenge

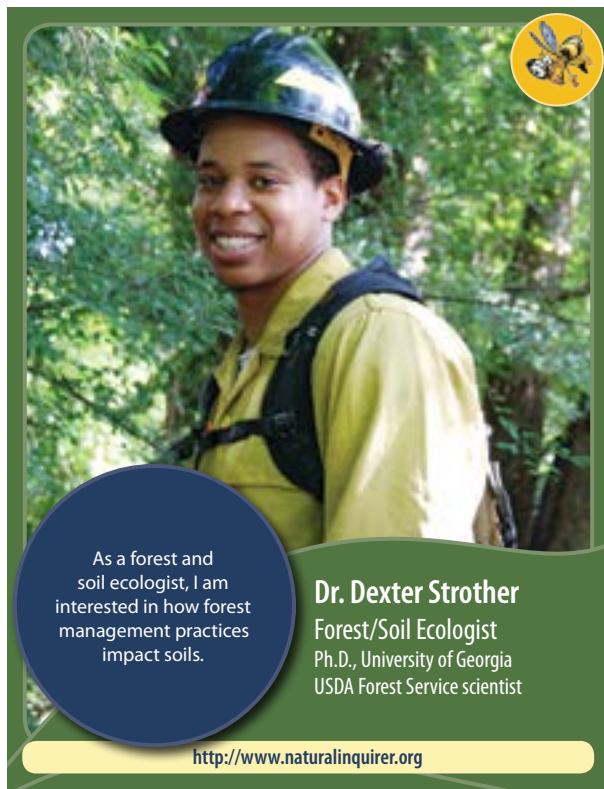


In this article, you learned about scientists and engineers who studied wildfire prevention education programs. Forest Service scientists and engineers study many different topics related to wildland fire. Below, you will read about eight different Forest Service fire scientists and engineers. Each scientist and engineer is presented on the front of a trading card.



You can order these and other scientist and engineer cards for free by visiting www.naturalinquirer.org/Scientist-Card-Ordering-Page-v-155.html.

Answer each of the questions beginning on page 36 based on your observation of these eight scientist and engineer cards. You may answer these questions in a class discussion or write your answer below the question. If you write, use correct spelling, punctuation, and grammar.

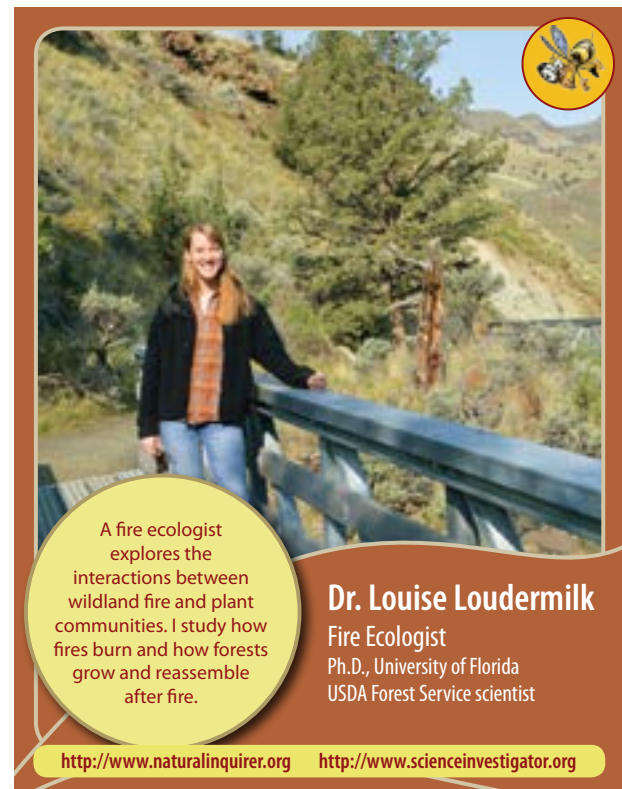


A trading card for Dr. Dexter Strother. The top half features a photograph of a woman wearing a yellow fire-resistant shirt and a black hard hat, smiling. A small circular icon of a bee is in the top right corner. A dark blue circular callout bubble on the left contains text. The bottom right of the card has a white background with text. A yellow bar at the bottom contains a URL.

As a forest and soil ecologist, I am interested in how forest management practices impact soils.

Dr. Dexter Strother
Forest/Soil Ecologist
Ph.D., University of Georgia
USDA Forest Service scientist

<http://www.naturalinquirer.org>

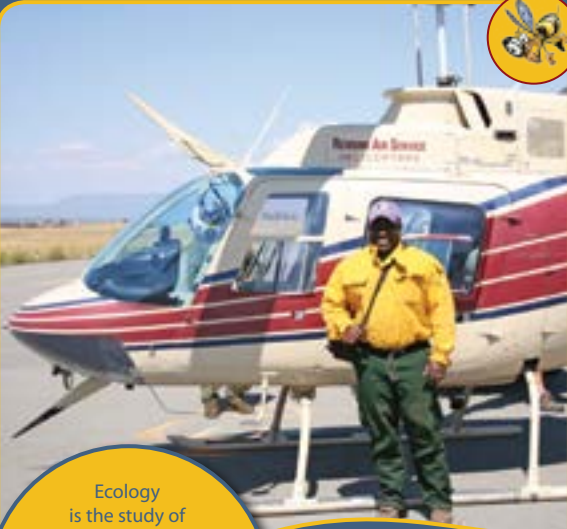



A trading card for Dr. Louise Loudermilk. The top half features a photograph of a woman standing on a wooden bridge over a stream in a forested area. A small circular icon of a bee is in the top right corner. A yellow circular callout bubble on the left contains text. The bottom right of the card has a white background with text. A yellow bar at the bottom contains two URLs.

A fire ecologist explores the interactions between wildland fire and plant communities. I study how fires burn and how forests grow and reassemble after fire.

Dr. Louise Loudermilk
Fire Ecologist
Ph.D., University of Florida
USDA Forest Service scientist


<http://www.naturalinquirer.org> <http://www.scienceinvestigator.org>

Ecology is the study of interactions between organisms and their environment. A fire ecologist studies fire as a disturbance process in the environment.

Dr. Morris C. Johnson
 Research Fire Ecologist
 Ph.D., University of Washington
 USDA Forest Service scientist



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Fire ecologists study how wildfire changes ecosystems. As a fire ecologist, I focus on forests. Specifically, I study the impacts of removing fire from, or changing how fires burn in, forests which originally had fire.

Dr. Sharon Hood
 Fire Ecologist
 Ph.D., University of Montana
 USDA Forest Service scientist

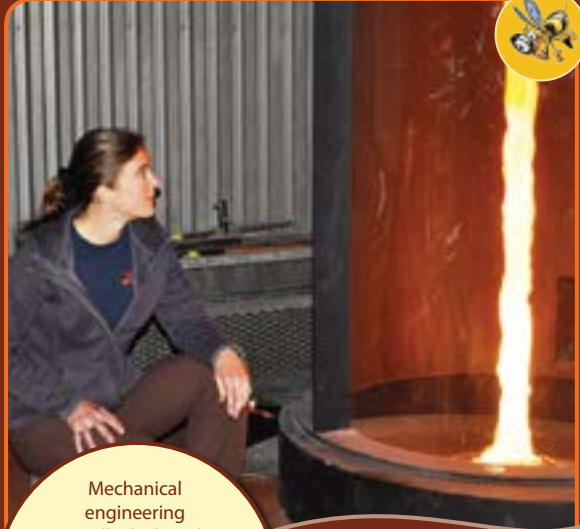

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As a research fire ecologist, I study how vegetation, weather, and terrain interact to influence wildland fires.

Dr. W. Matt Jolly
 Research Fire Ecologist
 Ph.D., University of Montana
 USDA Forest Service scientist


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Mechanical engineering usually deals with things that move. This includes automobiles and roller coasters, as well as manufacturing processes, such as fluids, heat, and fire.

Dr. Sara McAllister
 Research Mechanical Engineer
 Ph.D., University of California
 USDA Forest Service scientist


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A landscape fire ecologist studies: How past and present forest fires spread across large areas, how the fire impacts the forest (which trees are killed and which trees survive), what trees begin to grow after the fire and; how surviving trees and the new vegetation influence how future fires spread.

Dr. Pepe Iniguez
Landscape Fire Ecologist
 Ph.D., University of Arizona
 USDA Forest Service scientist

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A forester studies how forests and woodlands grow, function, and are managed to provide things that people want and need from forests. Specifically, I study prescribed fire and how it can be used as a tool to manage our forests and wildlands.

Dr. David R. Weise
Forester (specializing in fire)
 Ph.D., USDA Forest Service scientist
 University of California - Berkeley
 USDA Forest Service scientist

<http://www.naturalinquirer.org> <http://www.scienceinvestigator.org>

Observe each fire scientist and engineer closely. What similarities and differences do you notice about the scientists and engineers themselves? What extra equipment do they have with or on them? What do you think is the purpose of this extra equipment?

Observe the setting of each photograph. Describe the setting, noting similarities and differences between each scientist and engineer card. What do you think each scientist or engineer is doing in this setting?

What kinds of fire scientists and engineers are represented on these cards?

Read about each of these fire scientists and engineers. Which of these fire scientists and engineers is your favorite and why?
