

FIUteach Partners:

We are pleased to extend an exclusive offer for STEAM PD to our FIUteach elementary and middle school partners. Through our collaboration with scientists from the *Florida Coastal Everglades Long Term Ecological Research Program (FCE)* at FIU and the *Artists in Residence in the Everglades (AIRIE)* we are extending this special invitation for you to spend a day with an FCE scientist and an AIRIE artist through the *AIRIE-FCE STEAM PD*. The AIRE-FCE STEAM PD is a three part series that covers: Habitat, Man & Community, and Water. In each Saturday session, participants will spend the morning with a different FCE scientist and the afternoon with an AIRIE artist, at the AIRIE Nest, in the Ernest Coe Visitor Center, Everglades National Park, in Homestead. Additional information is provided below.

Pending approval, participants will be eligible to earn Master Plan Points, \$100 stipend, and an airboat tour with one of our experts. Applicants are encouraged to apply as a "STEAM Team" consisting of at least one math/science teacher and one art teacher from your school. Individual teachers are also invited to apply. Space is limited and this opportunity will be opened to other teachers at noon, on November 1, 2017.

Submit your application at: <https://www.surveymonkey.com/r/AIRIESTEAM>

Hope to see you there!

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### **PD Description/Introduction:**

AIRIE's Summer Everglades Teacher Development Workshop Series has been created to fill a void in the understanding of the natural wetlands of South Florida and the challenges faced. Presenting three full day workshops led by FIU professors and AIRIE Fellows for Miami-Dade Public School teachers. The series will focus on central elements that play a critical role in the makeup of the Florida Everglades; Water, Habitat, Man and Community. Environmental and scientific concepts will be taught in the morning followed by an artist led activity in the afternoon. Teachers will be instructed on how to use the information and skills given to communicate the story of the Everglades. They will also be directed on how to engage their students through the tool of social media. On alternate dates an airboat tour of Conservation Area 3A with Love the Everglades will be available to all participants and will count as additional professional development points.

ARIE's Teacher Development Workshop Series will take place on November 18, December 2, and December 9, 2017 from 9AM - 3:30PM in the AIRIE NEST, located at the Ernest F. Coe Visitor Center in the Everglades National Park.

**WATER—Saturday, November 18, 2017 9:00-3:30 @ Ernest Coe Visitor Center, Everglades National Park—limited to 20 participants**

The Florida Everglades provisions filtered water to Miami-Dade County through a completely natural method called ecosystem service. Water travels from Lake Okeechobee down through the Everglades where it slowly flows over porous limestone and is filtered. In this workshop, we will be taking a closer look at the waters course through South Florida and the challenges it's facing.

**MAN & COMMUNITY—Saturday, December 2, 2017 9:00-3:30 @ Ernest Coe Visitor Center, Everglades National Park—limited to 20 participants**

The history of the Everglades is one written by man. It was the words of land speculators which promised a subtropical Eden that drew millions of farmers to Florida to settle. Followed were the words of the founding mother of Miami, Julia Tuttle that brought the railroad to Miami, and ultimately it was Marjory Stoneman Douglas, who used her words to preserve the Everglades for future generations. We will discuss the effects we as a growing population have had on the Everglades and how we can help.

As we work to restore the Glades, teachers will learn to guide their students in articulating the challenges of this fragile and unique wilderness through poetry led by Airie Fellows.

**HABITAT—Saturday, December 9, 2017 9:00-3:30 @ Ernest Coe Visitor Center, Everglades National Park—limited to 20 participants**

All the habitats in the Everglades are defined by one key attribute: height. Even a slight difference in elevation can transform a sawgrass prairie into a cypress swamp, or a mangrove forest into a slough. Each of these habitats provides a home for different species and how each is being challenged by climate change. We will be discussing not only the differences between the Florida Everglades various habitats but also introduce students to the danger of invasive species and how they become a threat to the natural balance of things.

Teachers will learn to use sculpture as a means of demonstrating how elevation differentiates habitat and how sea level rise threatens to drown many Everglades habitats.

**FCE-AIRIE STEAM Lab: Love The Everglades AIRBOAT TOUR—limited to 15 participants each day**

Counting as additional professional development points (no additional stipend) Teachers are invited to attend an Airboat tour with the founders of the Love The Everglades Foundation. Love the Everglades is a not for profit organization whose mission is to implement evolving strategies across the full spectrum of being which address the environmental, structural, cultural and spiritual problems plaguing the Florida Everglades by raising awareness and organizing positive community engagement at the local, regional, national and global levels. Through a tour of conservation Area 3A Teachers will be presented an introduction to Everglades restorations, Miccosukee cultural perspectives and environmental protection initiatives, political challenges as well as artistic and spiritual interpretations.

—Saturday, November 19, 2017 11:00-3:00 @ Miccosukee Indian Village - Mile Marker 36, US Highway 41, Miami, FL 33194—Prerequisite 11/18 Water PD

—Saturday, December 3, 2017 11:00-3:00 @ Miccosukee Indian Village - Mile Marker 36, US Highway 41, Miami, FL 33194—Prerequisite 12/2 Man & Community PD

—Saturday, December 10, 2017 10:00-2:00 @ Miccosukee Indian Village - Mile Marker 36, US Highway 41, Miami, FL 33194—Prerequisite 12/9 Habitat PD