



# MATH/SCIENCE NUCLEUS

4074 Eggers Drive

Fremont, California 94536

(510) 790-6284

[msn@msnucleus.org](mailto:msn@msnucleus.org) <http://msnucleus.org>

## Application for MSN Environmental Intern Projects (2017-2018)

Lam Research Foundation and Alameda County Flood Control and Water Conservation District have funded the Environment Intern program sponsored by the Math Science Nucleus. This internship is free to students who are selected.

Interns will learn about environmental issues in the local area. They will learn how to analyze water for nutrients and elements using probes and spectrophotometers. They will learn about soil, composting, and importance in restoration. They will learn different techniques of restoration especially on what tools to use. Students will learn about how microorganisms can help determine the health of environment, and many other environmental parameters include how humans have changed their environment. Each day will blend lecture and outdoor experience.

About 10-15 students will be selected depending on funding. To qualify they need to have taken one year of science in high school and need to be a sophomore or higher. They would have to attend two week training session (July 10-14, 17-21) from 10 am – 3 pm. Added restoration sessions will depend on group.

Tule Ponds at Tyson Lagoon will be used for basic training on spectrophotometers (chemical analysis); ecology, and methods of restoration. We will also do work at California Nursery Historical Park learning about native and non-native trees and how to take care. We will also do work at Masonic Home taking care of the trees and learn about larger scale composting and reforestation. We also will have an opportunity to look at several other sites. Scientific illustration techniques will also be a component of this year's training.

This internship is meant for students who are serious about science and applying their knowledge to solve problems. Applications should include the following information in an email or word document and sent to Dr. Blueford ([blueford@msnucleus.org](mailto:blueford@msnucleus.org)). Deadline is April 1, and acceptance emails will be sent by April 15, 2017.

Some students will be able to continue projects during the school year (2017-18).

Name \_\_\_\_\_

School \_\_\_\_\_ Grade \_\_\_\_\_

Email \_\_\_\_\_ Phone \_\_\_\_\_

What city do you live in? \_\_\_\_\_

List your science classes and teacher: \_\_\_\_\_

1. Why should we select you to be a Scientific Intern? (5 sentences maximum )
2. What is your greatest strength? (2 sentences maximum)
3. Tell me about a time that you participated in a team, what was your role? (3 sentences maximum)