

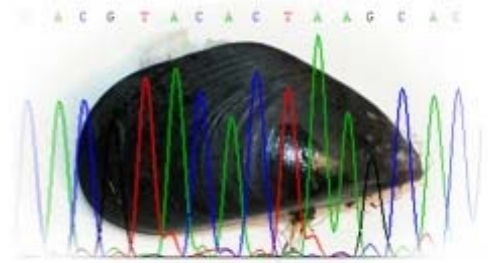


Moss Landing Marine Laboratories &
California State University Monterey Bay



Present

MARINE BIOTECHNOLOGY AND BIOINFORMATICS



Would you like to receive graduate credit, continuing education credit, a stipend, materials for your classroom, and learn how to support your standards-based lessons with marine science, biotechnology and bioinformatics?

You are invited to participate in a National Science Foundation funded program at Moss Landing Marine Laboratories (MLML) this summer for in-service middle and high school teachers.

Location: Moss Landing Marine Labs & field sites
Date: June 20 – July 8, 2005 (M-F only)
Time: 9:00 am to 5:00 pm
Stipend: \$1050



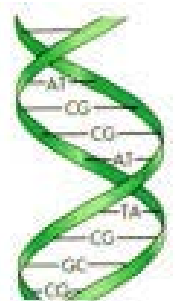
Participants will use biotechnology and bioinformatics (the use of computers to store, retrieve and analyze biological data) techniques to investigate a local invasive mussel. The goal of this program is to take teachers through the hands-on process that scientists use in modern marine scientific research. Workshop participants will start with a marine organism and use



biotechnology techniques to generate their own DNA data. They will then analyze their data using bioinformatics software available through the program's website. Participants will also visit the Center for the Study of the Human Genome, Monterey Bay Aquarium Research Institute, and a commercial biotechnology laboratory.

Each teacher will receive exportable materials and institute staff support in the classroom during the following academic year for the incorporation of marine biotechnology and bioinformatics concepts into their curricula. The following summer teachers will return to MLML to teach portions of the curriculum to students using the MLML facilities and with the help of program staff.

- Intensive 14-day summer course at MLML based on current local marine scientific research
- Follow-up program that provides support staff to assist teachers in incorporating new materials into their curriculum
- 1-week opportunity the following summer for teachers to use what they have learned to teach their students at MLML



Graduate credit:
CEU's:

5 units available through CSU Monterey Bay
11.2 units available through CSU Monterey Bay

To register or for more information, please visit our website at <http://teach.mlml.calstate.edu> and click on the program name or contact Traci Conlin at (831) 771-4472 or tconlin@mlml.calstate.edu.

This workshop is sponsored by NSF's Information Technology Experiences for Students and Teachers (ITEST) Program.

