



# Marine Biotechnology and Bioinformatics

Workshop 2008

## ***A unique opportunity for Central Valley teachers!***

*Explore current marine science research while learning to incorporate stimulating, hands-on biotechnology and bioinformatics activities that will recharge and refresh your middle or high school science classroom.*



As a participating in-service or pre-service teacher from the Central Valley, you will use the latest biotechnology<sup>1</sup> and bioinformatics<sup>2</sup> techniques to investigate a relevant scientific question. During this program, you will learn to analyze DNA using bioinformatics software. You'll also explore pedagogical strategies and modify lesson plans for engaging students in marine science research.

<sup>1</sup> the use of biological processes to solve problems or make useful products

<sup>2</sup> the use of computers to store, retrieve and analyze biological data



## ***Workshop Overview***

- Immerse yourself in a cutting edge science program based on current marine science research
- ***Be a scientist and do practical science***
- Participate in comprehensive lectures, lab activities, and computer exercises that you can incorporate into your science classroom
- Create your own standards-based science lesson plans with expert instructional and science education assistance
- Modify the program's unique instructional resources to suit your needs
- Implement bioinformatics and biotechnology in your classroom with assistance of a workshop researcher
- Earn 3.0 graduate course credits
- Earn a stipend (Summer lodging also provided for travel over 60 miles)

**Three Saturdays: May 3, 17, 31 plus**  
**Two weeks in the summer: July 6 – 19, 2008**

## ***Locations***

**Saturday sessions** are held at San José State University, San Jose, CA or by remote participation using live, web-based, collaboration tools

**Summer locations** include California State University, Monterey Bay and field sites near Moss Landing Marine Laboratories, Moss Landing, CA

***Apply by April 25***  
***for priority placement of teachers from the Central Valley***

Application materials and more information can be found at the workshop website: <http://www.marinebiotech.net>. Contact Traci Conlin at [tconlin@mlml.calstate.edu](mailto:tconlin@mlml.calstate.edu), or call (831) 771-4431. *Enrollment is limited!* Apply now for your special placement. Applications received after March 1 will be processed on a first-come, first-serve basis.

*Presented by*

Moss Landing Marine  
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