

# Oceanic Institute 2016 Workshop: Molecular Tools Used in Marine Science



Oceanic Institute of Hawaii Pacific University (OI-HPU) is offering two (2) week-long workshops (March 7-11<sup>th</sup> or April 4-8<sup>th</sup>) on the use of molecular tools in marine science. The workshops are for residents of Hawaii and U.S.-Affiliated Pacific Islands who are early-career marine science professionals, science teachers (secondary), or students (graduate and advanced undergraduate) pursuing a career in marine science. Each workshop is limited to twelve participants.

OI-HPU is a recognized leader in aquaculture research, with both national and international projects on-going at our facility in Waimanalo, HI. Recently a state-of-the-art molecular laboratory was built. The laboratory is equipped for DNA extraction, PCR, quantitative PCR, Sanger Sequencing, bacterial analysis and microscopy.

During the week-long workshop, each participant will gain hands-on experience using molecular tools in the context of on-going research projects at OI-HPU. Our goal is to introduce participants to the molecular techniques and equipment used in today's genetic laboratories, providing take-home skills necessary to advance their career.

Topics include:

- Tissue sampling and preservation
- DNA extraction and "clean up"
- Polymerase Chain Reaction (PCR)
- Microsatellite analysis
- Parentage assessment
- Determination of genetic diversity
- Environmental DNA (eDNA)
- Sequencing basics
- Introduction to bioinformatics

To apply, please fill out an [application](#) and send to Dr. Brett Olds ([bolds@hpu.edu](mailto:bolds@hpu.edu)). The deadline for receipt of applications is February 19<sup>th</sup> 2016. There is no cost to participants as they are defrayed with support from National Oceanic and Atmospheric Administration.



Visit

[oceanicinstitute.org](http://oceanicinstitute.org)  
for more information  
on current research,  
people and facilities.



**Oceanic Institute**  
HAWAI'I PACIFIC UNIVERSITY

