

Looking for a fun summer research opportunity?

Coastal Research Institute

*A partnership of LMU Seaver College of Science and Engineering
and The Bay Foundation*

Offering Paid Summer Internships

LMU's Coastal Research Institute (CRI) Internship and Research Assistant Program provides hands-on learning opportunities using applied science in restoration and research projects. This opportunity is available to Seaver College undergraduate students in Summer 2024 and work will continue during the following academic year. This program provides students with a \$2,500 summer scholarship to conduct research and work with CRI for a 6-week period during LMU's Summer Session I. Housing is available on a limited basis. Please note pre-requisite requirements for some individual research projects.

APPLICATION PROCESS

Students may apply by downloading and electronically filling out the Application Form pdf. Submit the form via email (as a pdf) with an attached current resume (also pdf) to:

CRI@lmu.edu

***Application forms and resumes are due by
5 PM (Pacific Time) on Wednesday, March 13, 2024***

Students may choose their interests from any of the following four opportunities and need to confirm availability for Summer Session I in the Application Form. Students who are selected for the internship program from the pool of applicants are expected to commit a minimum of 25 hours per week up to a maximum of 30 hours per week on the research or restoration project. Selected students will likely be notified by March 22, 2024.

Questions about the Application Form or Internship and Research Assistant Program should be directed to: Lambert.Doezema@lmu.edu

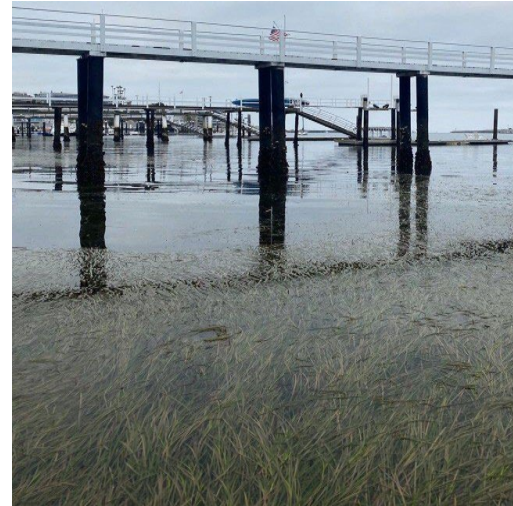
Applications and resumes should be emailed as pdfs to: CRI@lmu.edu

** Note: Students are encouraged to submit applications early, if possible.*

INTERNSHIP AND RESEARCH ASSISTANT OPPORTUNITIES

1) Seagrass Ecology Research and Conservation - Dr. Bittick

Seagrasses are an important foundation species that help to mitigate climate change while providing habitat to numerous algae, invertebrates, and fishes. This project builds on previous work considering how multiple stressors, especially human-caused stressors, impact the productivity and ecosystem functioning of seagrass. Students will work on a variety of approaches to inform ongoing seagrass management and restoration. One approach is a systematic review analyzing previous studies to consider the impact of stressors on seagrasses of the genus *Zostera* and current approaches to conservation. Students will also conduct laboratory, field, and quality assurance work to consider the distribution and functioning of local *Zostera* meadows. Previous field or lab experience is helpful, but not required.



2) Marine Invertebrate Physiology Research - Dr. Vasquez

This research project aims to understand the stress tolerance of marine invertebrates to climate change stressors (changes in seawater temperature, salinity, oxygen, pH). Students will work on developing a protocol for assessing the effect of stressor exposure on physiological parameters of marine mussels. The ultimate goal is to determine the physiological capacity of marine organisms to deal with environmental stress that will be used to predict potential impacts of climate change. Previous field or lab experience is helpful, but not required.



INTERNSHIP AND RESEARCH ASSISTANT OPPORTUNITIES

3) Understanding Variation in Floral Scent Emissions in Coastal Dunes - Dr. Eisen

This research project aims to understand if floral scent - the volatiles that some plants emit - varies over the course of a flowering season in a coastal dune habitat, where the environment and co-flowering plant community change over time. Students will help to census plant communities in the Manhattan Beach and/or Santa Monica restored dune sites, and collect and analyze floral scent samples, which will include both fieldwork and lab work. The ultimate goal of this research is to understand how species interactions and trait variation together may influence the long-term success of native plant restoration. Previous field or lab experience is helpful, but not required.



4) Coastal Dune Ecology - TBF Watershed Program

Within the context of advancing our knowledge of sand dune morphology and ecology, we will define student research with consideration about what interest the students. In addition to the research project that they work on, students will have the opportunity to see multiple aspects of restoration work by helping The Bay Foundation with maintaining and monitoring the coastal sites where we work. Students will gain experience in multiple sites and will have a variety of experiences in the broad discipline of restoration.



INTERNSHIP AND RESEARCH ASSISTANT OPPORTUNITIES

Application can be found here:

