**Data Analysis Internship**

Benioff Ocean Science Laboratory

University of California, Santa Barbara

Fall 2023

*The Benioff Ocean Science Laboratory is seeking UCSB students with interest in marine science, data analytics, and engineering.*

**About the Benioff Ocean Science Laboratory**

Based at the Marine Science Institute at UCSB, the Benioff Ocean Science Laboratory applies marine science and technology to create scalable solutions to pressing ocean health challenges. The research group both manages and financially supports projects that address a variety of marine issues, including species protection, ocean pollution, and sustainable management of marine resources.

**Internship Description**

The intern will have the unique opportunity to support two Benioff Ocean Science Laboratory projects, Whale Safe and Clean Currents Coalition. Whale Safe uses state-of-the-art technology to collect, analyze, and disseminate near real-time whale and ship data in the Santa Barbara Channel and San Francisco region with the goal of preventing fatal whale-ship collisions. Clean Currents Coalition uses plastic capture systems and data collection technologies, including computer vision, to track, count, and prevent pollution in major rivers around the world from entering our oceans.

The intern will collaborate with Benioff Oceans scientists and software engineers to analyze ship and whale data, annotate and organize plastic pollution image data, and support the data and reporting needs of the projects.

**Responsibilities**

➢ Assist with data tasks including but not limited to:
  ○ Visualizing spatial ocean data, including vessel (Automatic Identification System) and whale data from technologies such as near real-time acoustic monitoring instruments, visual sightings, and dynamic habitat models
  ○ Creating summary reports of whale and vessel data for industry and research partners
  ○ Organizing images in our dataset of plastic pollution for use in our machine learning model
➢ Use Google Cloud Platform (BigQuery SQL) to query vessel data used to create analytical reports
➢ Use annotation software (such as CVAT) to annotate various classes of plastic items in an image dataset
➢ Assist in administrative tasks and project support as needed

**Basic Qualifications**
➢ Currently pursuing an undergraduate or graduate degree at UCSB
➢ Interest in marine science and environmental problem-solving
➢ Interest in adding technology and data skills to their toolkit
➢ Proactive and team-oriented
➢ Strong organizational skills, attention to detail, and ability to meet deadlines

**Additional Preferred Qualifications**
Professional, academic, or volunteer experience in one or more of the following areas:
➢ Data management, analysis, and visualization, including proficiency with one or more computational analytical tools, including but not limited to R, ArcGIS, and/or QGIS
➢ Cloud computing, including experience with services such as Google Cloud Platform
➢ Experience in a coding language including R, SQL, or Python

This is a part-time internship (10-15 hr/wk) for the Fall 2023 quarter, with the potential to extend into the Winter and Spring 2024 quarters based on performance and funding availability. Compensation is $18/hr for undergrads and $20/hr for graduate students.

The Benioff Ocean Science Laboratory is committed to promoting diversity, equity, inclusion, and justice (DEIJ) in our field of marine science. We proactively strive to bring the voices, intellect, and talents of people of all colors, backgrounds, and identities into our work to further science and conservation, and we commit to taking concrete actions to achieve our vision of a more diverse and inclusive organization. We strongly encourage candidates from marginalized or underrepresented groups to apply.

We encourage all applicants to submit an optional Statement of Contributions to Diversity with their application materials. Please describe and give specific examples of how you have worked to enhance or develop your awareness on issues of diversity and inclusion in the workplace or other professional or academic environments.

**To apply, please send a cover letter, resume, and the optional Statement of Contributions to Diversity to bosl-contact@ucsb.edu with the subject line “Data Analysis Internship” by September 1, 2023.**
The University is especially interested in candidates who can contribute to the diversity and excellence of the academic community through research, teaching and service.

The University of California is an Equal Opportunity/Affirmative Action Employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability status, protected veteran status, or any other characteristic protected by law.