The MarineOmics working group, part of the NSF-funded Research Coordinated Network (RCN) for Evolution in Changing Seas, is recruiting three undergraduate researchers for a 9-week, remote, paid internship beginning March 1st, 2021. This internship is a valuable opportunity for students interested in global change, marine biology, evolution and/or genomics. Students from groups presently and historically underrepresented in STEM are particularly encouraged to apply.

**How to Apply** - To apply for the MarineOmics Undergraduate Research Internship, please complete this Google form by February 5th, 2021, 11:59 pm Hawaii-Aleutian Standard Time. Further instructions for how to apply can be found in the form's instructions. Evaluation criteria are listed on the second page of this document. Any questions about the internship or application can be directed to RCNECS.MarineOmics@gmail.com.

**Internship Activities** - Research interns will work under the mentorship of two graduate students or postdocs to contribute to an evaluation of reproducibility in marine genomics research. Activities will involve reading and synthesizing scientific literature, evaluating code, monthly virtual seminars with invited speakers, virtual meetings with mentors and other interns, and a final formal presentation to the RCN. At the completion of the position in May 2021, interns will be encouraged to continue contributing to writing a manuscript on the results of the study for publication in a peer-reviewed journal. The working group aims to submit this manuscript in September 2021. Interns will also learn about genomic applications addressing issues related to marine population biology, conservation, and global change and develop skills in conducting reproducible and fundamental genomic analyses.

**Eligibility** - Eligible students are undergraduates enrolled in their second year of college or later majoring in biology, environmental science, biochemistry and/or related fields. Introductory-level experience with coding (R, Python, Java, etc.) is encouraged but not required. Students must be US citizens in order to receive stipend support.

**Stipend Support** - Research interns will each receive a stipend of $3000. The position will last 9 weeks excluding students’ spring break, beginning March 1st, 2021 and ending May 7th 2021, with a time commitment of 20 hrs per week ($16.67/hr). Meetings and seminars will typically be during weekdays, but otherwise work hours are flexible.

**MarineOmics** - The MarineOmics working group aims to promote accessibility, reproducibility, and synthesis across research related to the adaptation of marine populations to global change. To meet this aim, the group is (i) conducting a review of reproducibility in population genomic studies of marine taxa and (ii) fostering discussion within the evolutionary and marine biology fields to identify recommendations for best practices in marine genomic research. These guidelines will be published on the working group’s website. The group is presently composed of ten early career researchers (graduate students and postdoctoral researchers) and two faculty advisors representing eight institutions across two continents.

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1 Reproducibility - The ability of a study to be replicated by other scientists using the methods, data, and/or code provided by the original authors. Reproducibility is essential for scientific progress.
Criteria for evaluation:

1. Application writing quality
   a. Are the applicant’s responses clear, engaging, and do they directly address each prompt?

2. Academic performance
   a. Has the applicant pursued a challenging and relevant curriculum during their undergraduate studies?

3. Intellectual engagement
   a. How does the applicant express interest in or demonstrate past engagement with the themes of the working group and internship?

4. Prior experience
   a. Does the applicant have no, some or extensive research experience? Will the applicant benefit from the internship or have they acquired similar experience already?

5. Organizational ability
   a. Do the applicant’s references, experience, and responses demonstrate strong organizational and time management skills? These qualities are key for getting the most out of the collaborative nature of the working group and advancing data management skills.

6. Commitment to diversity
   a. Does the applicant hold a background, identities or experiences that are historically and/or presently underrepresented in the life sciences and STEM?
   b. Does the applicant demonstrate a developed understanding of the barriers and/or opportunities they have experienced in their academic and professional pursuits?
   c. Does the applicant demonstrate an ability to communicate effectively across a diversity of cultural, gender-based or socioeconomic differences?

7. Professional and/or academic references