

Job Description

Job Title: JIMAR PIFSC Quantitative Ecologist (Benthic)
Job ID: 10003
Project Name: JIMAR
Full/Part Time: Full-Time
Regular/Temporary: Regular

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Job Summary

Regular, Full-Time, RCUH Non-Civil Service position with the School of Ocean and Earth Science and Technology (SOEST), Joint Institute for Marine and Atmospheric Research (JIMAR), located at the National Marine Fisheries Service (NMFS), Pacific Islands Fisheries Science Center (PIFSC) in Honolulu, Hawaii. Continuation of employment is dependent upon program/operational needs, satisfactory work performance, and availability of funds.

MINIMUM MONTHLY SALARY: \$4,935/Mon.

DUTIES: Works with the PIFSC Coral Reef Ecosystem Division's (CRED) multidisciplinary program to enhance the statistical and analytical capacity of the Coral Reef Ecosystem Division to publish and present past and future results from ecological marine studies across the Pacific Islands region. Leads efforts to evaluate, coordinate, and improve project's integrated assessment and long-term monitoring program such that statistically sound findings and strategic advice can be provided to marine resource managers. Designs, expands, implements, and improves sampling methodologies, survey protocols, and field experiments which facilitate statistically valid analyses of field observations and timely production of presentations, reports, and publications. Serves as the Lead for the Benthic Team providing guidance and supervision to the overall team and develops, establishes, and monitors work plans and team objectives and assists the CRED Chief with strategic scientific advice and identifying research priorities and direction. Evaluates, compiles, processes, integrates, summarizes, and analyzes interdisciplinary data from marine ecosystem research surveys into management-relevant products. Designs, develops, tests, implements and documents state-of-the-art statistical methods that are appropriate for interdisciplinary and multi-scale data analyses and integration. Conducts analyses involving multivariate statistics, spatial statistics, ecological modelling and simulation, spectral analysis, and other quantitative techniques relating to statistical power and change detection. Integrates research findings and summaries into project's interdisciplinary context, and prepares and submits manuscripts for publication in technical reports and refereed scientific literature, as well as makes presentations to professional/scientific bodies and educational venues, both nationally and internationally. Prepares and delivers presentations as part of the PIFSC coral reef ecosystem education and outreach efforts. Participates in research cruises.

PRIMARY QUALIFICATIONS: **EDUCATION:** Ph.D. from an accredited college or university in the field of Quantitative Ecology, Statistics, Marine Biology, Zoology, Botany, Biology, or other relevant discipline. (Master's Degree from an accredited college or university and five (5) years of relevant work experience in quantitative ecology with a publication record in one of the above field may be substituted for a Ph.D. degree) **EXPERIENCE:** Three to five (3-5) years of experience with independent quantitative marine or terrestrial ecological research utilizing state-of-the-art statistical procedures for multi-disciplinary spatial data. Three to five (3-5) years of experience with the design and implementation of an integrated ecosystem assessment and monitoring program, and with quantitative field survey methodologies. One to three (1-3) years of supervisory experience supervising scientific staff and technicians. Experience with carrying ecological research projects to completion and publishing results, including first authorship on at least two peer-reviewed journal

articles. Experience working on interdisciplinary research teams. Experience coordinating with partner agencies concerned with research, conservation, and management of ecosystems.

ABIL/KNOW/SKILLS: Working knowledge of sampling theory, experimental design, spatial statistics, population dynamics, ecological modelling/simulation and other advanced statistical procedures for data analyses. Working knowledge of large and complex relational database management systems, and data integration techniques. Working knowledge of biological, physical, and ecological processes, particularly in marine ecosystems. Knowledge and understanding of principles and practices in the fields of biometrics, community ecology, population biology, conservation biology, landscape ecology, and natural resource management. Proficiency with R, S-Plus, PRIMER, SAS, Matlab, and/or other advanced statistical software packages. Proficiency with using advanced statistical and analytical procedures including multivariate analysis, spatial analysis, ecological modelling and simulation, spectral analysis, and other quantitative techniques relating to statistical power and change detection. Ability to coordinate the integration and management of large and complex relational databases and spatial databases. Familiarity with Geographic Information Systems (GIS) applications. Proficiency with basic office productivity software tools (word processors, spreadsheets, presentation software). Must possess excellent written and verbal communication skills to write scientific manuscripts and technical reports, and to make presentations that are suitable for a range of audiences. Must possess strong interpersonal skills to work with principal investigators, researchers, resource managers, and administrators. Ability to provide supervision and guidance to scientific and technical staff with various levels of education and experiences. Ability to work and make decisions independently and to meet programmatic requirements within schedule and budgetary constraints. Ability to independently plan, implement, and manage projects. Must possess a valid driver's license to assist with transporting equipment and gear. Must be able to pass all training requirements, including but not limited to basic boating, first aid, CPR, and oxygen assistance. Other training requirements may include advanced coxswain training, advanced first aid, and forklift training. Must be SCUBA certified (NAUI, PADI, etc.) to meet the standards established by the program's diver certification process (which meets the standards set by the American Academy of Underwater Science). Must be able to complete UH/NOAA diving certification, which includes meeting the physical, watermanship, academic, and experience requirements. Must be able to complete SCUBA diving advanced open water certification with a minimum of forty (40) dives and possess good free diving skills. **Post Offer/Employment Conditions:** Must meet the US Department of Commerce, National Oceanic and Atmospheric Administration security requirements for working in a federal facility which includes being fingerprinted and having a federal background check performed. **PHYSICAL/MEDICAL REQUIREMENTS:** Must be able to obtain NOAA Medical Clearance for embarking/working on NOAA research vessels or other appropriate vessels which includes providing proof of required immunizations and/or obtaining the necessary immunizations as required by NOAA Marine and Aviation Operations. Ability to work for long hours, outdoors at various captive facilities and remote locations with high exposure to sunlight, aboard research vessels and aboard small boats (15-20') in coastal and oceanic waters. Ability to lift up to fifty (50) pounds of scientific instruments, scuba gear and equipment.

SECONDARY QUALIFICATIONS: Experience with underwater ecological survey methodologies. Experience with scientific SCUBA diving. Experience at-sea aboard large research or fisheries vessels for extended periods. Experience with marine ecosystems, particularly coral reef ecosystems. Familiarity with coral reef ecosystem organisms, particularly Indo-Pacific species. Experience in supervising Post-Doc and PhD level staff and developing program objectives. Proficiency with ESRI ArcGIS 9. Experience with programming and scripting languages. Experience with the design and development of relational databases and spatial databases. Knowledge of U.S. marine resource management policies, including management strategies for coral reef ecosystems.

INQUIRIES: Nicole Wakazuru 956-9465 (Oahu).

APPLICATION REQUIREMENTS: The preferred method of applying for a job is through our on-line application process. Please go to www.rcuh.com, click on "Employment" and navigate to "Job Announcements/Apply for a Job." However, if you do not have access to the Internet, you may apply by submitting resume; cover letter including Recruitment ID#, referral source, narrative of your qualifications for position and salary history; names, phone numbers and addresses of three supervisory references and copy of degree(s)/transcripts/certificate(s) to qualify for position by fax (808) 956-5022 or mail to Director of Human Resources, Research Corporation of the University of Hawaii, 2530 Dole Street, Sakamaki Hall D-100, Honolulu, HI 96822 before the closing date. If you have questions on the application process and/or need assistance, please call (808)956-3100.

EEO/AA Employer.

Please apply before: 02/04/2010

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