

Bulletin Board Posting: 11/03/10
RCUH Website: 11/03/10

JIMAR PIFSC QUANTITATIVE ECOLOGICAL SPECIALIST – ID# 10651. Joint Institute for Marine and Atmospheric Research. Regular, Full-Time, RCUH Non-Civil Service position with the 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:** \$3,620/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. Evaluates, 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. 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. Degree from an accredited college or university in the field of Quantitative Ecology, Statistics, Marine Biology, Zoology, Botany, Biology, or other relevant discipline. (A Master's Degree and an additional 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:** One to three (1-3) years of experience with independent quantitative marine or terrestrial ecological research utilizing state-of-the-art statistical procedures for multi-disciplinary spatial data. One to three (1-3) years of experience with the design and implementation of an integrated ecosystem assessment and monitoring program, and with quantitative field survey methodologies. Experience in implementing ecological research projects and publishing results, preferably authorship in 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 modeling/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 modeling 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 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 publishing results, including first authorship on at least two peer-reviewed journal articles. 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 956-5018 (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, mail, or hand-deliver 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. Online applications and faxed documents must be submitted/received by the closing date (11:59 P.M. Hawaii Standard Time/RCUH receipt time). Mailed documents must be postmarked by the closing date. Hand-delivered documents must be received by our HR office by 4 P.M. Hawaii Standard Time/RCUH receipt time. If you have questions on the application process and/or need assistance, please call (808)956-3100. **CLOSING DATE: November 22, 2010.** EEO/AA Employer.