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, availability of funds, and compliance with applicable Federal/State laws.

MINIMUM MONTHLY SALARY: $3,837/Mon.

DUTIES: Serves as the lead for satellite imagery related benthic habitat mapping projects within the PIFSC Coral Reef Ecosystem Division's Mapping Group. Develops and implements methods for deriving nearshore bathymetry and other habitat mapping products from WorldView-2 and/or other satellite imagery. Develops, tests, documents, and implements methods for deriving other biologically important characteristics of coral reef ecosystem habitats and environments from satellite imagery and producing mapping information products. Integrates map products derived from satellite imagery with those developed from multibeam echosounder and in situ optical imagery. Trains and directs others in the use of developed methods to systematically map coral reef ecosystems across the Pacific Islands. Assists with all phases of the preparation, execution, and reporting of research cruises and land-based small boat missions. Works closely with partners in local jurisdictions and research institutions to build strong collaborative relationships. Provides assistance with management of the project, including proposal writing, administrative functions, and training and mentoring of personnel. Participates in research cruises and land-based small boat surveys to map, assess, and monitor coral reefs of the Pacific islands. Prepares technical reports and scientific manuscripts describing methods and summarizing results of their application. Presents findings at national and international meetings.

PRIMARY QUALIFICATIONS: EDUCATION: PhD from an accredited college or university in Remote Sensing, Ecology, Marine Biology, Oceanography, or other relevant discipline involving studies of the use of satellite imagery to quantitatively derive information about biological or physical characteristics of the seafloor (Master’s Degree from an accredited college or university and at least five (5) years of relevant work experience in the use of satellite imagery to quantitatively derive seafloor information with a publication record in one of the above fields may substitute for a PhD Degree). EXPERIENCE: Up to one year (0-1) year of experience developing, testing, and implementing methods for deriving seafloor depths or other biologically important characteristics of coral reef ecosystem habitats and environments from satellite imagery. ABIL/KNOW/SKILLS: Understanding of the acquisition, applications, and limitations of satellite imagery for marine research. Strong working knowledge of quantitative methods for manipulating data from satellite imagery for underwater applications. Working knowledge of common statistical procedures used with data derived from satellite imagery to develop methods and test results. Knowledge of spatial statistics. Basic knowledge and understanding of marine physical/biological processes. Proficiency with image processing software used to work with satellite imagery, such as PCI Geomatica, ENVI, etc. Proficiency with ArcGIS 9/10, or other GIS software. Proficiency with programming in C++, Python, MATLAB, or other language suitable for processing satellite imagery datasets. Proficiency with basic office productivity software tools (word processors, spreadsheets, presentation software). Excellent written
and verbal communication skills. Demonstrated ability to publish scientific articles in peer reviewed journals. Ability to work and make decisions independently and to meet programmatic requirements within schedule and budgetary constraints. Ability to independently plan, organize, and implement projects. Strong interpersonal and organizational skills to work with Principal Investigators, other researchers, and translate technical information into terms understandable by non-technical personnel. Must possess a valid driver’s license. Post Offer Employment Requirement: 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: Ability to remain at sea for extended periods of time. 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 SCUBA gear and equipment. Post Offer/Employment Conditions: Must be able to obtain medical clearance for embarking/working on NOAA research vessels or other appropriate vessels and small boats in coastal and oceanic waters, which includes providing proof of required immunizations and/or obtaining the necessary immunizations as required by NOAA Aviation and Marine Operations.

SECONDARY QUALIFICATIONS: Knowledge of quantitative ecological methods. Experience working with multibeam and light detection and ranging (LIDAR) bathymetry data and acoustic backscatter imagery. Proficiency with Adobe Illustrator or Adobe Premier. Proficiency with programming in Python, Avenue, VBA, or Perl. Administrative experience with Windows and/or UNIX networks. Experience with relational databases and spatial databases. Experience at sea for extended periods of time aboard research or fisheries vessels. Familiarity with coral reef ecosystem ecology and organisms, particularly Indo-Pacific species. Experience operating and or maintaining small boats.

INQUIRIES: Nicole Wakazuru-Yoza 956-5018 (Oahu).

APPLICATION REQUIREMENTS: Please go to www.rcuh.com, click on “Employment”; select “Apply” and navigate to “See Job Announcements and/or Apply for a Job.” You must submit the following documents online to be considered for the position: 1) Cover Letter, 2) Resume, 3) Salary History, 4) Supervisory References, 5) Copy of Degree(s)/Transcript(s)/Certificate(s). All online applications must be submitted/received by the closing date (11:59 P.M. Hawaii Standard Time/RCUH receipt time) as stated on the job posting. If you do not have access to our system and the closing date is imminent, you may send additional documents to rcuhr@rcuh.com. If you have questions on the application process and/or need assistance, please call (808)956-8344.

EEO/AA Employer.

Please apply before 12/31/2012