

Job Description

Job Title: JIMAR PIFSC/EOD Bioacoustics Research Specialist
Job ID: 29431
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), Ecosystem & Oceanography Division (EOD) in Honolulu, Hawaii. Continuation of employment is dependent upon program/operational needs, satisfactory work performance, and availability of funds.

MINIMUM MONTHLY SALARY: \$3,222/Mon.

DUTIES: Works with NMFS sponsor to analyze multi-frequency active acoustics and environmental data to estimate the effects of the environment on the composition and biomass of micronekton in pelagic and insular environments. Uses active acoustics methods to study the distribution and movement patterns on top predators, such as tunas. Research will be analytical but include a field component. Co-authors reports and manuscripts on the area of research for publication.

PRIMARY QUALIFICATIONS: **EDUCATION:** Master's degree from an accredited college or university in an appropriate field of study such as Fisheries Acoustics, Fisheries Biology, Oceanography, Marine Biology, or Mathematics/Statistics. **EXPERIENCE:** One to three (1-3) years experience or background in working with active acoustics data to study the composition and biomass of micronekton or background in working with active acoustics data to study the distribution and biomass of micronekton scattering layers. Up to one year (0-1) year experience detecting fish tracks and fish schools using active acoustics methods. One to three (1-3) years experience or background using Matlab to analyze data sets. Previous experience in participating on oceanographic cruises, collecting bioacoustics data. **ABIL/KNOW/SKILLS:** Good understanding of spatial and temporal dynamics of micronekton and large pelagics. Knowledge of bioacoustics and its applications to study distribution and movement patterns of tuna and micronekton. Understanding of statistical methods, especially biostatistics, as it applies to processing bioacoustics data. Ability to work with bioacoustics data analysis tools (such as Echoview, Movies+, etc). Ability to work with post-processing computational software such as Matlab or R. Good computer and communication skills. Ability to work with large complex data sets. Ability to work as part of team and independently as needed. **Post Offer Employment Requirement:** Must meet 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.

SECONDARY QUALIFICATIONS: PhD from an accredited college or university in an appropriate field of study such as Fisheries Acoustics, Fisheries Biology, Oceanography, Marine Biology, or Mathematics/Statistics. One to three (1-3) years experience developing and/or applying multi-frequency inversion algorithms to estimate micronekton biomass and composition of scattering layers using active bioacoustics data in pelagic environments. Up to one year (0-1) experience applying

biostatistics methods to estimate the biomass of large pelagic, such as tunas. One to three (1-3) years experience working with active acoustics data in shallow environments such as seamounts or insular regions. Publications on any of the following topics: use of bioacoustics to study micronekton distribution, composition, and biomass; use of biostatistics to estimate biomass of large pelagics; the use of bioacoustics to study the effects of various environmental factors on micronekton or on top predators.

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: 10/26/2009

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