

Job Description

Job Title: Marine Mammal Signal Processor Researcher
Job ID: 12035
Project Name: HIMB
Full/Part Time: Full-Time
Regular/Temporary: Regular

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Regular, Full-Time, RCUH Non-Civil Service position with the University of Hawaii, Institute of Marine Biology, located 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: Salary commensurate with qualifications.

DUTIES: Conducts signal processing data reduction on extramural projects involving remote autonomous underwater acoustic recorders. Conducts signal processing on marine mammal biosonar signals, whistles and calls. Develops automatic signal processing algorithms to analyze archival data in order to detect and classify different marine mammal species. Develops collaborative research projects with the marine animal bio-acoustics community to exploit the unique diagnostic capabilities of developed algorithms. Analyzes research results and prepares progress reports for funding agencies and as advised by PI.

PRIMARY QUALIFICATIONS: EDUCATION: Ph.D. from an accredited college or university in the field of Engineering, Mathematics or Physics. **EXPERIENCE:** One to three (1-3) years experience in analyzing dolphin-like biosonar signals and acoustic calls of baleen whales. **ABIL/KNOW/SKILLS:** Excellent understanding of passive monitoring technologies, time-frequency analysis of underwater acoustic signals, feature extraction and identification, neural network classification, and machine learning methodologies. Ability to read and comprehend highly technical mathematical manuscripts and be able to break highly mathematical and technical literature into simple more understandable format for others to understand. Must have excellent communication skills, verbal and written. Ability to write research grant proposals.

SECONDARY QUALIFICATIONS: At least one (1) year of experience in analyzing underwater marine mammal acoustic data.

INQUIRIES: Dr. Whitlow Au 247-5026 (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.

EEO/AA Employer.

Please apply before 01/26/2012

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