Job Description

Job Title: JIMAR PIFSC Biogeochemist
Job ID: 29581
Project Name: JIMAR
Full/Part Time: Full-Time
Regular/Temporary: Regular

MINIMUM MONTHLY SALARY: $4,569/Mon.

DUTIES: Leads and undertakes the biogeochemical research and monitoring of the ecological impacts of climate change, particularly the role of ocean acidification, on a range of spatial and temporal scales, as it pertains to coral reef ecosystems of the Pacific Islands region. Initiates and develops collaborations to investigate various aspects of ocean acidification and related impacts of climate change. Designs, develops, expands, implements, and improves sampling methodologies, survey protocols, and field experiments to obtain biogeochemical datasets, including carbonate and nutrient chemistry. Processes, analyzes, and summarizes biogeochemical and multi-disciplinary data from surveys and other sources. Contributes to data management and development of data products on biogeochemical datasets relevant to monitoring and understanding the ecological impacts of ocean acidification, land-based sources of pollution, and other related phenomena. Publishes and communicates results in scientific literature and through presentations to a wide variety of stakeholders. Provides supervision, training, and guidance to scientific and technical staff in research area. Participates in research cruises, marine ecosystem surveys and observation networks to assess and monitor coral reefs, which involves field surveys, the deployment and recovery oceanographic instrument platforms, and data transmission, analysis, and creation of data products. Works with project staff and personnel from other agencies as necessary to secure continued and/or additional funding support, and to satisfy reporting requirements of funding agencies for existing support. Collaborates with researchers from other agencies, and coordinates with partner agencies on marine ecosystem research and conservation projects.

PRIMARY QUALIFICATIONS: EDUCATION: Ph.D. from an accredited college or university in the field of Oceanography, Chemistry, Marine Geochemistry, Biochemistry, Chemical Oceanography or related field. EXPERIENCE: Three to five (3-5) years of marine biogeochemical work experience with data analysis, report writing, and marine survey techniques. Experience in collecting and analyzing oceanographic data and seawater samples for biological, chemical and physical parameters. Experience conducting oceanographic data analyses, time-series analyses, and other procedures commonly used by practitioners. Previous experience at sea for extended periods (20 continuous days or more) of time aboard research vessels. Demonstrated research and refereed publication record in the areas of ocean acidification, impacts of climate change on the marine environment, and related topics. Experience with analytical techniques used to investigate carbon cycling in marine environments. ABIL/KNOW/SKILLS: Strong knowledge of geochemistry and carbon cycling in the marine environment. Strong knowledge of water quality monitoring (sampling design, analytical methods, data interpretation). Strong knowledge of field and laboratory methods and instrumentation.
used to measure carbon cycle variables in the marine environment. Working knowledge of hydrodynamic factors influencing near-shore marine environments. Working knowledge of statistical procedures to perform spatial and time-series data analyses, including development of monitoring programs and the interpretation of results. Working knowledge of marine/oceanographic instrumentation used to measure water quality (properties and constituents) and hydrodynamic variables. Proficiency with the operation, deployment, and data analysis of oceanographic instruments and sampling methodologies. Demonstrated ability to use GIS software. Ability to use statistical, analytical, and data presentation software. Proficiency with basic office productivity software tools, including word processors, spreadsheets, graphics programs, and MS PowerPoint. Demonstrated ability to initiate and develop collaborations to investigate biogeochemistry and related issues with scientists from other agencies and institutions. Demonstrated verbal and written communication skills, including public speaking. 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 and oxygen assistance. Must possess Certification in First Aid/CPR (or be able to obtain the certificate following training provided within twelve months of hire). 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.

SECONDARY QUALIFICATIONS: Experience and knowledge of state-of-the-art marine biogeochemical field survey methods, analytical techniques, and marine instrumentation to investigate ecological impacts of ocean acidification and land-based sources of pollution on coral reef ecosystems. Experience with the processing and analysis of sidescan and multibeam sonar data. Working knowledge of MatLab and relational database systems. Experience with Global Positioning System (GPS) receivers and data. Experience with the analysis of satellite remotely sensed datasets. Understanding of and experience with biogeochemical and climate models. Familiarity and certifications in the operation and maintenance of small boats and other vessels. Demonstrated ability to apply for and be awarded significant multi-year competitive scientific research grants.

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: 01/18/2010