Job Description

Job Title: ORE Marine Research Engineer
Job ID: 10295
Project Name: SOEST
Full/Part Time: Full-Time
Regular/Temporary: Regular

Job Summary

Regular, Full-Time, RCUH Non-Civil Service position with the Ocean & Resource Engineering Department in the School of Ocean & Earth Science & Technology (SOEST), located in Honolulu, Hawaii. Continuation of employment is dependent upon program/operational needs, satisfactory work performance, and availability of funds.

MINIMUM MONTHLY SALARY: Salary commensurate with qualifications.

DUTIES: Responsible for a new ocean engineering research and development laboratory focused on ocean observing including sensor network infrastructure and integrated acoustics (navigation, communications, and science, such as ocean acoustic tomography). Responsible for overall engineering design of equipment and instrumentation in support of field research operations. Conduct system integration in the lab and at sea testing of instrumentation, electronics, and cable and connectors. Responsible for directing field operations at sea. Manages overall logistics of fieldwork including equipment preparation, shipping, personnel transportation, and scheduling. Prepare, deploy, pilot, and recover underwater gliders and other autonomous craft. Responsible for maintenance of all Lab space, equipment and tools shared by the research group. Document all work, leading to engineering conference papers. Supervise University of Hawaii (UH) engineering students.

PRIMARY QUALIFICATIONS: EDUCATION: Bachelor's Degree from an accredited four (4) year college or university in Ocean Engineering, Oceanography or a related field. An equivalent level of experience and/or training is acceptable. EXPERIENCE: At least seven (7) years of post-graduate experience in ocean engineering design, fabrication and fieldwork within a research and development environment with time at sea. Experience with ocean instrumentation and platforms at all water depths, including at full ocean depth on the seafloor. Experience with software such as MatLab, Labview, Linux, Windows, C++, HTML, and Basic. ABIL/KNOW/SKILLS: A broad, well-founded base drawing from electrical, mechanical and software engineering, with specialization expected and desired in one or more of these areas. A broad scientific knowledge base and the ability to interpret the wants and needs of scientists and translate them into functional instrumentation. Knowledge of all engineering aspects of marine scientific instruments; quality assurance and quality control principles; telecommunications and time distribution principles; and project management concepts. Knowledge of materials under pressure (e.g., plastics and titanium), and corrosion. Knowledge of the operating principles and the implementation thereof of cabled ocean observatories. Knowledge of the operating principles and the implementation thereof to glider and other autonomous vehicle operation, including buoyancy and buoyancy engine construction and operation, attitude control, guidance and control. Knowledge of sensors, pressure cases and connectors, navigation and communications, and...
associated software. Broad understanding of the ocean and earth research and development endeavor. Able to design, integrate and construct complex ocean instruments and systems. Knowledge of data acquisition systems and signal processing. A sound understanding of analog and digital design and interfacing with and programming microcomputers. Printed Circuit Board (PCB) design experience using Eagle or similar design software. Good working knowledge of Computer Aided Design (CAD) systems such as SolidWorks, including Computational Fluid Dynamics (CFD). Demonstrate troubleshooting ability and proficiency with laboratory test equipment and hands-on practical skills. Ability to organize, analyze, interpret and evaluate problems and provide practical, cost effective solutions. Demonstrate ability to learn and acquire understanding of a wide range of new systems. Ability to lead small to medium sized engineering teams. Good written and verbal communications skills and ability to interact with others. Ability to plan, organize and monitor the work and activities of self and direct reports, according to priorities, established schedules and deadlines. Able to establish and maintain a working environment conducive to positive morale, individual style, quality, creativity, and teamwork. Must possess a valid driver's license. Able to work at sea aboard University research vessels. Must possess Certification in First Aid/CPR (or be able to obtain the certificate following the training provided within twelve months of hire). PHYSICAL/MEDICAL REQUIREMENTS: Able to lift fifty (50) pounds of equipment. Must be able to swim and snorkel.

SECONDARY QUALIFICATIONS: Able to operate machine shop equipment such as lathes and milling machines. Able to design pressure cases. Able to interact in innovative and practical ways with research scientists and engineers. Able to construct and follow detailed project budgets and use project management tools such as Gantt charts for planning and allocating resources.

INQUIRIES: Bruce Howe 956-0466 (Oahu) or bhowe@hawaii.edu.

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: 07/30/2010

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