Job Title: ISLA Field Sys Engineer & Analyst  
Job ID: 27176  
Project Name: SOEST  
Full/Part Time: Full-Time  
Regular/Temporary: Regular  
Closing Date: 04/17/2007

Job Summary

Regular, Full-Time, RCUH Non-Civil Service positions with the Infrasound Laboratory (ISLA) located in Kailua-Kona, Hawaii. Continuation of employment is dependent upon program/operational needs, satisfactory work performance, and availability of funds.

Minimum Monthly Salary: 
$3,291.00.

Duties:
- Provides technical support for permanent and portable field monitoring stations.
- Responsible for logistics, planning, design, construction, inspection, production, application, installation, maintenance, operation, and standardization of facilities, structures, systems, processes, equipment, devices, software, or materials associated with recording stations.
- Assists the Principal Investigator by carrying out mechanical, electrical, electronic and telecommunications design, operation and maintenance.
- Responsible for data analysis support and data quality assessment.
- Assists the Principal Investigator with programming, data analysis, interpretation, writing of papers, presentation of results, planning of future projects, and maintaining computers and databases used by laboratory staff.

Minimum Qualifications:

Education:
- Bachelors Degree from an accredited four (4) year college or university in Physics, Geophysics, Engineering Sciences, Applied Science, or related field; or equivalent training and experience.

Experience:
- Two to four (2-4) years of related experience in industry, military, or academic work requiring extensive knowledge of standard guides, precedents, methods and techniques for field data acquisition systems.
- Three to five (3-5) years of experience in digital signal processing and waveform analysis.

Abil/Know/Skills:
- Expertise in communication, multiplexing, digital telemetry, photovoltaic power systems, electronic design and repair, circuit board diagnosis, and digital signal processing.
- Knowledge of the principles, practices, methods, and techniques of other branches of engineering and other organizational units as they relate to the area of assignment.
➢ Expertise in real-time acquisition, processing, and archiving of digital waveform and image data.
➢ Knowledge of time-series, spectral analysis, digital signal processing, array processing, and automatic signal classification algorithms.
➢ Working knowledge of MATLAB and UNIX.
➢ Knowledge of GMT or similar mapping software.
➢ Ability to perform independent scientific research and to present results in papers and presentations.
➢ Ability to program two or more of the following languages:
  ➢ MATLAB, Java, Perl, C, or FORTRAN.
➢ Proficiency with waveform analysis software, such as Antelope and Matseis, and image processing tools.
➢ Ability to help administer and maintain computer and network systems.

Physical/Medical Requirements:
➢ Able to lift and carry fifty (50) pounds of equipment.

Desirable Qualifications:
➢ Masters Degree from an accredited college or university.
➢ Proven experience in designing, installing, and maintaining robust communication and power systems.
➢ Experience in seismic or acoustic data acquisition systems and time series analysis.
➢ Knowledge of Earthworm and database administration.
➢ Possess the ability to plan and organize large-scale assignments containing many problems and variables.
➢ Ability to develop new lines of approach and new or improved techniques in engineering and signal processing.

Inquiries:
Milton Garces 327-6206 (Hawaii).

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. EEO/AA Employer.