Job Description

**Job Title:** Post-Doctoral Fellowship (Ecological Genomics & Metabolomics)

**Job ID:** 10344

**Project Name:** UHH/EPSCR

**Full/Part Time:** Full-Time

**Regular/Temporary:** Regular

---

**Job Summary**

Regular, Full-Time, RCUH Non-Civil Service position with the Experimental Program to Stimulate Competitive Research (EPSCoR), Ecological Genomics and Metabolomics (ECOGEM) team, located at the Hawaii Institute of Marine Biology (HIMB) 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:** Conduct research to investigate molecular responses of coral reef ecosystems as an indicator of environmental stress, across both temporal and spatial scales. Collaborate in the design and development of a custom cDNA microarray for the Hawaiian reef-building coral. Develop and utilize methods for conducting successful microarray experiments. Validate microarray data using RT-PCR, cloning and sequencing techniques, and integrate genomic data with physiological and environmental data. Collaborate with researchers on genomic projects and help train researchers, undergraduate interns and visiting scientists in functional genomic techniques and applications. Participate at workshops and meetings and deliver presentations. Prepare reports and results for publication in peer-reviewed journals. Assist in the preparation of proposals to funding agencies as well as contributing to annual reports.

**PRIMARY QUALIFICATIONS:**

EDUCATION: PhD from an accredited college or university in Biology, Molecular Biology, Genetics, Functional Genomics, Cell Biology or related field.

EXPERIENCE: Must have experience in the following essential areas: expertise in full-length cDNA microarray construction, development and utilization of cDNA microarray technologies for research on responses of non-model marine organisms to environmental stressors, managing genomic datasets, including statistical analysis, gene discovery and compliance with information dissemination requirements (i.e. MIAME).

Experience in experimental design of large-scale genomic projects in non-model systems.


Knowledge of current microarray software and techniques is essential. Skilled in molecular techniques (e.g. cloning, polymerase chain reaction (PCR), Real-Time (RT)-PCR). Skilled in functional genomic techniques (e.g. microarray printing, hybridization and validation). Strong interpersonal and organizational skills. Must possess excellent verbal and written communication skills.

**SECONDARY QUALIFICATIONS:**

Familiarity with GenePix, GeneSpring, Cluster, TreeView and other microarray-specific software and statistical programs. Knowledge of current and existing environmental stress literature in marine organisms, including corals.

**INQUIRIES:** Ruth Gates rgates@hawaii.edu (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: 07/03/2010