## Job Description

**Job Title:** Postdoctoral Fellowship (Natural Products Chemistry)  
**Job ID:** 10433  
**Project Name:** UHH/EPSCR  
**Full/Part Time:** Full-Time  
**Regular/Temporary:** Regular

---

### Job Summary

Regular, Full-Time, RCUH Non-Civil Service position with the Ecological Genomics & Metabolomics (ECOGEM), University of Hawaii Hilo (UHH), located in Hilo, 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:** Will study the effects of invasive species and climate change in the Hawaiian environment. Responsible for the isolation of structurally diverse secondary metabolites from extracts of select species terrestrial plants and marine organisms. Determines the structures of the isolated natural products. Develops chromatographic (HPLC) methods for the analysis of crude extracts of the corresponding natural products suitable for implementation on LC-MS. Supervises the research work of undergraduate and professional student. Participates in outreach and scientific dissemination activities.

**PRIMARY QUALIFICATIONS:**  
**EDUCATION:** Ph.D. from an accredited college or university in natural products chemistry, organic chemistry (with emphasis on natural products) or pharmacognosy.  
**EXPERIENCE:** Must possess a solid understanding of phytochemistry and secondary metabolism in plants. General working knowledge of chemical ecology and ecological sciences.  
**ABIL/KNOW/SKILLS:** Must possess a solid understanding of phytochemistry and secondary metabolism in plants. General working knowledge of chemical ecology and ecological sciences. Must possess laboratory isolation skills including liquid-liquid extraction, countercurrent chromatography (High Performance Centrifugal Partition Chromatography (HPCPC)/ High-Speed Countercurrent Chromatography (HSCCC)), column chromatography, Low Pressure Liquid Chromatography (LPLC), Medium Pressure Liquid Chromatography (MPLC), Vacuum liquid chromatography (VLC), High Pressure Liquid Chromatography (HPLC) (analytical and semipreparative) and Thin layer chromatography (TLC). Structure determination skills shall include 1D and 2D homonuclear and heteronuclear NMR spectrometry, mass spectrometry, Fourier transform infrared (FT-IR) and UV/Vis spectrophotometry as well as chiroptical and wet chemical methods. Must possess strong communication skills (written and verbal).

**SECONDARY QUALIFICATIONS:** At least one (1) year of postdoctoral experience and must have demonstrated experience in the isolation and structure determination of complex natural products documented by publications in peer-reviewed journals. Experience as part of an interdisciplinary team. Previous experience in the supervision of undergraduate/graduate researchers.

**INQUIRIES:** Dr. Robert Borris 981-8001 (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, 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: 09/01/2010

https://psweb.rcuh.com/psc/exapp_psprod89/EMPLOYEE/HRMS/c/HRS_HRS.HRS_APP... 8/10/2010