

Postdoctoral Research Associate (Chemist); christina.dorado@usda.gov

Description

Job Description – The Agricultural Research Service (ARS) is the United States Department of Agriculture's chief scientific research agency and one of the world's premiere scientific organizations. ARS Postdoctoral Research Associates are hired to supplement a lead scientist's research on agricultural problems of high national priority affecting American agriculture.

Responsibilities – Incumbent is responsible for the following: Extracting and identifying compounds from oak plant tissue that mitigate HLB in citrus plant material via bioassay-guided chemical fractionation. Using various physical and chemical extraction techniques including energized dispersive guided extraction and steam explosion and will be required to collaborate and coordinate with University of Florida and USHRL project team members. Studies conducted to determine optimum conditions for the extraction and recovery of the oak plant tissue compounds of interest. HPLC-MS, GC-MS, NMR and other techniques will be utilized to characterize the compounds. Transferring knowledge gained from laboratory extraction systems to bench and pilot-scale processes to support green house and field trials. Reports research results at scientific meetings, and author manuscripts for publication in scientific journals.

Qualifications – Males born after 12/31/1959 must be Selective Service registered or exempt. Subject to satisfactory adjudication of background investigation and/or fingerprint check. Direct Deposit – Per Public Law 104-134 all Federal employees are required to have federal payments made by direct deposit to their financial institution. Successfully pass the E-Verify employment verification check. To learn more about E-Verify, including your rights and responsibilities, visit E-Verify at <https://www.e-verify.gov/Appropriations>. Law and Immigration Law requirements must be met. This position requires a Ph.D in (chemistry, plant biology, and/or entomology. Professional knowledge of plant biology, molecular biology and analytical chemistry is required. Experience with analytical instrumentation, specifically HPLC-MS and GC-MS is required. Experience with NMR and energized dispersive guided extraction is desired) or a related field of study that has equipped the applicant with the necessary knowledge, skills and abilities to perform the duties and responsibilities of the position. Applicants must meet basic Office of Personnel Management (OPM) Qualification Standard's requirements of the scientific discipline necessary to perform the duties and responsibilities of the position. Degree: physical sciences, life sciences, or engineering that included 30 semester hours in chemistry, supplemented by course work in mathematics through differential and integral calculus, and at least 6 semester hours of physics. or Combination of education and experience — course work equivalent to a major as shown above, including at least 30 semester hours in chemistry, supplemented by mathematics through differential and integral calculus, and at least 6 semester hours of physics, plus appropriate experience or additional

Hiring organization

U.S. Horticultural Research Laboratory, Ft. Pierce, Florida 34945; <https://www.usajobs.gov/GetJob/ViewDetails/608959000>

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educationEducationThis position has a positive education requirement. You must submit a copy of your academic transcripts OR a list of college courses with credit hours, dates completed, and grades received to verify education when applying for this position. If this information is not provided, your education may not be appropriately evaluated and you may lose consideration for this position. If you are selected for this position, you will have to provide an official copy of your transcripts prior to entering on duty. Application materials will not be returned. Ph.D. is required.

Job Confirmation # – 204686711

Contacts

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