Postdoctoral Research Associate; United States Department of Agriculture, Agricultural Research Service

Hiring organization
United States Department of Agriculture, Agricultural Research Service; https://www.ars.usda.gov/southeast-area/fort-pierce-fl/us-horticultural-research-laboratory/citrus-and-other-subtropical-products-research/

Date posted
December 16, 2022

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 extracting and identifying compounds from oak plant tissue that mitigate HLB in citrus plant material via bioassay-guided chemical fractionation and may contribute to the study of bioactive compounds in soil extracts. The incumbent will use various physical and chemical extraction techniques and will be required to collaborate and coordinate with University of Florida and USHRL project team members. Studies will be 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.

Qualifications – Recent Ph.D. in chemistry, plant biology, entomology, or a closely related field is required. Professional knowledge of plant biology, molecular biology and analytical chemistry is required. Experience with column chromatography, analytical instrumentation, specifically HPLC-MS and GC-MS is required. Experience with NMR and energized dispersive guided extraction is desired.

Contact – Dr. Christina Dorado, christina.dorado@usda.gov

Post End Date – 01/14/2023

Contacts

Website
- https://www.ars.usda.gov/southeast-area/fort-pierce-fl/us-horticultural-research-laboratory/citrus-and-other-subtropical-products-research/

Email – christina.dorado@usda.gov