



**College of Agricultural &
Environmental Sciences**
UNIVERSITY OF GEORGIA

Postdoctoral Research Associate Position in Molecular Plant-Nematode Interactions

Apply Here: <https://www.ugajobsearch.com/postings/222226>

Position summary: [The Mitchum Lab](#) seeks to hire a Postdoctoral Research Associate to carry out research to better understand the molecular basis of plant-nematode interactions, with an emphasis in nematode peptide effector biology. The incumbent will conduct research to identify nematode genes important for parasitism, as well as characterize and modify the host target genes essential for compatibility and resistance. The incumbent will handle and analyze genomic and/or transcriptomic datasets, clone candidate plant and nematode genes, and use a variety of molecular and genetic approaches to characterize the function of these genes in plant-nematode interactions in both crop and model plant systems. The incumbent will apply genetic engineering approaches for the development of crop plant resistance.

Relevant/Preferred Education, Experience: PhD in molecular nematology, molecular plant-microbe interactions, plant molecular biology/genetics, plant development, or related field within the past 4 years.

Knowledge, skills, abilities and/or competencies: Demonstrated knowledge and research experience in molecular plant-microbe interactions, plant development, plant and/or nematode molecular biology and genetics. Preferred candidates will have proficiency in modern molecular biology methods and techniques, cloning, statistical and bioinformatics analyses, and plant transformation in either crop or model plant systems. The successful candidate must have a demonstrated publication record in peer-reviewed journals, proficiency in written and spoken English, and proven ability to work independently and on an interdisciplinary team.

The Mitchum Lab is part of the University of Georgia's [Department of Plant Pathology](#) and [Institute of Plant Breeding, Genetics, and Genomics](#) at the Center for Applied Genetic Technologies, and a member of [The Plant Center](#), which provides a vibrant community of plant researchers at UGA and frequent interactions with the broader plant community across campus.

The University of Georgia (UGA), a land-grant and sea-grant university with statewide commitments and responsibilities, is the state's oldest, most comprehensive, and most diversified institution of higher education (<https://www.uga.edu/>). UGA is currently ranked among the top 15 public universities in U.S. News & World Report. The University's main campus is located in Athens, approximately 65 miles northeast of Atlanta, with extended campuses in Atlanta, Griffin, Gwinnett, and Tifton. UGA was founded in 1785 by the Georgia General Assembly as the first state-chartered University in the country. UGA employs approximately 1,800 full-time instructional faculty and more than 7,700 full-time staff. The University's enrollment exceeds 39,000 students including over 30,000 undergraduates and over 9,000 graduate and professional students. Academic programs reside in 18 schools and colleges, as well as a medical partnership with Augusta University housed on the UGA Health Sciences Campus in Athens.