

Two-year Postdoctoral Research Associate Position Starting January 2021

in the Laboratory of Zoonotic and Vector-borne Diseases

at the University of South Carolina

The UofSC Laboratory of Zoonotic and Vector-borne diseases focuses on the epidemiology of Spotted Fever group rickettsioses, Chagas disease, gastrointestinal parasites and emerging arboviral pathogens in the United States and Latin America. This translational research laboratory performs field sample collections and pathogen detection of clinical and insect samples in the United States, El Salvador, Brazil, Mexico and Colombia. Laboratory team members work closely with institutional cores to broaden our research capacities in molecular genetics, artificial intelligence application, and infectious disease forecast modelling. This postdoctoral research associate will work closely with Dr. Melissa Nolan to execute multiplex pathogen detection assays, sequencing, and phylogenetic analysis on pediatric cohort samples and insect vector species.

- **Qualifications:**
 - PhD in microbiology or basic science background
 - Track record of productivity, namely through primary contribution publication history
 - Supporting letters from past advisors
 - Ability to execute multiplex qPCR protocols on QuantStudio 5 RT PCR system
 - Familiarity with phylogenetic techniques
 - History of working in a clinical laboratory and working with BSL-2 pathogens
 - Works well in a collaborative, team environment
 - Independent worker with strong problem-solving skills

- **Benefits to the post-doctoral fellow:**
 - Improve grant writing skills through mentored grant writing, participation in annual grant writing workshop, and access to ample institutional resources (including internal postdoctoral funding mechanism and UofSC Postdoctoral Association membership)
 - Learn applied public health skills through work on various pathogens and environments
 - Participate in ample opportunities to publish first author peer-reviewed manuscripts
 - Supported travel to one conference each year to present your own research work
 - Be apart of translational research that directly impacts public health and clinical care of children and vulnerable populations

- **Additional information:**
 - Applicants should have received their Ph.D. within five years prior to the date of application and must complete all degree requirements before starting their appointment.
 - Appointment is initially for 24 months with a possibility of an additional 12-month extension.
 - Initial appointment and extension are subject to performance and availability of funding.
 - This position will remain open for a minimum of 5 days after which it will close when a qualified candidate is identified and/or hired.
 - Dr. Nolan's website and CV can be found here:
https://sc.edu/study/colleges_schools/public_health/faculty-staff/nolan_melissa.php

- Interested applicants should provide a CV, publication example where the applicant is primary author, and a list of three references.