

## **NJDOH Vector-borne Disease Epidemiologist/Entomologist**

The New Jersey Department of Health Vector-borne Disease Unit is seeking a Vector-borne Disease Epidemiologist/Entomologist to design and implement public health surveillance and response activities associated with vector-borne disease pathogens and for tick vectors of public health concern. This position oversees JerseySurv, the state's vector-borne disease surveillance system, and is responsible for analyzing vector-borne disease data (human, vector, animal), and producing surveillance reports used by NJDEP, NJDA, and other public health and vector control partners to target mosquito control and education activities. This position will oversee the state's tick surveillance program to investigate and measure tick presence and abundance and estimate pathogen presence and prevalence. This position will participate in field activities and collaborate with laboratory staff on the use of pathogen testing in ticks. This position will identify and research metrics and develop tools to monitor tickborne disease in humans, measure tick abundance and pathogen prevalence in ticks, and apply data and findings from tick surveillance to the impact on human-tick encounters and tickborne diseases. The information gained will be used to monitor changes in tickborne diseases geographically and over time, and to develop strategies to improve prevention of tickborne illness. This position will work with local health departments on surveillance and investigation of vector-borne diseases; ensure accurate and timely reporting to CDC; and provide epidemiological and entomological consultation and technical assistance for public health, healthcare, and vector control partners. This position serves as a backup for zoonotic disease investigations and is part of the Ebola and other viral hemorrhagic fever response team. This position is expected to maintain current knowledge of vector borne diseases and disease vectors; provide education and training programs; and prepare articles and reports for publication in scientific journals and presentation at scientific meetings.

The ideal candidate will have a master's degree in public health epidemiology and/or entomology, and demonstrated knowledge and/or experience in infectious disease surveillance and epidemiology, tick surveillance, strong data manipulation and analysis skills working with large databases, and the ability to analyze and visualize data using SAS, ARC-GIS, R, or Tableau; knowledge of the biology and epidemiology of vector-borne diseases, lab-based approaches for diagnosis of vector borne diseases and/or pathogen detection; demonstrated ability to work as part of a team and communicate effectively orally and in writing to diverse audiences.

Contact [kim.cervantes@doh.nj.gov](mailto:kim.cervantes@doh.nj.gov) for more information about this opportunity.