

**UNIVERSITY OF MARYLAND
COLLEGE OF COMPUTER, MATH, AND NATURAL SCIENCES
DEPARTMENT OF ENTOMOLOGY**

POSITION ANNOUNCEMENT

Title: *Post-Doctoral Associate*

Category Status: *Faculty, Non-Tenured, Continuing Contract (12 month(s))*

Unit: *CMNS: Entomology*

Location: *College Park, MD*

Purpose:

Apply genomic approaches to the analysis of insecticide resistance risk and management in agricultural ecosystems.

Responsibilities:

Using next-generation and long-read sequencing technology, the project aims to identify regions of the *Helicoverpa zea* genome that are evolving in response to Cry1- and Cry2-expressing crops. The post-doc will provide leadership on the project and participate in field, molecular (wet) lab, and bioinformatic components of this research aimed at identifying genes responding selection by Cry1 and Cry2 proteins in *H. zea*.

About the Department and University: Located in close proximity to the Beltsville Agricultural Research Center, National Agricultural Library, the Smithsonian Institution, and the National Institute of Health, the University of Maryland is the state's flagship and land-grant institution with 37,500 students in 12 schools and colleges, 9,000 faculty and staff, and a \$1.9B annual operating budget, including \$500M in external research funding. The Department of Entomology is a nationally recognized department that has been operating for more than 100 years. Our distinguished faculty, students, and post-doctoral fellows have won numerous University and national awards for quality research, teaching, outreach and extension, We maintain our historical focus on insects and their relatives, but the Department's interests also span a diversity of disciplines, including ecology, aquatic biology, molecular and developmental biology, genetics, biological control of insects and weeds, systematics, evolutionary biology, integrated pest management, toxicology, and insect pathology.

Qualifications:

Required— Ph.D. in Entomology, Biology, Genetics, or related fields. Candidates must have significant experience using standard molecular techniques (*i.e.* DNA isolation, PCR, gel electrophoresis) and conducting population and/or quantitative genetic analyses (*i.e.* population structure, measures of genetic diversity, QTL analysis).

Preferences:

Analysis of large genomic datasets, familiarity with the Linux command line, and use of R or Python.

Salary and Benefits:

Salary will be commensurate with experience and education. Appointment is annual with renewal based on performance and availability of funding. The University of Maryland offers an extensive benefits package.

Application Process:

Please submit your completed application package to mfritz13@umd.edu. A complete application packet includes: a cover letter describing research interests and goals, a current CV, and contact information for three references.

Closing Date:

For best consideration apply by **November 22, 2019**. Applications will be accepted until a suitable candidate is selected.

The University of Maryland, College Park, actively subscribes to a policy of equal employment opportunity, and will not discriminate against any employee or applicant because of race, age, sex, color, sexual orientation, physical or mental disability, religion, ancestry or national origin, marital status, genetic information, political affiliation, and gender identity or expression. Minorities and women are encouraged to apply