

POSITION ANNOUNCEMENT



Title: Post-Doctoral Associate

Location: College Park, MD

Department: CMNS, Entomology

Supervisors: Principal Investigators (PIs) Megan Fritz & Kelly Hamby

Salary: \$50,000 plus University benefits (<http://uhr.umd.edu/benefits/>)

Category Type: Non-tenured, continuing contract (12 mo.)

Duration: 12 to 24 months contingent upon performance

Project. Experimental validation of genomic monitoring for detection of emerging resistance to novel pest management biotechnologies.

Position Description. We are seeking a project leader who will develop and execute research to determine the timing and accuracy of genomic resistance monitoring for insecticide resistance. Experiments involve quantifying nucleotide sequence and structural changes in resistance-associated genomic regions over time, and use of forward genetic simulations to predict resistance emergence in pests under different evolutionary and population demographic scenarios. The post-doctoral scholar will be responsible for collection and analysis of data, reporting, communication of results at conferences and through peer-reviewed manuscripts, as well as mentorship and management of undergraduate researchers and other project personnel.

Minimum Requirements. 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 quantitative genetic analyses (*i.e.* population structure, measures of genetic diversity, linkage analysis).

Preferred Qualifications. Analysis of large genomic datasets, familiarity with Linux command line, and use of R and/or Python. Previous experience with forward genetic simulations in SLiM.

Closing Date. For best consideration apply by **January 1, 2023**. Applications will be accepted until a suitable candidate is selected.

Applications. Interested applicants should send a cover letter, CV/resume, and a list of 3 references to both Megan Fritz (mfritz13@umd.edu) and Kelly Hamby (kahamby@umd.edu).

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