College of Agriculture and Life Sciences
Department of Entomology and Plant Pathology

https://cals.ncsu.edu/entomology-and-plant-pathology/

Campus Box 7616
2510 Thomas Hall
Raleigh, NC 27695-7616

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Entomology Ph.D. Assistantship at North Carolina State University

A candidate is sought for a highly competitive Ph.D. assistantship at North Carolina State University in the Department of Entomology and Plant Pathology funded by the NIFA Biotechnology Risk Assessment Grants program. The specific objectives of the grant are to: 1) measure the impact of blended and structured corn refuge on *Helicoverpa zea* pupal depth, survival, and adult flight parameters in corn; 2) describe the role of cotton, soybean, and peanut as a reservoir for *H. zea* Bt resistance alleles; and 3) propose a refined model of evolution of resistance for *H. zea* using these data. This is a collaborative project with researchers at the University of Maryland, Clemson University, and the University of Florida. The candidate will be responsible for overseeing field work in North Carolina, South Carolina, and Florida, running flight mill experiments, and ensuring that samples are submitted to the University of Maryland for genetic analysis. The candidate will also be responsible for modeling the evolution of resistance given information gained during the grant period.

Entomology at North Carolina State University was ranked 5th globally by the Center for World University Rankings during 2017 and North Carolina State University was ranked 16th in top universities in the U.S. for graduate employability by Times Higher Education during 2016. Our close proximity to many industry headquarters in Research Triangle Park and Greensboro provides our graduates with the unique opportunity to choose careers among academics, government, industry, and many others. Please visit our website: https://projects.ncsu.edu/cals/entomology/

Candidates should contact Dominic Reisig directly at ddreisig@ncsu.edu and provide a CV.