



Dept. of Entomology  
404 Life Sciences Bldg.  
Louisiana State University  
Baton Rouge, Louisiana 70803

**Graduate Student Assistantship Opportunity:** Understanding the mechanisms of stink bug resistance in soybean

The Davis Lab in the Department of Entomology at Louisiana State University has a graduate assistantship available for spring 2023. The research project focuses on identifying host plant resistance to stink bugs in soybean and understanding the specific mechanisms behind the resistance. Individuals will have an opportunity to utilize host plant resistance in the field, in combination with biological control and reduced insecticide use, to lessen pest pressure and input costs, achieving a primary goal of integrated pest management.

**One PhD assistantship is available immediately for Spring 2023.** Screen soybean germplasm, advanced breeding selections, and current soybean varieties for resistance to stink bugs and identify specific resistance mechanisms in the lab, greenhouse, and field. Recombinant inbred line (RIL) populations will then be screened to develop quantitative trait loci for marker assisted selection.

**Requirements:** MS in Biology, Entomology, or related field. Interested students should have excellent organizational skills, demonstrated communications skills, experience with insect rearing, and experience with molecular techniques. Student must be initiative-taking and willing to be a part of a dynamic lab group.

**Position Details:** Students will be based in Baton Rouge, Louisiana and advised by Dr. Jeff Davis (field crop entomology, IPM). A competitive stipend, including tuition remission, will be provided. Preferred start date: January 2023

**How to apply:** Prospective students should email a statement of interest, three references, and CV to Dr. Jeff Davis (jeffdavis@agcenter.lsu.edu). Full application details for the Department of Entomology can be found [here](#) and the LSU Graduate School [here](#).

**The University:** LSU includes institutions, facilities, and programs in each of Louisiana's 64 parishes, and its campuses stretch the length of the state from New Orleans to Shreveport. Each institution plays a vital role in preparing students to incorporate new knowledge and technologies into their daily lives. LSU researchers across Louisiana are developing a wide range of innovations to improve quality of life by studying issues such as disease management, advance medical treatments, obesity, coastal protection, hurricane preparedness, energy, natural resource management and agriculture, among others. Louisiana's Flagship University is a land-, sea- and space-grant institution with academic programs in all areas of science, engineering, humanities, arts, and social sciences.

**Applications due by October 15, 2022. Anticipated Start Date: January 2023.**