The University of Nebraska-Lincoln (UNL) invites applications for a graduate research assistantship with specialization in Crop and Weed Genetics. The candidate is expected to lead a project to study the genetics of johnsongrass × ALS-inhibiting herbicide-resistant sorghum hybrids. Johnsongrass (Sorghum halepense) is a tetraploid \( (2n=2x=40) \) grass weed with two diploid parental genomes \( (2n=4x=20) \) originating from the crop sorghum \( (S. bicolor) \) and the weed \( S. propinquum \). Hybrids between johnsongrass and sorghum have been observed, but little is known about their underlying genetics. Cytogenetic, molecular, greenhouse, and field techniques will be used to characterize genetic recombination in the hybrids and determine the inheritance and expression of herbicide resistance among their progeny. The candidate will collaborate with other University of Nebraska scientists and colleagues at other institutions, present research results at professional meetings, and publish in peer-reviewed journals. Successful completion of this project will provide valuable insight in determining the impact of novel crop genes on the ecology of related species when the crop genome is ancestral to the wild species.

Interested applicants should contact Dr. Amit Jhala, amit.jhala@unl.edu, 402-840-2259, Dr. John Lindquist, jlindquist1@unl.edu, 402-472-2771, or Dr. Ismail Dweikat, idweikat2@unl.edu, 402-472-5328 for more information.

Qualifications: B.S./M.S. in Plant Biology, Plant Biotechnology, Agronomy, Agriculture, or closely related field with interest in Plant Genetics. The qualifying degree must be completed before the graduate research assistantship start date.

Student Stipend: Annual Basis - $23,400-$25,200, depending on degree program

Tuition Waiver: A tuition waiver of up to 12 credit hours per semester and 12 credit hours during summer sessions is provided with the GRA.

Health Insurance: Students on assistantships are provided health insurance at a reduced rate.

Application: Formal application for graduate studies is required. Follow the admission instructions at: [http://www.unl.edu/gradstudies/prospective](http://www.unl.edu/gradstudies/prospective)

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