The USDA-ARS Plant Science Research Laboratory, Stillwater, Oklahoma, is seeking a Postdoctoral Research Associate in Plant Genetics. The incumbent will conduct genetic and genomic studies of host plant resistance to cereal aphids (i.e. greenbug and/or sugarcane aphid) in sorghum. The research objectives are to identify mechanisms of aphid resistance in sorghum, analyze genetic diversity of resistance, to fine-map and clone a major resistance gene from sorghum plant, and to validate the function of the newly identified resistance gene(s) using gene editing and transgenic approaches. The research is expected to improve our understanding of aphid resistance in crop plants, and to identify and clone the resistance gene(s) for facilitating crop protection against aphid pests.

We are looking for highly motivated and academically outstanding candidates who want to pursue a scientific career in the fields of plant genetics and functional genomics. A strong candidate must have a background in the plant genetics and molecular biology, and demonstrated prior experience with genomic techniques, high-throughput biology, bioinformatics, plant transformation, crop breeding, etc. A Ph.D. in plant biology, genetics or related discipline is required.

This is a full time research position, which will be initially for one year, and will be renewed depending on performance and availability of funds. Salary is commensurate with qualification and experience. Please send a resume and cover letter detailing your relevant experience to Dr. yighua.huang@ars.usda.gov. Review of applications will start immediately and continue until a suitable candidate is identified.

USDA-ARS is an equal opportunity provider and employer.

Dr. Yinghua Huang
Lead Scientist & Research Geneticist
Adjunct Professor, Oklahoma State University
USDA-ARS Plant Science Research Laboratory
1301 N. Western Road
Stillwater, OK 74075, USA