



Position Description

Position Title: Postdoctoral Research Associate — Molecular Genetics and Genomics

Appointment: 100% Texas AgriLife Research. (Non tenure track, position 12 month appointment.)

This position is grant-supported by USDA-ARS and other sources. Funding is available for at least 3 years. Appointed terms are based on annual review.

General Duties and Responsibilities:

The successful candidate will join in a strong, regionally and nationally recognized research program that involves interaction with research team members at Texas AgriLife Research (Amarillo and Bushland), USDA-ARS at Bushland and Lubbock, and West Texas A&M University and with collaborators at Texas AgriLife Research and TAMU System at College Station. The research program shall focus on fundamental molecular responses to water-deficit stresses in major crop plants grown under conventional agricultural practices in the High Plains, as well as understanding the insect and disease host resistances and their mechanisms. The initial focus will be on wheat, one major goal is to perform microarray gene expression study for drought tolerance. Other studies are designed to study the mechanisms at molecular levels for adaptation to abiotic and biotic stresses including gene/QTL mapping and function analysis of those major stresses in Great Plains. Plan and conduct research with the primary objective of increasing the knowledge base for improved productivity in the High Plains crops; summarize and publish research results in peer-reviewed scientific publications. Supervise student workers, and graduate students as assigned.

Administrative Relationships:

The successful candidate will be supervised by Drs. Shuyu Liu and Jackie Rudd, wheat genetics and breeding teams and work very closely with the wheat stress physiologist, pathologist and entomologist at Amarillo and within Texas A&M System.

Qualifications: Required by Date of Appointment: Ph.D. in molecular genetics or a closely related area with similar experience.

Required Experience:

Knowledge and practical training in studying DNA, RNA, protein and gene/QTL mapping, identification and expression analysis.

Preferred Experience: Postdoctoral experience in crops molecular genetics is preferred. Successful candidate should have a strong knowledge of molecular genetics, hand on experience to work with DNA, RNA, protein and gene expression, isolations or would like to learn these new techniques.

Agency Description:

Texas AgriLife Research is an agency of the Texas A&M System and has regional locations including Amarillo and Bushland, Texas.

Headquarters:

Texas AgriLife Research at Amarillo, TX

Area Served

Primarily serves the Texas High Plains, and partners with scientists in other universities, agencies and neighboring states as appropriate.

Facilities:

Research facilities include genetics Lab located at Texas AgriLife Research, Amarillo. Shared resources with the Wheat Breeding, Stress Physiology, Pathology and Entomology Programs.

Closing Date for Applications: As soon as it is filled.

Date Position is Available:

Nov 1st, 2010.

Application Process: Please apply online at <https://greatjobs.tamu.edu>. Position Number: NOV 05163. Questions regarding the application process should be directed to Coretta McClish at 806-677-5602. If you have any questions regarding this position, you may contact:

Dr. Shuyu Liu, Assistant Professor in Small Grains Genetics
Texas AgriLife Research-Amarillo
6500 Amarillo Blvd West
Amarillo, TX 79106
Phone: 806/677-5607
Email: SLiu@ag.tamu.edu