Post-doctoral position

A postdoctoral position is available immediately in the laboratory of Dr. Tesfaye Mengiste at Purdue University (Department of Botany and Plant Pathology) to work on a collaborative project involving two other labs, Dr. Gebisa Ejeta (Purdue University, Department of Agronomy), and Dr. Tesfaye Tesso (Kanas State University). The postdoctoral scientist will engage in identification and characterization of genes for important agronomic traits in Ethiopian sorghum germplasm, such as drought tolerance, nutritional quality, and pest and disease resistance. The postdoc will participate in one or more of the following main areas of research:

1) Expected to provide bioinformatics support in mining whole genome sequences to support gene discovery activities.
2) Oversee the genotyping of a large collection of sorghum lines characterized for disease and pest resistance and nutritional quality,
3) Engage in extensive phenotyping of the collection in both field and lab,
4) Conduct genome-wide association studies,
5) May also have opportunities to undertake QTL-mapping based on existing bi-parental mapping populations and identification of genes controlling selected traits

The postdoctoral scientist will be responsible for planning and conducting experiments, data analysis, interpretation and publication of results. The position is initially for a year but renewable annually, contingent on satisfactory performance.

Requirements: The successful post-doctoral candidate will have a recent Ph.D. in bioinformatics, molecular biology, plant genetics or closely related fields. Experience in QTL analysis, next generation sequence analysis, genetic and physical mapping is desirable. Experience with latest NGS-based genome/transcriptome sequencing, genotyping by sequencing, and genome-wide association studies, genomic analysis programs. Strong skills in bioinformatics/computational biology are desirable. Evidence of good scientific writing and communication skills are important. The successful candidate will be expected to work collaboratively with other post docs, graduate students and the three collaborating investigators.

To apply: send current CV, statement of research interest and a cover letter to mengiste@purdue.edu

Tesfaye Mengiste