A Ph.D. and a Postdoctoral Scholar positions are available in the Walia Lab at University of Nebraska-Lincoln to study high night temperature tolerance in cereals crops (rice and wheat). We are using a image-based phenomics approach under controlled environment and field conditions to screen rice and wheat germplasm for resilience to high night temperature during grain development. This project presents opportunities to work in a collaborative environment with computational biologist, statistician, quantitative geneticist and image informatics expert. The candidate will focus on reproductive development under temperature stress. University of Nebraska has state-of-the-art phenomics facilities that are being used for the high night temperature project. Applicants must have a Ph.D. in Plant Biology, Molecular Biology, or Plant Genetics, or a closely related field at the time of hiring. Experience in developmental biology and/or abiotic stress tolerance project is highly desirable. Prior experience with GWAS, plant phenomics, gene expression analysis (RNA-seq, statistical analysis of expression datasets, or real-time PCR), cloning and mutant analysis is highly desirable. Preference will be given to candidates with evidence of publications and strong interest in crop improvement using genetic and functional genomics approaches. Ability to manage large-scale sequencing data is essential. Salary is commensurate with experience and qualifications.

Interested candidate should apply by email to Dr. Harkamal Walia (hwalia2 at unl dot edu); . The email should include the following: (1) cover letter explaining candidate’s research interests and how they fit with this position, (2) CV, (3) publications, and (4) contact information including phone numbers for 3 references.