PhD Graduate Research Assistantship on Irrigation Decision Support Using Remote Sensing and Crop Modeling

The University of Nebraska-Lincoln (UNL), Department of Agronomy and Horticulture, invites applications for a Ph.D. graduate research assistant (GRA). The goal of the research is to achieve high yield and profit for irrigated crops while saving water and energy, and improving the environmental quality. The specific objective of the research is to use real-time information derived from remote sensing and weather forecast as inputs to crop modeling to guide crop irrigation.

Prototypes of irrigation decision tools have been developed based on crop models. This new project is to further develop, test and validate those programs, by utilizing information derived from remote sensing and high resolution weather forecast. The PhD student will lead in (1) further development and expansion of the online app tools, (2) working with researchers and producers to apply those tools for irrigation management, and (3) collection of field data for testing and validation of the tools. The student will also have the opportunities to gain teaching experience, present and participate at professional scientific meetings. The student will be co-supervised by Drs. Haishun Yang and William Kranz.

Interested applicants should contact Dr. Haishun Yang (hyang2@unl.edu, 402-472-6372), or Dr. William (Bill) Kranz (wkranz1@unl.edu, 402-584-3857) for more information.

Qualifications: M.S. degree with appropriate academic credentials, plus strong interest on crop irrigation and web app development. The qualifying degree must be completed before the GRA start date.

PhD Graduate Research Assistantship Stipend: Annual Basis - $26,496

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.

GRA Availability: August, 2018

Application: Formal application for graduate studies is required. Follow the admission instructions at: http://agronomy.unl.edu/futuregraduate

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