

GRA Position # 534 – Crop Science

Position Graduate Research Assistant (Ph.D.), 0.5 time

Location Department of Agronomy
Throckmorton Plant Sciences Center
Kansas State University
Manhattan, KS 66506-5501

Position Description The successful applicant will join the farming system research team which focuses on dissecting complex interactions among genotype (G), environment (E), and management (M) practices via utilization of field research integrating modern statistical methods, crop modeling and remote sensing tools. The primary responsibilities of the successful candidate involve: i) field collection of crop data related to plant physiological processes related to nitrogen and water; ii) geospatial analysis and modeling of crop, soil, and weather dynamics; and iii) integration of field, crop modeling, and remotely sensed data within the G x E x M framework. The successful applicant will work in an interdisciplinary team (Rainfed Agriculture Innovation Network, RAIN) involving crop and soil scientists, modelers working together to improve farming systems and input use efficiency. The RAIN project (funded by USDA) is dedicated to sustainably increase the productivity of rainfed agricultural systems in the Southern Great Plains by increasing precipitation and nitrogen (N) use efficiency, reducing yield losses to environmental stresses and weed pressure, and restoring and enhancing soil health.

Qualifications Highly motivated students with background in Crop Science, Agronomy, Environmental Sciences, Remote Sensing, or a closely related discipline are encouraged to apply. Experience with remote sensing and crop modeling, work in field conditions, and knowledge of scientific programming languages such as Python, R, Google Earth Engine (GEE), ENVI, ArcGIS are desirable. Demonstrated excellence in course work, good written and oral communication skills, and the ability to work as a team member are also required.

Stipend Annual PhD stipend is \$29,388. Graduate Research Assistants are considered Kansas residents for tuition purposes and are responsible for paying tuition and fees.

How to Apply Applicants should send a statement of educational and career objectives, resume, transcripts (TOFEL scores for international applicants), and three references to:

Dr. Ignacio A. Ciampitti
Associate Professor, Farming Systems
Department of Agronomy, Kansas State University
2014E Throckmorton Plant Sciences Center
Manhattan, KS 66506,
e-mail: ciampitti@ksu.edu Ph: 785-532-6940;

Further information about graduate studies at KSU Department of Agronomy can be found at: <http://www.agronomy.ksu.edu> or by contacting Robert Berry at rwb7@ksu.edu

Date Available Spring 2020 or Summer 2020

Screening of applicants begins immediately and will continue until position is filled.