

CCE Internship: Precision Agriculture in Nutrient Management for Field Crops - 2017

Title of Internship: Precision Agriculture in Nutrient Management for Field Crops

Faculty Sponsors (and contact for more information): Quirine M. Ketterings, Professor, Department of Animal Science, Cornell University, <http://nmsp.cals.cornell.edu> - qmk2@cornell.edu - 607-255-3061. To apply, visit <http://cce.cornell.edu/page/internships/>.

Lead CCE Association(s) and Extension Educator Collaborators: Mike Stanyard, North West NY Dairy, Livestock, and Field Crops Team, Cornell Cooperative Extension. <http://www.nwnyteam.org/> - mjs88@cornell.edu - 585-764-8452; and Keith Severson, Cayuga County Cornell Cooperative Extension. <https://blogs.cornell.edu/cccecayuga/> - kvs5@cornell.edu - 315-255-1183.

Project Description:

In 2016, the Cornell Nutrient Management Spear Program started a collaboration with Dr. Elson Shields (Cornell Department of Entomology) and Magdeline Laba (Remote Sensing Program Leader, Cornell Institute for Resource Information Sciences, School of Integrative Plant Science, Section of Soil and Crop Sciences) on assessment of active and passive crop sensor technology and unmanned aerial systems for use in nitrogen management of corn and forage sorghum. The 2017 internship is a continuation of the project with work at the Musgrave Research Farm in Aurora, NY, and three additional on-farm locations, in collaboration with Don Specker of Dupont/Pioneer, and Cornell Cooperative Extension (Mike Stanyard, Keith Severson). The intern will assist with the precision agriculture projects for corn and forage sorghum and gain knowledge and skills in use of active crop sensors and acquisition and analyses of passive (aerial) imagery. The intern will assist other on-farm research projects, participate in extension events (attending meetings for producers, interactions with local crop consulting firms, attendance of Cornell field days, etc.), and have an opportunity to write a factsheet (<http://nmsp.cals.cornell.edu/guidelines/factsheets.html>). The internship provides an outstanding opportunity for an agriculturalist-in-training to work with professionals as they interact with producers, agribusiness, research specialists and the general public.

Successful Candidate Attributes:

A strong interest in production agriculture is essential. Coursework and/or practical experience in field crop production, soil science, and pest/disease management are preferred. A willingness to work hard, learn quickly, and professionally interact with farmers and other members of the agricultural community are essential for success in this position.

Worksite Location and Other Expectations:

The internship, based in Ithaca but with frequent travel, provides an outstanding opportunity for an agriculturalist-in-training to work with professionals as they interact with producers, agribusiness, research specialists and the general public. Work will be conducted primarily in Central and Western NY. Travel throughout the region will be required. Home-base for the internship is Ithaca. Intern must have a valid New York State drivers' license (minimum of 3 years) and good driving record. The intern is responsible for her/his own housing. The intern should be able to endure rigorous physical labor under adverse weather conditions encountered in the field. A significant amount of driving will be required, but overnight travel is not expected of the intern. Work sometimes requires early mornings, late nights, and the occasional day on the weekend.