

**Agriculture  
January 2017  
Proposal Submissions**

<b>Principal Investigator</b>	<b>Department</b>	<b>Sponsor</b>	<b>Title</b>	<b>Total Amount Requested</b>
Crofcheck, Czarena	Biosystems & Ag Eng	Environmental Protection Agency	Understanding the Impact of Pesticides on Hazardous Algal Blooms in the Ohio River	\$246,834
Ford, William	Biosystems & Ag Eng	KY Science and Technology Co Inc	KSEF RDE: Advancing Technology for Flui al N Budget Assessment: Measurement and Simulation of Nitrate Adsorption to Sediments	\$50,000
Jackson, Joshua	Biosystems & Ag Eng	KY Science and Technology Co Inc	KSEF RDE: Developing a Wireless Sensor Technology to Conduct Breast Biomechanics Research in Equestrian Sports	\$49,998
Shi, Jin	Biosystems & Ag Eng	Oak Ridge Associated Universities	Shi's Proposal to Ralph E. Powe Junior Faculty Enhancement Awards	\$10,000
Shi, Jian	Biosystems & Ag Eng	KY Science and Technology Co Inc	KSEF RDE: A Sweet BioAg Solution: Sweet Sorghum Bagasse Based Crop Yield Enhancer	\$50,000
Coyne, Mark	Plant & Soil Sciences	KY Science and Technology Co Inc	KSEF RDE: Busting the Biofilm: Using Microbial Signaling and D-Amino Acids to Disaggregate Microbial Colonization	\$49,581
Coyne, Mark	Plant & Soil Sciences	Agency for International Development	Nitrogen Removal by a Selected Consortium in Model Reactors Treating Nitrate-Rich Industrial Waste Water	\$81,435
Fisher, Colin	Plant & Soil Sciences	Council for Burley Tobacco	Topping Height of High Leaf Number Potential Varieties	\$9,500
Fisher, Colin	Plant & Soil Sciences	Council for Burley Tobacco	Pale Yellow Dark Burley	\$5,907
Goff, Ben	Plant & Soil Sciences	Council for Burley Tobacco	Optimizing the Integration of Annual Forages into Tobacco Systems	\$19,862
Green, Jonathan	Plant & Soil Sciences	Kentucky Soybean Promotion Board	Investigation of Multiple Herbicide Resistant Palmer Amaranth Populations	\$27,419
Haramoto, Erin	Plant & Soil Sciences	Kentucky Soybean Promotion Board	Integrating Cover Crops and Herbicides for Marestail Management Prior to Soybean	\$39,993
Haramoto, Erin	Plant & Soil Sciences	Kentucky Soybean Promotion Board	Optimizing Winter Cover Crops for Weed Management in Soybeans RENEWAL	\$39,993
Hildebrand, David	Plant & Soil Sciences	Kentucky Soybean Promotion Board	Development of High #-3 Soybeans	\$31,875

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Hunt, Arthur	Plant & Soil Sciences	KY Science and Technology Co Inc	KSEF RDE: Probing Transcriptome Dynamics of Hemp Using Novel Dual-Transcriptomic Approach	\$49,866
Kawashima, Tomokazu	Plant & Soil Sciences	KY Science and Technology Co Inc	KSEF RDE: Functional Dissection of Endosperm Development by Real-Time Live-Imaging	\$50,000
Knott, Carrie	Plant & Soil Sciences	Kentucky Soybean Promotion Board	Intensive Management: An Option to Increase Double-Crop Soybean Yields?	\$42,320
Knott, Carrie	Plant & Soil Sciences	Virginia Polytechnic Institute and State University	Increasing Double-Crop Acreage Across the U.S.	\$11,872
Lee, Chad	Plant & Soil Sciences	Kentucky Soybean Promotion Board	Comparing the Xtend Soybean System to the Roundup Ready System	\$17,435
Miller, Robert	Plant & Soil Sciences	Council for Burley Tobacco	Development of Early Maturing Black Shank Resistant Burley Tobacco Varieties	\$15,000
Ritchey, Edwin	Plant & Soil Sciences	Kentucky Soybean Promotion Board	Understanding the Components and Mechanisms Responsible for High Yielding Soybeans	\$34,548
Venard, Claire	Plant & Soil Sciences	Kentucky Soybean Promotion Board	Support for Technician Position with the Kentucky Soybean Variety Performance Program- Fiscal Year 2018	\$50,530
Yang, Shengming	Plant & Soil Sciences	Council for Burley Tobacco	Marker Design Based on Genotyping by Sequencing for Blue Mold Resistance in Tobacco	\$12,000
Yang, Shengming	Plant & Soil Sciences	Council for Burley Tobacco	Suppression of Axillary Buds Formation Through Manipulation of the BRANCHED1 Gene in Tobacco	\$18,000
Zhu, Honegyan	Plant & Soil Sciences	Kentucky Soybean Promotion Board	Genetic Control of Nitrogen Fixation Efficiency in Soybeans	\$50,000
Ren, Wei	RCTF-1-Plant Sciences-Agronomy	KY Science and Technology Co Inc	KSEF RDE: Towards an Environment-Friendly Agricultural Management Framework: Integrating Remote Sensing Andagro-System Modeling to Assess Water Budget and Water Quality in	\$47,567
Bewley, Jeffrey	Animal and Food Sciences	NV Nederlandsche Apparatenfabriek	Validation of Nedap Feeding and Rumination Time Monitors	\$15,000
Pescatore, Anthony	Animal and Food Sciences	Agricultural Research Service	One-two Punch for Organic Poultry Processing: Knocking Out Foodborne Pathogens with Plant Derived Antimicrobials and Farmer Training	\$14,807
Pescatore, Anthony	Animal and Food Sciences	US Poultry and Egg Association	Use of Photo-catalytic Oxidation to Reduce Ammonia Levels in Broiler Houses	\$78,200

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Pescatore, Anthony	Animal and Food Sciences	National Institute of Food and Agriculture	Controlling Internal Parasites Inorganic Egg Production Hens	\$162,893
Lensing, Janet	Entomology	Animal and Plant Health Inspection Service	Apple Orchard Commodity Survey	\$17,000
Lensing, Janet	Entomology	Animal and Plant Health Inspection Service	Thousand Cankers Disease/Walnut Twig Beetle Survey	\$25,000
Lensing, Janet	Entomology	Animal and Plant Health Inspection Service	Forest Pest Outreach and Education	\$8,768
Lensing, Janet	Entomology	Animal and Plant Health Inspection Service	Phytophthora Ramorum Survey	\$20,000
Lensing, Janet	Entomology	Animal and Plant Health Inspection Service	Grape Commodity Survey	\$21,000
Rieske-Kinney, Lynne	Entomology	Animal and Plant Health Inspection Service	Healthy Trees - Healthy People	\$34,396
Villanueva, Raul	Entomology	Kentucky Soybean Promotion Board	Management of Stink Bugs in Soybeans: Does One Strategy Fit All Species?	\$41,693
White, Jennifer	Entomology	Iowa State University	Do bacterial symbionts play a role in insecticide resistance in a polyphagous aphid pest?	\$75,000
Zhou, Xuguo	Entomology	KY Science and Technology Co Inc	KSEF RDE: Royal succession: queen pheromone mediates policing behavior in a subterranean termite	\$50,000
Price, Steven	Forestry	KY Department of Fish and Wildlife	Occupancy and Abundance of the Streamside Salamander (Ambystoma Barbouri) in Relation to Land-use, Water Chemistry, and Flow Rate in Central Kentucky Streams	\$35,000
Downie, A	Horticulture	KY Science and Technology Co Inc	KSEF RDE: Dehydrin-Mediate Coalescence of Chemically-Induced Nanoemulsions of Fuel Dispersed in Bilge Water	\$42,843
Ingram, Dewayne	Horticulture	Kentucky Horticulture Council	KY Hort Council Grants VIII	\$510,600
Snyder, John	Horticulture	National Institute of Food and Agriculture	Organic Tomato Breeding for Arthropod Resistance With a Focus On Protected Cultivation	\$548,968
Williams, Mark	Horticulture	University of Nebraska	Sanitation Center of Excellence in Organic Food and Agriculture	\$48,722

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Bradley, Carl	Plant Pathology	Kentucky Soybean Promotion Board	Managing Frogeye Leaf Spot of Soybean with Foliar Fungicides and Resistant Varieties	\$22,750
Bradley, Carl	Plant Pathology	Kentucky Soybean Promotion Board	Race Survey of Phytophthora Sojae, Causal Agent of Phytophthora Root Rot of Soybean, in Kentucky	\$9,950
Bradley, Carl	Plant Pathology	KY Science and Technology Co Inc	KSEF RDE: Investigating the Overlap Between Induced Systemic Resistance and Systemicacquired Resistance in Soybean	\$49,957
Kachroo, Aardra	Plant Pathology	Kentucky Soybean Promotion Board	Simultaneous Manipulation of Amino Acid and Fatty Acid Pathways to Enhance Protein Levels and Pathogen Sesistance in Soybean	\$49,070
Kachroo, Pradeep	Plant Pathology	Kentucky Soybean Promotion Board	Use of Plant Growth-Promoting Microbes for Improved Soybean Yield and Stress Tolerance	\$49,070
Kachroo,	Plant Pathology	KY Science and Technology Co Inc	KSEF RDE: Pipecolic Acid-Mediated Defense Signaling in Plants	\$50,000
Vincelli, Paul	Plant Pathology	University of Georgia	2017 SSARE MSP and Program Assistant	\$44,444
Nagy, Peter	Plant Pathology - RCTF	KY Science and Technology Co Inc	KSEF RDE: Development of Broad-Range Resistance Against Viruses Based on TPR-Domain Proteins	\$50,000
Jack, Anne	KY Tobacco Research & Dev Ctr	Council for Burley Tobacco	Sample Preparation for TSNA Analysis # 2017 Field Season	\$15,415
Jack, Anne	KY Tobacco Research & Dev Ctr	Council for Burley Tobacco	Evaluation of the Efficacy of HP400 in Reducing TSNAs # 2017 Field Season	\$8,042
Jack, Anne	KY Tobacco Research & Dev Ctr	Council for Burley Tobacco	The Effects of Cytokinin Application on the Accumulation of Tobacco-Specific Nitrosamines # 2017 Field Season	\$13,980
Jack, Anne	KY Tobacco Research & Dev Ctr	Council for Burley Tobacco	The Effects of Pre-Harvest Quercetin Application on the Accumulation of Tobacco-Specific Nitrosamines # 2017 Field Season	\$13,980
Perry, James	KY Tobacco Research & Dev Ctr	Council for Burley Tobacco	Varieties and Production Practices to Maximize Nicotine to be Utilized in Emerging Tobacco Products # 2017 Season	\$17,378
Yuan, Ling	KY Tobacco Research & Dev Ctr	Council for Burley Tobacco	Controlling tobacco whitefly	\$25,744