

**Agriculture
December 2015
Proposal Submissions**

Principal Investigator	Department	Sponsor	Title	Total Amount Requested
Abbott, Albert	Forestry	National Institute of Food and Agriculture	Rapid Cycle Breedomics: A next generation approach to sustaining and improving fruit and nut tree crops.	\$5,000,000
Bennett, Allen	Assoc Dean Research/Director AES	KY Governor's Office of Agricultural Policy	University of Kentucky Grains Center of Excellence	\$17,000,000
Bradley, Carl A.	Plant Pathology	North Carolina State University	iPIPE: Corn Component	\$77,227
Conrad, Anna	Forestry	American Chestnut Foundation	Evaluating chemical fingerprinting as a tool to rapidly screen hybrid chestnut for disease resistance	\$0
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	\$29,865
Davis, Alison	Agr Economics	Retirement Research Foundation	A County-Level Assesment to Analyze the Effect of Rural Hospital Closure on the Aging Population	\$77,300
Davis, Alison	Agr Economics	KY Department of Local Government	Youth Engagement and Leadership Program for SOAR	\$94,222
Dvorak, Joseph	Biosystems & Ag Eng	KY Science and Technology Co Inc	KSEF RDE: Efficient Routing with Multiple Vehicles for Agricultural Area Coverage Tasks	\$30,000
Edwards, Dwayne	Biosystems & Ag Eng	KY Science and Technology Co Inc	KSEF RDE: Kentucky Water Resources Availability in Changing Climate: Leaning Forward	\$29,835
Fox, Charles	Entomology	Iowa State University	Integrating IPM into IRM theory for improved resistance management and pest suppression	\$120,000
Goodin, Michael	Plant Pathology	KY Science and Technology Co Inc	KSEF RDE: Next Generation Protein Expression Vectors Derived From Coffee Ringspot Virus	\$29,700
Gumbert, Amanda	Agr Programs	University of Wisconsin	Building Capacity for Watershed Leadership and Management in Twelve Mississippi River Basin States	\$37,520
Haynes, Kenneth	Entomology	KY Science and Technology Co Inc	KSEF RDE: Royal succession: queen pheromone mediates policing behavior in a subterranean termite	\$30,000
Hennig, B.	Animal and Food Sciences	National Institute of Environmental Health Sciences	2016 Princess Chulabhorn International Science Congress	\$24,250

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Higgins, Stephens	Biosystems & Ag Eng	KY Energy and Environment Cabinet	Ag Bootcamp	\$42,364
Hildebrand, David	Plant & Soil Sciences	Council for Burley Tobacco	New High Value Lubricant Products For Tobacco/Nicotiana Hybrid Growers	\$27,161
Hildebrand, David	Plant & Soil Sciences	Kentucky Small Grain Growers Association	Improved Chia Production & Product Usage	\$23,903
Hu, Wuyang	Agr Economics	Clemson University	Market Analysis of Current and New Peanut Product Characteristics	\$8,723
Kachroo, Aardra	Plant Pathology	KY Science and Technology Co Inc	KSEF RDE: Characterizing Soybean Glycerolipid Activities Inmicrobial Defense and Lipid Synthesis	\$29,999
Kachroo, Pradeep	Plant Pathology	KY Science and Technology Co Inc	KSEF RDE: Role of Light Perception in Systemic Immunity	\$30,000
Lensing, Janet	Entomology	Animal and Plant Health Inspection Service	CAPS 2016 - Forest Pests Survey	\$101,460
Lensing, Janet	Entomology	Animal and Plant Health Inspection Service	CAPS 2016 - Nursery Survey	\$101,460
MacLeod, James	Veterinary Science	American College of Veterinary Surgeons	Comparative Chondrogenic Potential of Equine Fetal Progenitor Cells and Adult Mesenchymal Stem Cells	\$0
Obrycki, John	Entomology	KY Science and Technology Co Inc	KSEF RDE: Comparative genetic analysis of two species of predatory lady beetles using next-gen sequencing	\$29,895
Perry, sharyn	RCTF-1-Plant Sciences-Agronomy	KY Science and Technology Co Inc	KSEF RDE: Investigation of Regulatory Networks to Enhance Plant Regeneration by Somatic Embryogenesis	\$30,000
Pescatore, Anthony	Animal and Food Sciences	Alltech Biotechnology Inc	Student Sponsorship--Woods	\$47,800
Rieske-Kinney, Lynne	Entomology	Northern Nut Growers Association	Do blossom end rot fungus and Asian chestnut gall wasp interact on chestnut	\$6,700
Rittschof, clare	Entomology	KY Science and Technology Co Inc	KSEF RDE: Identifying Mechanisms of Resilience to Health Stressors in the Honey Bee (Apis mellifera)	\$29,863
Sama, Michael	Biosystems & Ag Eng	KY Science and Technology Co Inc	KSEF RDE: Identifying Water Stress in Agricultural Row-Crop Production using Narrow-Band Multispectral Remote Sensing	\$30,000

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Teets, Nicholas	Entomology	KY Science and Technology Co Inc	KSEF RDE: Calcium-dependent Signaling Mechanisms Governing Rapid Cold Hardening in Insects	\$30,000
Vail, Ann	Community & Leadership Devel	KY Cabinet for Health and Family Services	UK Supplemental Nutrition Education Program 2016	\$139,390
White, Jennifer	Entomology	KY Science and Technology Co Inc	KSEF RDE: Developing a spider model system for understanding interactions among endosymbionts	\$30,000
Zhou, Xuguo	Entomology	KY Science and Technology Co Inc	KSEF RDE: Transcriptomic dissection of worker-reproductive caste differentiation in termites	\$30,000
Zhu, Hongyan	Plant & Soil Sciences	KY Science and Technology Co Inc	KSEF RDE: Genetic Regulation of Nodulation Specificity in Medicago Truncatula	\$30,000