

**Agriculture  
March 2012  
Proposal Submissions**

<b>Principal Investigator</b>	<b>Department</b>	<b>Sponsor</b>	<b>Title</b>	<b>Total Amount Requested</b>
Ashurst, Kerri	Family & Consumer Sciences	Kansas State University	Kentucky Enhancing Father Engagement with the US Air Force	\$292,500
Balasuriya, Udeni	Veterinary Science	National Institute of Food and Agriculture	Identification of genetic factors responsible for establishment of equine arteritis virus carrier state in stallions.	\$2,925,456
Balasuriya, Udeni	Veterinary Science	Kansas State University	detection & differentiation of equine alphaviruses associated with equine encephalitides using multiplex real-time RT-PCR assays.	\$45,000
Batte, Marvin	Agr Economics	Agricultural Marketing Service	Blueberry Product Development for Local Markets	\$69,230
Bewley, Jeffrey	Animal and Food Sciences	KY Governor's Office of Agricultural Policy	Compost Bedded Pack Dairy Barn Management	\$110,375
Bewley, Jeffrey	Animal and Food Sciences	KY Science and Technology Co Inc	Automation of Dairy Cattle Body Condition Scoring through Image Processing	\$49,872
Bewley, Jeffrey	Animal and Food Sciences	American Jersey Cattle Association	Characterization of Breed Differences in Core Body Temperature, Lying Behavior, Rumination Behavior, and Quarter-Level Milk Conductivity	\$7,992
Chappell, Joseph	Plant & Soil Sciences	Pennsylvania State University	Algae as a sustainable biochemicals production platform	\$628,995
Colliver, Donald	Biosystems & Ag Eng	Ky Highlands Investment Corporation	Energy and Cost Optimization of House Construction by KY Houseboat Industry (DEDI-TVA Mitigation)	\$30,047
Coolong, timothy	Horticulture	KY Department of Agriculture	Specialty Crop: The Vegetable Academy: A Short Course to Advance Vegetable Production in Kentucky	\$13,362
DeBolt, Seth	Horticulture	Carnegie Institution of Washington	Synthetic Biology: a modular approach to probe cell wall synthesis by combination with live cell optical assays	\$526,043
Farman, Mark	Plant Pathology	Kansas State University	Novel Strategies for Managing Blast Diseases on Rice and Wheat	\$295,181
Fehr, Robert	Biosystems & Ag Eng	KY Energy and Environment Cabinet	Kentucky Cooperative Extension Service Energy Efficiency Awareness and Action	\$200,705
Fisher, Colin	Plant & Soil Sciences	Burley Tobacco Growers Cooperative Association Inc	Introducing the Pale Yellow Gene into Increased Chlorophyll Burley	\$8,000
Grove, John	Plant & Soil Sciences	KY Soybean Promotion Board	Raising Soybean Yield Potential in Dry Seasons: Increased Rooting Depth and Greater Soil Water Extraction with Deeper Depth to the Fragipan	\$105,000
Harmon, David	Animal and Food Sciences	Alltech Biotechnology Inc	Effects of basal diet, DIP source and level on the growth performance of feedlot cattle	\$15,308

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Harper, Carl	Entomology	Slow the Spread Foundation	Monitor Gypsy Moth Populations for Slow the Spread Program	\$41,000
Harwood, James	Entomology	US Department of Agriculture	Natural enemy-pest synchrony: multidimensional approach to determining biological control solutions for organic cucurbit production	\$1,040,367
Hennig, Bernhard	Animal and Food Sciences	Elsevier Science Inc	Editor of the Journal of Nutritional Sciences	\$250,063
Ingram, Dewayne	Horticulture	KY Department of Agriculture	Specialty Crop: Sustainable Ground Cover Production for More Sustainable Kentucky Landscapes	\$10,780
Kachroo, Aardra	Plant Pathology	National Science Foundation	Metabolic analyses of soybean glycerolipid activities and roles in microbial defense and oil production	\$2,134,991
Lee, Chad	Plant & Soil Sciences	KY Soybean Promotion Board	Soybean Management Verification Program: 2012	\$82,833
Lee, Min-Young	Merchandising, Apparel & Textiles	International Textile and Apparel Association	Ethical Consumerism: The role of previous experience, product features, and perceived benefits in Fair-Trade apparel shopping	\$1,500
Lensing, Janet	Entomology	Animal and Plant Health Inspection Service	Gypsy Moth Survey	\$90,288
Lhotka, Laura	Forestry	University of Tennessee	A Comprehensive Recruitment and Retention Assessment System for Forest Resource Programs	\$122,644
Martin, James	Plant & Soil Sciences	KY Soybean Promotion Board	Survey of herbicide resistant Palmer amaranth and waterhemp	\$83,991
Ritchey, Edwin	Plant & Soil Sciences	KY Corn Growers Association	An Integrated Approach to Understand the Agronomic Responses to Poultry Litter Use and Soybean and Corn Production Systems	\$35,000
Ritchey, Edwin	Plant & Soil Sciences	KY Soybean Promotion Board	Understanding Components to High Yielding Soybean Production Systems	\$60,000
Ritchey, Edwin	Plant & Soil Sciences	KY Soybean Promotion Board	The Ripper Challenge: Is compaction really reducing soybean and corn yields?	\$73,822
Smith, Samuel Ray	Plant & Soil Sciences	University of Tennessee	Development of research-based organic forage production recommendations for the southeastern U.S.	\$360,951
Stephenson, Laura	Family & Consumer Sciences	KY Department of Agriculture	Specialty Crop: Plate It Up Kentucky Proud Recipe Development for Consumers with Nutrition Research Component	\$50,000
Stringer, Jeffrey	Forestry	KY Energy and Environment Cabinet	Kentucky Woodlands Magazine - Whats up with our oaks? - Issue	\$16,000

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Tanaka, Keiko	Community & Leadership Devel	National Institute of Food and Agriculture	Creating a Better STEAgM Student in Kentucky	\$27,122
Vincelli, Paul	Plant Pathology	Mississippi State University	Climate Literacy Partnership in the Southeast (CLiPSE), subcontr	\$125,000
Wilson, patsy	Horticulture	KY Department of Agriculture	Specialty Crop: Sustainable Nitrogen Practices in Kentucky Vineyards	\$52,000
Witt, William	Plant & Soil Sciences	KY Transportation Cabinet	Management of Troublesome Weeds in Highway Rights of Way	\$111,493
Woods, Timothy	Agr Economics	University of Arkansas	Grape and Winery Contracting and supply Chain Management	\$44,132
Wright, Shawn	Horticulture	KY Department of Agriculture	Specialty Crop: Rhubarb: An Early Crop for Market Gardeners	\$9,204
Wright, Shawn	Horticulture	KY Department of Agriculture	Specialty Crop: Annual Plasticulture Strawberry Production	\$35,642
Zhu, Hongyan	Plant & Soil Sciences	National Science Foundation	Exploring genomic signatures of efficient nitrogen fixation in the legume-rhizobia symbiosis	\$807,831