

**Agriculture
July 2016
Proposal Submissions**

Principal Investigator	Department	Sponsor	Title	Total Amount Requested
Adams, Amanda	Veterinary Science	Morris Animal Foundation	Understanding Seasonal Influences on Inflammation and Insulin Dysregulation Using an Oral Sugar Test in Horses with Endocrine Disorders	\$200,767
Adams, Amanda	Veterinary Science	National Institute of Food and Agriculture	A Prospective Study Evaluating the Seasonal Inflammatory Responses to a Metabolic Challenge and the Risk for the Development of Endocrinopathy-Associated Laminitis	\$497,988
Adedeji, Akinbode	Biosystems & Ag Eng	National Institute of Food and Agriculture	Nondestructive Classification of Codling Moth Infested Apples Using Hyperspectral Imaging and Acoustic Emission Techniques	\$397,019
Barton, Christopher	Forestry	Department of the Interior	Healthy Food, Healthy Environment and New Opportunities for Coal Mine Impacted Lands and Communities in Eastern Kentucky	\$4,057,663
Bessin, Ricardo	Entomology	Syngenta Crop Protection	Seed treatment evaluation, 2016	\$22,000
Bradley, Carl	Plant Pathology	Kentucky Small Grain Growers Association	Improving Fungicide Application Recommendations for Managing Fusarium Head Blight of Wheat and Barley	\$14,130
Bruening, William	Plant & Soil Sciences	Kentucky Small Grain Growers Association	Performance of Small Grain Varieties in Kentucky	\$12,133
Chambers, Thomas	Veterinary Science	National Institute of Food and Agriculture	Equine Interferon-lambda	\$499,857
Davis, Allison	Agr Economics	Rural Development	RCDI: Creating A Thriving Small Business Community in Southeast Kentucky	\$155,617
Denham, Melony	Community & Leadership Development	Appalachian Regional Commission	E-Discovery: Expanding Youth Entrepreneurship in Coal Dependent Counties	\$1,997,352
Dvorak, Joseph	Biosystems & Ag Eng	National Institute of Food and Agriculture	Mapping Yield and Quality in Forage Crops Using Unmanned Platforms	\$500,000
Gustafson, Alison	Dietetics and Human Nutrition	East Carolina University	Examining the Impact of Online Shopping and Healthy Primes to Reduce Unhealthy Impulse Purchases Among Low-Income Caregivers	\$25,871

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Hildebrand, David	Plant & Soil Sciences	Kentucky Small Grain Growers Associatio	Enhanced Chia Production & Product Usage	\$25,445
Jackson, Joshua	Biosystems & Ag Eng	National Institute of Food and Agricultur	Precision Cattle Management Using Near Field Communications (NFC) and Apps	\$299,604
Lee, Chad	Plant & Soil Sciences	Kentucky Small Grain Growers Associatio	Updating Rye and Barley Management Guidelines for Kentucky	\$12,000
Moe, Luke	Plant & Soil Sciences	National Institute of Health	Understanding the Roles of Leaf-Associated Bacteria in Carcinogenic Nitrosamine Formation During Tobacco Manufacturing	\$210,000
Montross, Michael	Biosystems & Ag Eng	US Department of Agriculture	On-farm Pretreatment of Biomass in a High Solids Environment	\$500,000
Murdock, Lloyd	Plant & Soil Sciences	Kentucky Small Grain Growers Associatio	Fragipan Remedation	\$15,000
Nielsen, Martin	Veterinary Science	MEP Equine Solutions LLC	Fluorescence-Based Diagnostic Imaging Modalities	\$40,954
Nielsen, Martin	Veterinary Science	Zoetis LLC	Smartphone egg count validation study	\$30,475
Nielsen, Martin	Veterinary Science	Morris Animal Foundation	Equine parasite lipidomics – searching for determinants of Parascaris spp. infection	\$10,512
Palli, Subba	Entomology	National Institute of Health	RNAi Methods for Zika Virus Vector Control	\$385,000
Perry, Sharyn	RCTF-1-Plant Sciences-Agronom	National Science Foundation	Mechanisms of gene regulation by the plant MADS-domain transcription factor AGL15 and developmental outcomes.	\$732,455
Potter, Daniel	Entomology	Rutgers University	Assessing Bee Attractiveness of Woody Landscape Plants and Mitigating Potential Bee Hazard from Neonicotinoid Insecticides	\$282,140
Price, Steven	Forestry	National Fish and Wildlife Foundation	Development and Implementation of Decision Support Tools for Assessing Stream Health using Freshwater Mussels as Bioindicators (Cumberland River Basin, KY)	\$98,363

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Ritchey, Edwin	Plant & Soil Sciences	Kentucky Small Grain Growers Association	The Creation of a Wheat Field School at UKREC	\$33,776
Rittschof, Clare	Entomology	National Institute of Food and Agriculture	Improving Honey Bee Health Resilience Through Early-Life Interventions	\$499,586
Shockley, Jordan	Agr Economics	Mississippi State University	Quantifying the Agronomic, Economic, and Environmental Benefits of Cover Crops in Mid-South Production Systems	\$121,005
Shockley, Jordan	Agr Economics	Kentucky Corn Growers Association	Determining the Economic Value of Poultry Litter for Kentucky Corn Producers	\$18,469
Slack, Charles	Plant & Soil Sciences	Monsanto Co	Mon Corn	\$6,300
Stombaugh, Timothy	Biosystems & Ag Eng	National Institute of Food and Agriculture	Improving the Accuracy of Chemical Applications with Direct Injection	\$497,979
Suman, Surendranath	Animal and Food Sciences	Mississippi State University	Muscle Proteomic Approach to Characterize Biochemical Mechanisms Responsible for Woody Breast and Pale, Soft, and Exudative Conditions in Broilers	\$108,000
Tyler, Quentin	Agr Economics	KY Council on Postsecondary Education	Governors Minority Student College Preparation Program	\$51,640
Unrine, Jason	Plant & Soil Sciences	National Institute of Food and Agriculture	Development of nanoparticulate biomaterials as delivery systems to enable environmentally friendly RNAi-based control of lepidopteran insect pests	\$499,999
Van Sanford, David	Plant & Soil Sciences	Agricultural Research Service	U.S. Wheat and Barley Scab Initiative's Networking and Facilitation Office and Website	\$347,060
Van Sanford, David	Plant & Soil Sciences	Kentucky Small Grain Growers Association	Understanding the Genetic Basis of Wheat Development	\$4,500
Villanueva, Raul	Entomology	Kentucky Small Grain Growers Association	Looking for Old and New Foes to Prevent BYDV Transmission on Wheat	\$13,022
Vincent, Stacy	Community & Leadership Development	KY Department of Education	Incorporating the Science into Veterinary and Small Animal Science	\$3,000

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Webb, Bruce	Entomology	National Institute of Food and Agriculture	Pest Suppression and Resistance Management with Sexually Transmitted Viruses	\$500,000
Wendroth, Ole	Plant & Soil Sciences	Kentucky Small Grain Growers Association	Year3: Irrigating the Soil to Maximize the Crop # An Approach for Wheat to Efficient and Environmentally Sustainable Irrigation Water Management in Kentucky	\$40,132
Wendroth, Ole	Plant & Soil Sciences	Kentucky Corn Growers Association	Irrigating the Soil to Maximize the Crop - An Approach for Corn to Efficient and Environmentally Sustainable Irrigation Water Management in Kentucky	\$80,263