

**Agriculture
September 2015
Proposal Submissions**

Principal Investigator	Department	Sponsor	Title	Total Amount Requested
Hanley, Carol	International Programs	KY Council on Postsecondary Education	Energy is Elementary	\$149,962
Hanley, Carol	International Programs	KY Council on Postsecondary Education	STEM PRIDE Year 2 Funding	\$149,864
Bennett, Allen	Assoc Dean Research/Director AES	Agricultural Research Service	2015-16 Acquisition of Goods & Services for the USDA Offices in Ag North	\$0
Davis, Alison	Agr Economics	New York Community Trust	Appalachian Health Career Scholarships	\$70,000
Davis, Alison	Agr Economics	Pennsylvania State University	Kentucky Local Foods Resource Mapping	\$0
Davis, Alison	Agr Economics	Rural Development	Business Retention, Youth Leadership, and Economic Modeling	\$188,867
Davis, Alison	Agr Economics	Appalachian Regional Commission	Youth Entrepreneurship and Leadership Program	\$179,750
Mark, Tyler	Agr Economics	University of Tennessee	Integrated behavior monitoring system for early disease detection	\$73,744
Mark, Tyler	Agr Economics	Kansas State University	Could Satellite Internet be the Next Frontier for Real-Time Data Transfer and Big Data Adoption in Production Agriculture?	\$21,000
Meyer, Alphonse	Agr Economics	Kentucky Center for Agriculture and Rural Development	The Power of Food: Local Food Supply Chain Development in Eastern Kentucky	\$65,000
Adedeji, Akinbode	Biosystems & Ag Eng	Kentucky Small Grain Growers Association	Fundamental Understanding of Millet Functionality as Ingredient in Human Food Applications and Biofuel Production	\$25,500
Adedeji, Akinbode	Biosystems & Ag Eng	National Institute of Food and Agriculture	Hyperspectral Imaging and Spectroscopic Systems to Detect Adulteration in Processed Meats	\$100,000
Higgins, Stephens	Biosystems & Ag Eng	Natural Resources Conservation Service	Pollinator Habitat Installations	\$2,500
Sama, Michael	Biosystems & Ag Eng	Kentucky Small Grain Growers Association	Cover Crop Seeding Using an Unmanned Aerial System (UAS)	\$12,500

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Bruening, William	Plant & Soil Sciences	Kentucky Small Grain Growers Association	Performance of Small Grain Varieties in Kentucky	\$20,000
Haramoto, Erin	Plant & Soil Sciences	Kentucky Small Grain Growers Association	Winter Cover Crops for Weed Management	\$12,091
Knott, Carrie	Plant & Soil Sciences	Kentucky Small Grain Growers Association	Can wheat yield and grain fill duration be increased by decreasing wheat canopy temperature	\$0
Lee, Chad	Plant & Soil Sciences	Kentucky Small Grain Growers Association	Rye and Barley Management Study	\$5,000
Murdock, Lloyd	Plant & Soil Sciences	Kentucky Corn Growers Association	Corn Fragipan	\$25,000
Murdock, Lloyd	Plant & Soil Sciences	Kentucky Small Grain Growers Association	Fragipan Remediation small grains	\$25,000
Ritchey, Edwin	Plant & Soil Sciences	Kentucky Small Grain Growers Association	Planning/Evaluation for UK-REC Wheat Field School	\$5,735
Ritchey, Edwin	Plant & Soil Sciences	Kentucky Small Grain Growers Association	Support of Conservation Innovation Grant (CIG) to Improve Kentucky Grain Production Systems Using Cover Crops and Other Soil Health Practices.	\$20,000
Slack, Charles	Plant & Soil Sciences	Monsanto Co	Monsanto SO'20	\$2,100
Slack, Charles	Plant & Soil Sciences	Monsanto Co	Mon 24-01-SO'19	\$7,000
Smith, Samuel	Plant & Soil Sciences	University of Tennessee	Enhancing Grassland Ecosystem Sustainability in the Tall Fescue-Belt: a Partnership for Innovation	\$900,164
Smith, Samuel	Plant & Soil Sciences	Natural Resources Conservation Service	Eliminating Overgrazing and Soil Degradation on Horse Farms in Kentucky	\$256,914
Unrine, Jason	Plant & Soil Sciences	US Israel Binational Agriculture and Research Fund	Fate and Effects of Nanoparticles in Soil	\$19,920
Unrine, Jason	Plant & Soil Sciences	University of Chicago	Synchrotron X-ray microprobe and microspectroscopy research in low temperature geochemistry	\$158,621
Van Sanford, David	Plant & Soil Sciences	Kentucky Small Grain Growers Association	Soft Red Winter Wheat Breeding and Variety Development for Kentucky	\$55,500

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September 2015
Proposal Submissions**

Van Sanford, David	Plant & Soil Sciences	Kentucky Small Grain Growers Association	Genomic Selection in Soft Red Winter Wheat	\$10,000
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
Wendroth, Ole	Plant & Soil Sciences	Kentucky Soybean Promotion Board	Irrigating the Soil to Maximize the Crop - An Approach for Soybean	\$40,131
Wendroth, Ole	Plant & Soil Sciences	Kentucky Small Grain Growers Association	Irrigating the Soil to Maximize the Crop # An Approach for wheat to Efficient and Environmentally Sustainable Irrigation Water Management in Kentucky	\$160,526
Adedokun, Sunday	Animal and Food Sciences	DuPont	Enzyme effects on fibrous feed ingredients in cannulated pigs	\$65,000
Adedokun, Sunday	Animal and Food Sciences	AB Vista	Sodium and mineral metabolism in broilers	\$68,045
Bewley, Jeffrey	Animal and Food Sciences	Amelgo LLC	SBIR: Diphenhydramine leads to dry-off acceleration and mastitis prevention	\$55,647
Bewley, Jeffrey	Animal and Food Sciences	GEA Farm Technologies Incorporated	A Novel Footbath Delivery System	\$13,645
Lawrence, Laurie	Animal and Food Sciences	Waltham Centre for Pet Nutrition	Factors influencing phosphorus excretion	\$19,800
Lawrence, Laurie	Animal and Food Sciences	Probiotech International Incorporated	In vitro evaluation of an equine feed additive	\$9,591
Lindemann, Merlin	Animal and Food Sciences	Fats and Proteins Research Foundation Incorporated	Effect of different fat sources on immunocompetence, carcass characteristics, and meat quality of pigs grown to heavy slaughter weight	\$199,337
Pescatore, Anthony	Animal and Food Sciences	Alltech Biotechnology Inc	Post Doctoral Fellow -- Lizza Macalintal	\$116,425
Dobson, Stephen	Entomology	University of Florida	2015 IR-4 Biopesticide Project	\$25,500
Harwood, James	Entomology	US Israel Binational Agriculture and Research Fund	Biological control of green cicadas in vineyards: a molecular-ecological food web approach	\$173,495
Haynes, Kenneth	Entomology	Department of Housing and Urban Development	Development of next generation methods for bed bug control	\$630,000

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Potter, Daniel	Entomology	University of Florida	Scale efficacy in container:15-006	\$10,000
Rieske-Kinney, Lynne	Entomology	Forest Service	Development of RNAi in Woody Plants for Broad Scale Management of Tree Pests	\$92,000
Baker, Terrell	Forestry	National Institute of Food and Agriculture	Designing a revised McIntire-Stennis Strategic Plan	\$30,000
Price, Steven	Forestry	National Geographic Society	Evaluating the Impact of Snake Fungal Disease on Wild Snake Populations	\$15,000
Fountain, William	Horticulture	KY Energy and Environment Cabinet	Best Management Practices for a Sustainable Urban Forest	\$35,000
Geneve, Roert	Horticulture	Horticultural Research Institute	Optimizing Plant Growth and Water Use by Modifying Cyclic Irrigation Timing in Container Nursery Production	\$15,000
Houtz, Robert	Horticulture	National Institute of Health	Exploring the Significance of Post Translational Methylation of Calmodulin	\$1,729,000
Bradley, Carl	Plant Pathology	United Soybean Board	Compile Estimates of Soybean Yield Suppression by Diseases in the U.S. During 2015	\$17,000
Bradley, Carl	Plant Pathology	Agricultural Research Service	Applied management of Fusarium head blight in Kentucky	\$53,787
Bradley, Carl	Plant Pathology	Kentucky Small Grain Growers Association	Research and outreach for fungicide management of Fusarium head blight or small grain crops	\$0
Bradley, Carl	Plant Pathology	Iowa State University	Transgenic approaches in managing sudden death syndrome	\$49,000
Goodin, Michael	Plant Pathology	ParaTechs Corp	STTR: pCOFFEE: Coffee ringspot virus-derived enhanced expression vectors	\$45,000
Goodin, Michael	Plant Pathology	Takeda Pharmaceuticals North America Inc	Characterization of the Sf9-rhabdovirus in plants	\$86,633
Nagy, Peter	RCTF-1-Plant Sciences-PlantPath	National Science Foundation	The Role of Host Factors in the Emergence of Interviral Recombinants	\$866,413
Denham, Melony	Community & Leadership Devel	Economic Development Administration	E-Discovery Challenges You! Entrepreneurial Initiative	\$877,952

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September 2015
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Epps, Rebekah	Community & Leadership Devel	KY Education and Workforce Development Cabinet	University of Kentucky Professional Development Perkins Leadership Project 2015-2016	\$6,000
Vincent, Stacy	Community & Leadership Devel	KY Education and Workforce Development Cabinet	University of Kentucky Professional Development Perkins Leadership Project 2015-2016	\$6,000
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.	\$257,065
Bailey, Ernest	Veterinary Science	Morris Animal Foundation	Identifying genetic variants on ECA20 associated with juvenile-onset lordosis in horses	\$48,655
Ball, Barry	Veterinary Science	KY Horse Racing Commission	Sex-hormone-binding Globulin: a Biomarker for Anabolic Abuse	\$195,474
Chambers, thomas	Veterinary Science	Zoetis LLC	Determination of amino acids at loci 78 and 159 of up to 50 equine flu isolates collected from 2010 - 2015	\$15,784
Esteller Vico, Alejandro	Veterinary Science	Grayson Foundation Inc	Endocrine Markers of Steroid-anabolic Abuse in the Horse	\$134,760
Horohov, David	Veterinary Science	Grayson Jockey Club Research Foundation Inc	IgG(T) Antibodies Identify Foals at Risk for R Equi	\$62,407
Lear, Teri	Veterinary Science	Morris Animal Foundation	Identifying Causes of 64,XX testicular Disorders of Sex Development	\$9,083
MacLeod, James	Veterinary Science	Morris Animal Foundation	Developmental Progenitor Cells of Articular Cartilage	\$122,627
Koo, Jayoung	Landscape Architecture	National Endowment for the Arts	To Support Creative Narratives of Kentucky's Bioregions: Engaging Communities in the Art of Placemaking	\$84,477
Carter, Craig	Veterinary Diagnostic Laboratory	KY Department of Agriculture	Avian Influenza Surveillance	\$11,687
Vail, Ann	Family & Consumer Sciences	KY Cabinet for Health and Family Services	UK Supplemental Nutrition Education Program 2015t	\$13,235,536
Wood, Craig	e-Extension	Michigan State University	Innovation and Professional Growth for Cooperative Extension	\$445,151
Gumbert, Amanda	Agr Programs	KY Energy and Environment Cabinet	Nutrient Management Planner	\$75,000

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Gustafson, Alison	Dietetics and Human Nutrition	Duke University	SNAP households food shopping choices using Behavioral Economic Choices	\$49,952
Stephenson, Tammy	Dietetics and Human Nutrition	National Institute of Food and Agriculture	Multicultural Scholars Program in Human Nutrition and Hunger Studies at the University of Kentucky	\$200,000
Swanson, Jason	Merchandising, Apparel & Textiles	Lexington Convention and Visitor Bureau	VisitLEX	\$24,520
Vail, Ann	School of Human Envir Sciences - Admin	US Department of Agriculture	Child Poverty Nutrition Center	\$2,500,000
Chambers, Orlando	Kentucky Tobacco Research & Dev Ctr	Food and Drug Administration	Smokeless Tobacco Reference Product Development, Distribution and Research	\$7,394,400
Yuan, Ling	Kentucky Tobacco Research & Dev Ctr	Naprogenix	SBIR Phase I: Optimization of medicinal plant species for bioactivity at specific molecular targets	\$95,232