

**Agriculture
2016
Proposal Submissions**

Principal Investigator	Department	Sponsor	Title	Total Amount Requested
Meyer, Alphonse	Agr Economics	University of Georgia	So SARE Land Grant Univ. Coordinator/Liaison	\$28,334
Dvorak, Joseph	Biosystems & Ag Eng	KY State University	Sustainable Aquaculture: Education, Research and Outreach for Small Farms	\$121,107
Nokes, Sue	Biosystems & Ag Eng	National Science Foundation	INFEWS/13 Addressing the Animal Protein Paradox: Secure and Sustainable Food Production Through a Systems Approach to Plant-Derived Antimicrobial Design	\$3,000,000
Sama, Michael	Biosystems & Ag Eng	Foundation for Food and Agriculture Research	Optimizing Agricultural Water Use Efficiency using Unmanned Aerial Systems	\$300,000
Shi, Jian	Biosystems & Ag Eng	US Department of Agriculture	Lignin Extraction, Depolymerization and Upgrading in Aqueous Ionic Liquids	\$150,000
Hildebrand, David	Plant & Soil Sciences	Ashland Specialty Chemical Co	Optimization of cyclopropanation of renewable oils with novel functionality	\$42,000
Hildebrand, David	Plant & Soil Sciences	United Soybean Board	Development of High w-3 Soybeans for Enhanced Aquaculture	\$86,035
Unrine, Jason	Plant & Soil Sciences	Duke University	Evaluation of Novel Nano-agrochemicals: Multiscale Analysis and Data Integration Methods for Forecasting Impacts on the Food Energy Water Nexus	\$299,531
Van Sanford, David	Plant & Soil Sciences	Agricultural Research Service	U.S. Wheat and Barley Scab Initiative's Networking and Facilitation Office and Website.	\$158,879
Ren, Wei	RCTF-1-Plant Sciences-Agronomy	Indiana University	A Quantitative Evaluation of Agricultural vulnerability to Climate Change - Combining Data Synthesis, Economic Analyses and Process-based Modeling	\$241,790
Ren, Wei	RCTF-1-Plant Sciences-Agronomy	National Science Foundation	MSB-ECA: Agroecosystem Crisis Due to Emerging Multi-Air Pollution and Its Interaction with Climate and Land Use in China: Local Response to Subcontinental Risk	\$290,056
Amaral-Phillips, Conna	Animal and Food Sciences	University of Missouri	Improving Fertility of Dairy Cattle Using Translational Genomics	\$11,231
Amaral-Phillips, Conna	Animal and Food Sciences	Colorado State University	Genomic Selection for Improved Fertility of Dairy Cows with Emphasis on Cyclicity and Pregnancy	\$43,329
Bewley, Jeffrey	Animal and Food Sciences	DairyMaster	DairyMaster Technology Application	\$74,288

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Bewley, Jeffrey	Animal and Food Sciences	GEA Farm Technologies Incorporated	GEA Footbath Project	\$12,891
Bewley, Jeffrey	Animal and Food Sciences	GEA Farm Technologies Incorporated	GEA Teat Dip Project	\$12,891
Bewley, Jeffrey	Animal and Food Sciences	Amelgo LLC	SBIR: Fluoxetine ± diphenhydramine leads to tight junction opening and dry-off acceleration	\$32,134
Bewley, Jeffrey	Animal and Food Sciences	Cargill Research	Technologies for transition cow and heat stress management	\$74,288
Bewley, Jeffrey	Animal and Food Sciences	DeLaval International AB	DeLaval BCS and Herd Navigator	\$101,877
Pescatore, Anthony	Animal and Food Sciences	University of Connecticut	Practical and Environment-friendly Strategies for Improving Food Safety and Shelf-life of Organic Poultry Products	\$30,000
Vijayakumar, Paul Priyesh	Animal and Food Sciences	Oklahoma State University	FSMIA Simplified for Organic Production: A Multitraceted Approach for Small to Mid-sized Producers in the Southern and Northeastern Regions	\$170,000
Bessin, Ricardo	Entomology	North Carolina State University	Management of Brown Marmorated Stink Bug in US Specialty Crops	\$300,000
Harper, Carl	Entomology	Slow the Spread Foundation	Monitor Gypsy Moth Populations for Slow the Spread Program	\$44,000
Lensing, Janet	Entomology	Animal and Plant Health Inspection Service	Firewood Scout in Kentucky	\$8,231
Obrycki, John	Entomology	National Institute of Food and Agriculture	Developing ArgriScience Teachers	\$149,998
Rieske-Kinney, Lynne	Entomology	KY Division of Forestry	Urban Forestry Initiative with KY Communities	\$20,000
Rittschof, Clare	Entomology	Defense Advanced Research Projects Agency	Effects of Aggressive Personality on Collective Behaviors in the Honey Bee	\$499,322
Teets, Nicholas	Entomology	National Institute of Food and Agriculture	Improving the Efficacy of Sterile Insect Technique by Enhancing Male Performance with Targeted Overexpression of Antioxidant Defense Systems	\$85,481
Jacobsen, Krista	Horticulture	University of Minnesota	Developing a Multi-regional Research and Education Network to Improve Nutrient Management in Organic High Tunnels	\$1,364,343

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Saha, Shubin	Horticulture	Monsanto Co	Watermelon and Cantaloupe Variety Evaluation	\$1,680
Snyder, John	Horticulture	National Institute of Food and Agriculture	Organic Tomato Breeding For Arthropod Resistance with A Focus On Protected Cultivation	\$2,000,000
Williams, Mark	Horticulture	Organic Farming Research Foundation	2017 Organic Agriculture Research Symposium	\$2,000
Bradley, Carl	Plant Pathology	Agricultural Research Service	Applied Management of Fusarium Head Blight in Kentucky	\$22,436
Gauthier, Nicole	Plant Pathology	University of Georgia	Crop Profile for Kentucky Apple: Need for State-of-the-Industry Documents	\$3,260
Kachroo, Aardra	Plant Pathology	Rural Development Administration of Korea	Development of Validated Systems of Resistance to Pathogens on Sweet Potato	\$150,000
Kachroo, Aardra	Plant Pathology	United Soybean Board	Improving Soybean Content of Beneficial Fatty Acids as a Means to Generate Higher Quality Aquaculture Feed	\$115,053
Schardl, Christopher	Plant Pathology	National Science Foundation	Dimensions US-China: Collaborative Research: Phylogenetic Breadth, Genetic Diversity and Functions of Seed-transmitted Fungal Endophytes	\$838,786
Vincent, Stacy	Community & Leadership Devel	National Institute of Food and Agriculture	Developing Entrepreneurial Youth in Resource-Depleted Communities	\$148,122