

**Agriculture
January 2014
Proposal Submissions**

| Principal Investigator | Department | Sponsor | Title | Total Amount Requested |
|-------------------------------|----------------------------------|----------------------------------|--|-------------------------------|
| Adams, Amanda | Veterinary Science | Alltech Biotechnology Inc | Student Sponsorship by Alltech for Sarah Elzinga | \$15,455 |
| Adams, Amanda | Veterinary Science | Alltech Biotechnology Inc | Effect of omega-3 fatty acid [eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA)] supplementation on metabolic and inflammatory parameters of EMS horses | \$122,927 |
| Archbold, Douglas | Horticulture | KY Science and Technology Co Inc | Ribitol Metabolism and Its Role in Plants | \$30,000 |
| Boatright, William | Animal and Food Sciences | Kentucky Soybean Promotion Board | Reducing Free Radicals in Soybean Products Used for Human Foods | \$17,163 |
| Chambers, Thomas | Veterinary Science | KY Science and Technology Co Inc | Equine interferon-lambda | \$29,980 |
| Cox, John | Forestry | KY Science and Technology Co Inc | Bears Behaving Badly: Does Toxoplasmosis Infection Increase Neophilic Behavior? | \$29,999 |
| Cox, Nancy | Assoc Dean Research/Director AES | Agricultural Research Service | 2013-14 Acquisition of Goods & Services for the USDA Offices in Ag North--Lab & Field Work | \$7,050 |
| Cox, Nancy | Assoc Dean Research/Director AES | Agricultural Research Service | 2013-14 Acquisition of Goods & Services for the USDA Offices in Ag North--O&M | \$10,000 |
| D'Angelo, Elisa | RCTF-1-Plant Sciences-Agronomy | KY Science and Technology Co Inc | Remediation of Coal Slurry Impoundment Contaminants Using Multistage Wetland Treatment System | \$29,641 |
| Dvorak, Joseph | Biosystems & Ag Eng | National Science Foundation | NRI: Enabling robot and human worker collaboration in agricultural fields | \$275,590 |
| Farman, Mark | Plant Pathology | KY Science and Technology Co Inc | Exploring a Novel Mechanism for Pathogenic Adaptation in Fungi | \$30,000 |
| Fehr, Robert | Biosystems & Ag Eng | Environmental Protection Agency | EE for Cooperative Extension Service in Kentucky | \$75,000 |
| Fox, Charles | Entomology | KY Science and Technology Co Inc | Mechanisms of Transgenerational Effects on Offspring Phenotypes | \$30,000 |
| Harmon, David | Animal and Food Sciences | Alltech Biotechnology Inc | Student Sponsorship Agreement for Amanda Pesqueira | \$30,000 |

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| Harwood, James | Entomology | Kentucky Soybean Promotion Board | Impact of border vegetation on soybean pest abundance and movements | \$4,421 |
| Hildebrand, David | Plant & Soil Sciences | KY Science and Technology Co Inc | Economic Palmitoleic Resource Development for Human Health and Renewable Chemicals | \$29,406 |
| Hunt, Arthur | Plant & Soil Sciences | National Science Foundation | RET Supplement to NSF Award MCB-1243849 | \$12,144 |
| Hunt, Arthur | Plant & Soil Sciences | KY Science and Technology Co Inc | Posttranscriptional Control of Responses of Plants to Elevated Temperatures | \$29,997 |
| Kachroo, Aardra | Plant Pathology | Kentucky Soybean Promotion Board | Broadening host specificity in soybean-Rhizobia symbiosis | \$62,711 |
| Kachroo, Aardra | Plant Pathology | KY Science and Technology Co Inc | Illustrating a Role for Brassinosteroid Signaling in Plant-Virus Interactions | \$29,999 |
| Kachroo, Pradeep | Plant Pathology | National Science Foundation | REU: Molecular, genetic, and biochemical characterization of oleate-regulated defense geneexpression in plants | \$6,000 |
| Kachroo, Pradeep | Plant Pathology | National Science Foundation | REU: Glycerol Metabolism and its Role in Biotrophy Versus Necrotrophy in an Arabidopsis/Fungal Hemibiotroph Model system. | \$6,000 |
| Lee, Brad | Plant & Soil Sciences | Environmental Protection Agency | Taking Runoff by Storm: Stormwater Curriculum for High School Students | \$78,460 |
| Martin, James | Plant & Soil Sciences | Kentucky Soybean Promotion Board | Developing Control Strategiesfor Glyphosate - Resistant Weeds in Kentucky | \$16,670 |
| McCulley, Rebecca | Plant & Soil Sciences | National Institute of Food and Agriculture | Manipulating grass-fungal endophyte symbioses to reduce greenhouse gas emmisions and increase soil carbon sequestration in grasslands of Finland, Spain and the United States | \$32,259 |
| Nagy, Peter | RCTF-1-Plant Sciences-PlantPath | KY Science and Technology Co Inc | Allosteric inhibitors of cellular Hsp70 to inhibit virus replication | \$30,000 |
| Naugle, Lottie | Small Business Development Center SBDC | Small Business Administration | OnGoing SBDC PROGRAM INCOME ACCOUNT - Louisville | \$25,000 |
| Oliver, Lesley | Assoc Dean Research/Director AES | KY Horse Racing Commission | Kentucky Equine Medical Director | \$182,927 |
| Palli, Subba | Entomology | KY Science and Technology Co Inc | Molecular Basis of Bed Bug Resistance | \$29,995 |

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| Potter, Daniel | Entomology | O J Noer Research Foundation Inc | Invasive Asian Earthworms: Mounting Threat to North American Golf Courses | \$9,700 |
| Price, Steven | Forestry | KY Science and Technology Co Inc | Dispersal congruency and population structure within imperiled host-parasite systems | \$30,000 |
| Schardl, Christopher | Plant Pathology | KY Science and Technology Co Inc | Long chain fatty acid metabolism in plant-endophyte interaction | \$30,000 |
| Sharkey, Michael | Entomology | KY Science and Technology Co Inc | Applying next generation sequencing technology to estimate biodiversity: A new tool to accurately, rapidly and efficiently solve an old problem | \$27,626 |
| Stringer, Jeffrey | Forestry | KY Division of Forestry | KY Master Logger Classes | \$15,000 |
| Troedsson, Mats | Veterinary Science | Zoetis LLC | Zoetis Research Fellowship Award with UK Veterinary Science | \$55,000 |
| Venard, Claire | Plant & Soil Sciences | Kentucky Soybean Promotion Board | Support for Student Internship with the Kentucky Soybean Variety Performance Program (2014) | \$8,059 |
| Warner, Richard | Biosystems & Ag Eng | US Geological Survey | Ensuring Restoration Success and Management Effectiveness for the Imperiled Blackside Dace at Cumberland Gap National Historical Park: Sediment Acquisition and Modeling of Davis Branch | \$75,900 |
| Zhu, Hongyan | Plant & Soil Sciences | Kentucky Soybean Promotion Board | Genetic improvement of symbiotic nitrogen fixation in soybeans | \$35,000 |