

NKU Office of Research, Grants and Contracts
Proposals Submitted: July 1, 2015 - June 30, 2016
FY 2016

| Principal Investigator | Title | Funding Agency Code | Project Total | College Code | Department Code |
|-------------------------|---|---------------------|---------------|--------------|-----------------|
| Hopfensperger, Kristine | Associations of Alliaria Petiolata Invasion with Soil Phosphorus and Black-legged Ticks | EPSCNSF | \$22,729 | CAS | BioSci |
| Gabbard, Alice | Kentucky Numeracy Project Intensive Plus | KyDepEd | \$79,974 | CAS | KCM |
| Noblitt, Bethany | Supporting Strategies for Building Numeracy in Grades K-3 | MurraySU | \$15,061 | CAS | MathStat |
| Albritton, Matt | Photographic Survey of the American Yard | PhF | \$5,000 | CAS | SchArts |
| Bardgett, Mark | KBRIN - Lead Faculty Award | ULRF | \$17,775 | CAS | PsychSci |
| Bardgett, Mark | KBRIN - Post Bacc. Research Associate Award | ULRF | \$33,125 | CAS | PsychSci |
| Salzman, Ryan | Future Leaders Internship Program (FLIP) | SeasonFn | \$16,000 | CAS | PSCJOL |
| Robertson, Denice | Addressing Climate Change at the Community Level through a Statewide Citizen Science Initiative | EPA | \$6,392 | CAS | CINSAM |
| Strome, Erin | KBRIN : Post Doc Fellow Award | ULRF | \$33,125 | CAS | BioSci |
| Connelly, Caryn | Federal Republic of Germany Unity Campus Weeks | FedRepGm | \$2,524 | CAS | WorldLan |
| Hopfensperger, Kristine | EPA Fellowship - Sarah Stryffler | EPA | \$27,000 | CAS | BioSci |
| Hopfensperger, Kristine | 2016 Bacteria Sampling of A.J. Jolly Lake Beach Area | CampblCo | \$1,477 | CAS | BioSci |
| | Filtered: An Online Puzzle Game for Bioinformatics and Infectious Disease | | | | |
| Bowling, Bethany | Game for Bioinformatics and Infectious Disease | NIH | \$135,000 | CAS | MathStat |
| Connelly, Caryn | Federal Republic of Germans in America Campus Weeks | FedRepGm | \$620 | CAS | WorldLan |
| Gemene, Kebede | Instrumentally Controlled Ion-Selective Electrodes for Applications in Biomedical, Clinical and Environmental Applications Analyses | NIH | \$387,193 | CAS | Chem |
| Curran, Christine | R15: Genetic Susceptibility to Developmental Neurotoxicants | NIH | \$397,500 | CAS | BioSci |
| Daniels, Charlisa | Preparation and Characterization of Stimuli-Responsive Porous Polymer Monoliths for Use in Advanced Materials for Tunable Sensors | EPSCNSF | \$31,175 | CAS | Chem |
| Metz, John | Documenting Social and Environmental Change at Chimkhola, an Upper Elevation Village of West Central Nepal | NatGeoSo | \$13,270 | CAS | HisGeo |
| Wakefield, Monica | Examining Bonobo Social Structure Using Non-Invasive DNA Analysis | NaceyMFn | \$15,000 | CAS | |
| Gish, Melissa | Seasongood Foundation Internship - FY 2015-2016 | SeasonFn | \$5,000 | CAS | PSCJOL |
| Russell, KC | The TIM Consortium: A Dispersed REU Site in Theoretically Interesting Molecules | NSF | \$443,354 | CAS | Chem |
| Hodgson, Ted | Project FLIP: Using Video Podcasts for Mathematics Instruction and Intervention | CPE/FFT | \$136,548 | CAS | MathStat |
| Thompson, David | Potential Feminization via Atrazine Exposure in a Non-target Species: Rainbow Darter (Etheostoma Caeruleum) | KyWRRRI | \$4,500 | CAS | BioSci |
| Boateng, Sam | Groundwater Modeling of the St. Anne Wetlands in Northern Kentucky | KyWRRRI | \$5,000 | CAS | PhyGeoET |
| Salzman, Ryan | Future Leaders Internship Program FY 15-16 | SeasonFn | \$10,000 | CAS | PSCJOL |
| | RUI: Microwave-Assisted Synthesis of Polymer Brushes on One-Step Prepared Organoclay Substrates by Surface-Initiated Atom-Transfer Radical Polymerization | NSF | \$203,005 | CAS | Chem |
| Lagadic, Isabelle | Developing Methacrylates for use as Oil Sorbers | AmChemSo | \$55,000 | CAS | Chem |
| Harris, Daryl | Traditional and Contemporary Performing Arts in Sri Lanka | AsianCC | \$9,460 | CAS | SchArts |
| Curran, Christine | Genetic Susceptibility to PCB-Induced Motor Dysfunction | NIH | \$397,500 | CAS | BioSci |

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|-------------------------|--|----------|-------------|-----|----------|
| McGee, Daniel | Using 3D Visualization to Improve Conceptual Understanding of Precalculus Topics | NSF | \$448,890 | CAS | KCM |
| Shifley, Emily | The Role of FGF Signaling in Craniofacial Development | KyAcaSci | \$5,000 | CAS | BioSci |
| Onorato, Amber | Synthesis of Naturally Occurring Diarylheptanoid Analogues and their Potential Anti-inflammatory Activity | KyAcaSci | \$3,000 | CAS | Chem |
| Wakefield, Monica | Measuring Post-war Primate Densities in the Lomako Forest Reserve, Democratic Republic of Congo | KyAcaSci | \$3,000 | CAS | None |
| Wakefield, Monica | Examining Bonobo Social Structure Using Non-Invasive DNA Analysis | KyAcaSci | \$6,000 | CAS | None |
| Hare, Patrick | Photophysics and Photochemistry of Steroidal Endocrine Disruptors | NSF | \$116,689 | CAS | Chem |
| Carmen, John | R15: Implementation of an Interdisciplinary Research Program | NIH | \$397,500 | CAS | BioSci |
| Bertog, Janet | A New Associated Skeleton of Barosaurus | KyAcaSci | \$5,000 | CAS | PhyGeoET |
| Marczinski, Cecile | The Influence of Caffeine Pre-exposure on the Reinforcing Value, Liking, and Intake of Alcohol Mixed Energy Drinks | UniOfBuf | \$21,214 | CAS | PsychSci |
| DeLee, Nathan | Collaborative Proposal: Stellar Companions by Stellar Parameters - A Pan-Galactic Survey of Binaries, BDs and Hot Jup | NSF | \$85,693 | CAS | PhyGeoET |
| Hopfensperger, Kristine | Influence of the Interactions between Plant Community and Soil Variables on Greenhouse Gas Hotspots and Hot Moments | NSF | \$37,714 | CAS | BioSci |
| Kulkarni, Madhura | The Next Generation STEM Classroom Professional Development Studying and Refining a Model for Excellence in STEM Education | NSF | \$2,957,584 | CAS | CINSAM |
| McGee, Daniel | A Whole School Mathematics Education Professional Development System | NSF | \$322,889 | CAS | KCM |
| Gelbwasser, Kimberly | National Association of Teachers of Singing Event | NATSing | \$600 | CAS | SchArts |
| Carmen, John | Discovery, Synthesis and Characterization of Novel Antimicrobial Products Created by Environmental Microbes | KySEFnd | \$33,799 | CAS | BioSci |
| Schwarz, Kirsten | Managing for Multiple Ecosystem Services in Working Landscapes in Sacramento - Additional Funds | UCaliReg | \$6,900 | CAS | BioSci |
| Yates, Kimberly | Environmental Education Master Plan - Additional Funds | KyEEC | \$363 | CAS | CINSAM |
| Wakefield, Monica | Examining Bonobo Social Structure Using Non-Invasive DNA Analysis | AAPAnth | \$5,000 | CAS | None |
| Gazzaniga, Andrea | Michael Field and the Queer Sublime | WesleyCo | \$11,400 | CAS | Eng |
| Wakefield, Monica | Examining Bonobo Social Structure Using Non-Invasive DNA Analysis | LeakFnd | \$25,000 | CAS | None |
| Durtsche, Richard | Improvements in Facilities, Communication and Equipment at Biological Field Stations & Marine Laboratories - Planning Grants | NSF | \$25,000 | CAS | BioSci |
| Robertson, Denice | Project LEAD: Learn, Engage Assess, Disseminate | NSF | \$596,760 | CAS | CINSAM |
| Guy, Michael | KBRIN: Identification of Novel tRNA Modification Genes in Human and Animal Cells - Yr. 1 | ULRF | \$106,000 | CAS | Chem |
| Daniels, Charlisa | KBRIN: Characterization of Tunable Polymeric Material for Use as an Environmental Sensor in Wastewater Treatment | ULRF | \$106,000 | CAS | Chem |
| Boyce, Richard | MRI: Acquisition of a Photosynthesis/Chlorophyll Fluorescence System | NSF | \$50,110 | CAS | BioSci |
| Mackin, Gail | Collaborative Research: Construction of a Paleoflood Record to Determine the Response and Recovery of the Hyperarid Rio Loa | NSF | \$49,591 | CAS | MathStat |
| Hume, Douglas | Cultural Models of Nature Across Cultures: Categorization Strategies and Analyses of Consensus | NSF | \$32,412 | CAS | None |
| Smith, Jennifer | BookFest: Celebration of Reading and Writing | KyHumCo | \$1,500 | CAS | Eng |
| Nutter, Scott | Cosmic Ray Energetics and Mass (CREAM) Launch and Operation, NKU Co-I | NASA | \$199,994 | CAS | PhyGeoET |
| Bardgett, Mark | KBRIN : Bridge Funds - Additional Funds | ULRF | \$8,618 | CAS | PsychSci |
| DeLee, Nathan | Sloan Digital Sky Survey-VI Project- Additional Funding | AstroPCo | \$26,663 | CAS | PhyGeoET |
| Torres, Mauricio | Advanced Technology Education | NSF | \$1,057,742 | CAS | PhyGeoET |

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|--------------------------|---|----------|-------------|-------|----------|
| Marczinski, Cecile | KBRIN : Acute Effects of Alcohol and Energy Drinks on Behavioral Control-Research Tech | ULRF | \$33,125 | CAS | PsychSci |
| Curran, Christine | KBRIN : Genetic Susceptibility to Developmental Neurotoxicants | ULRF | \$66,250 | CAS | BioSci |
| Boyce, Richard | Quantifying the Impact of Invasive Callery (Bradford) Pear in the Greater Cincinnati Region | OHBioSur | \$500 | CAS | BioSci |
| Boyce, Richard | Assessing the Effects of Amur Honeysuckle Control on Native Plant Communities at Woodland Mound Park 11 Years after Removal | HamCoPrk | \$1,378 | CAS | BioSci |
| Carmen, John | The Discovery of Novel Antifungal Drugs Using a Multidisciplinary Undergraduate Training Pipeline | ULRF | \$53,000 | CAS | BioSci |
| Gemene, Kebede | KBRIN IDeA: Reversible Electrochemical Sensors for Biomedical and Environmental Applications | ULRF | \$53,000 | CAS | Chem |
| Moore, Lisa | Legal Services to the Poor and Administration of Justice FY 15-16 | KyIOLTA | \$15,000 | CCOL | CareerDv |
| Cline, Jennifer | Brighton Health Initiative FY 15-16 | Brighton | \$55,674 | CHP | AH |
| Kazimierczuk, Françoise | Discrimination, Intersectionality and Obesity Among African American Women | RWJFnd | \$49,548 | CHP | AH |
| Gall, Roxanne | Horsemen's Wellness Center FY 15-16 | KyRaceHW | \$5,278 | CHP | Nursing |
| Kazimierczuk, Françoise | The Community Commitment Micro Grant | WellCare | \$1,497 | CHP | Nursing |
| Foster, Cindy | City Heights Health Center Operation | IdaSpenc | \$1,500 | CHP | Nursing |
| Kishman, Mary | City Heights Health Center at Ida Spence Mission: A Community Governing its Health Destiny | GdSamFnd | \$52,018 | CHP | Nursing |
| Allen, Sally | Idea State University | KySTCor | \$1,500 | COB | CIE |
| D'Souza, Rodney | Jump Start | USBankFn | \$8,000 | COB | CIE |
| D'Souza, Rodney | Jump Start | DaterFnd | \$12,227 | COB | CIE |
| Volpe, Rebecca | Small Business Development Center FY 15-16 Federal Funds | USSBA | \$106,000 | COB | SBDC |
| Volpe, Rebecca | Small Business Development Center FY 15-16 State | KySBDC | \$13,500 | COB | SBDC |
| Ryan, Carol | Minority Educator Recruitment & Retention | KyDepEd | \$22,500 | COEHS | CSWL |
| Smith, Lynne | Kentucky Reading Project Alumni Cadre | UKRF | \$58,000 | COEHS | TeachEd |
| Pope, Verl | Family Wellness Clinic | NBBC | \$140,000 | COEHS | CSWL |
| Jones, Melissa | Supported Higher Education Project of Kentucky (SHEP KY) | USDofEd | \$209,505 | COEHS | TeachEd |
| Crites, Steven | Kentucky Traineeship in Special Education 2016-17 | KyDOEd | \$740,000 | COEHS | TeachEd |
| Sherry, Tammie | Kentucky Leveraged Adolescent Literacy and Learning Initiative 2016-17 | CCLitDev | \$2,815 | COEHS | TeachEd |
| Coloma, Roland | KTIP Training & Oversight - FY 2017 | EPSB | \$73,114 | COEHS | TeachEd |
| Runge, Sara | Northern Kentucky Writing Project FY 15-16 | KyDepEd | \$40,488 | COEHS | TeachEd |
| Faulkner, Shawn | CTE KTIP 2016 | KyEPSB | \$2,406 | COEHS | TeachEd |
| Faulkner, Shawn | CTE KTIP 2016 - Additional Funding | KyEPSB | \$401 | COEHS | TeachEd |
| Macke, Caroline | Norse Violence Prevention Project | USDepJus | \$298,079 | COEHS | CSWL |
| Howard, Kathy | Public Child Welfare Certification Program FY 16-17 | EKU | \$12,129 | COEHS | CSWL |
| Howard, Kathy | University Training Consortium/IV-E FY 16-17 | EKU | \$103,209 | COEHS | CSWL |
| Stansbury-Koen, Jennifer | Catholic Diocese of Kentucky | KyDOEd | \$64,322 | COEHS | CSWL |
| Runge, Sara | Kentucky Non-Public School Commission | KyDOEd | \$57,407 | COEHS | CSWL |
| Ozanich, Gary | NACU: Expand Success | UniHlthF | \$781,000 | COI | BusInfo |
| Wang, Hongmei | Prioritizing Natural Areas for Habitat Restoration in Great Parks of Hamilton County Through Use of GIS | HamCoPrk | \$5,000 | COI | CompSci |
| Doyle, Maureen | Another Road to NKU: Transferring - Preproposal | HoHuMI | \$1,000,000 | COI | CompSci |
| Doyle, Maureen | Cultivating Computer Science Education | NSF | \$112,641 | COI | CompSci |
| Strobel, Chris | Batesville Human Resources Video | BateServ | \$4,950 | COI | Comm |
| Lee, Austin | Social Robotics: A Transdisciplinary Class | PGF | \$9,000 | COI | Comm |

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| Gallegos, Monica | Health Communication Campaigns: Design, Implementation and Evaluation | PGF | \$10,000 | COI | Comm |
| Hao, Wei | Applied Research in Computer Science - Cloud and Mobile Computing | NSF | \$600,000 | COI | CompSci |
| Lee, Austin | Persuasive Robotics: Toward a Theory of Robot Generated Messages | NSF | \$226,484 | COI | Comm |
| Ozanich, Gary | Kentucky Medicaid Data Governance and Management Project | KyCHFS | \$124,347 | COI | BusInfo |
| Wang, Hongmei | Prioritizing Natural Areas for Habitat Restoration in Great Parks of Hamilton County Through Use of GIS | HamCoPrk | \$5,250 | COI | CompSci |
| Lee, Austin | NRI: RUI: A Message-Based Model of Human-Robot Trust Development | NSF | \$153,912 | COI | Comm |
| Johnson, Amanda | (KTAP) Kentucky Transitional Assistance Program - Post Secondary Education Program - FY 17 | KyCouHFS | \$144,678 | EDM | SSS |
| Johnson, Amanda | The Family Friendly Campus Toolkit: Making College Real for Two Generations | Endicott | \$6,000 | EDM | SSS |
| Baker, Jeffrey | NKU Pre-Disaster Mitigation Planning Project | FEMA | \$73,477 | FACMGMT | OandM |
| Phinney, Tess | NKU Community Gardens | CCCoopEx | \$700 | FACMGMT | SEMgmt |
| Neikirk, Mark | Mayerson Student Philanthropy Project | Artswave | \$7,000 | GERO | Scripps |
| Neikirk, Mark | Mayerson Student Philanthropy Project FY 15-16 | MayerFnd | \$21,000 | GERO | Scripps |
| Hilleke, Gayle | TASK VISTA | CNCS | \$28,000 | GERO | KCC |
| Hedgebeth, Kristen | Kentucky College Coaches Federal 16-17 | CNCS | \$223,362 | GERO | KCC |
| Hedgebeth, Kristen | Kentucky Service Corps FY 16-17 | CNCS | \$51,995 | GERO | KCC |
| Hilleke, Gayle | Kentucky College Coaches FY 15-16 | HighEdAA | \$423,450 | GERO | KCC |
| Neikirk, Mark | Scripps Howard Foundation Internship | SCRIPPFn | \$2,000 | GERO | Scripps |
| Neikirk, Mark | Center for Civic Engagement Public Relations Intern | SCRIPPFn | \$4,400 | GERO | Scripps |
| Natalie, Vickie | Post Secondary Success Data Analytics Project | KnowWFnd | \$15,000 | OIE | None |
| Brose, Eric | Upward Bound FY 15-16 | USDofEd | \$332,018 | OUTREACH | UpwardB |
| Brinkman, Lisa | NKU Educational Talent Search | GrCinFnd | \$1,000 | OUTREACH | EdTalent |
| Brinkman, Lisa | Educational Talent Search | USBankFn | \$10,000 | OUTREACH | EdTalent |
| Gaffin, John | Northern Kentucky University Police Body Armor Project | KyOHS | \$5,985 | POLICE | None |
| Gaffin, John | Northern Kentucky University Police Taser Project | KyOHS | \$16,701 | POLICE | None |
| Sweeney, Beth | Intergovernmental Personnel Act Assignment - Yr. 2 | NSF | \$134,359 | PROV | None |
| Rowlands, Sue Ott | Advancing Leadership & Inclusiveness in NKU's Ecosystem (A-line) for Success | NSF | \$250,000 | PROV | None |
| Ryan-Perry, Siobhan | Warrior Run | WarRun | \$5,000 | SEDOS | StuEngag |
| Hamill, Lois | Attend Electronic Records Symposium | KyLibAs | \$1,000 | STEELY | None |
| Hammons, Jane | KLA Professional Development Award | KyAcLib | \$1,000 | STEELY | None |
| Downing, Evan | Student Technology Leadership Program Showcase 2015-16 | KyDepEd | \$3,000 | STEELY | ATGCITE |
| Williams, Diane | SB1- NKU Corequisite Math | CPE | \$17,500 | UAA | None |
| O'Mealy, Sean | WNKU Radio Community Service Grant- FY 2015-16 | CPB | \$144,422 | WNKU | None |

TOTAL PROPOSALS: 132

TOTAL DIRECT COSTS: \$16,571,933