

Eastern Kentucky University
Division of Sponsored Programs

Annual Report

Fiscal Year 2015

Introduction

Sponsored Programs is pleased to present the Annual Report for fiscal year 2015. New funding for externally-sponsored projects at EKU totaled \$51,238,202¹ for the recently ended fiscal year, an increase of nearly \$5.8 million from the previous year. The pursuit of external funding illustrates the commitment of EKU faculty and staff to enhance the Eastern experience by providing new resources and opportunities as part of the University's teaching, research, and service activities. We commend those who have devoted the long hours required to prepare grant proposal packages and are excited to see those efforts rewarded.

Notable new competitive awards to celebrate include an award from the Defense Intelligence Agency to establish a Bluegrass State Intelligence Community Center for Academic Excellence, directed by Dr. Michael Collier; an award from the U.S. Department of the Interior for a long-term evaluation of the interacting effect of fire and white-nose syndrome on endangered bats, directed by Dr. Luke Dodd; and a collaborative award from the National Science Foundation to build and sustain a research database for a global biodiversity hotspot, directed by Dr. Brad Ruhfel. Multiple first-time proposal submitters celebrated successes with the funding of smaller awards in FY 2015, and we look forward to celebrating additional successes in the upcoming fiscal year.

Sponsored Programs Mission

The mission of the Division of Sponsored Programs is to provide support for faculty and staff in the pursuit of external funding while assuring compliance with applicable regulations. Sponsored Programs provides assistance in the following areas: identifying potential funding sources; developing proposal narratives and budgets; facilitating compliance with federal, state, sponsoring agency, and University regulations; completing electronic applications; submitting proposals to sponsoring agencies; negotiating contracts and other award agreements; accepting award documents; administering post-award non-accounting functions, including subawards, no-cost extensions, and budget revisions; administering the Institutional Review Board for the protection of human research subjects; and administering the Institutional Animal Care and Use Committee.

FY 2015 Fast Facts

- Number of proposals submitted: **131**
- Number of individuals submitting grant proposals: **95** (**65** faculty, **30** staff)
- Number of individuals submitting grant proposals for the first time: **24** (**19** faculty, **5** staff)
- Total funding awarded for projects with start dates between July 1, 2014 and June 30, 2015: **\$51,238,202**
- Number of new awards: **111**

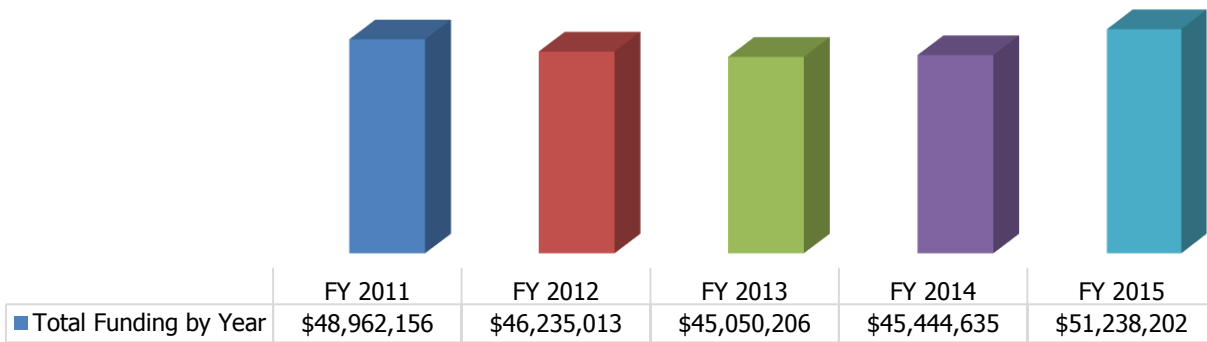
¹ The dollar amounts included in this report reflect new awards received with start dates that fall between July 1, 2014 and June 30, 2015 and may not reflect additional funding awarded on awards with original start dates prior to July 1, 2014.

- Number of project directors on new awards: **79** (48 faculty, 31 staff)
- Number of individuals serving as project directors for the first time on new awards: **15** (13 faculty, 2 staff)
- Number and dollar amount of subawards processed: **57, \$5,561,451**
- Number and dollar amount of vendor/contractor agreements processed: **129, \$1,412,246**
- Number and dollar amount of University Funded Scholarship (UFS) grants awarded: **15, \$66,361**
- Number of Institutional Review Board (IRB) research protocols processed: **276**
- Number of Institutional Animal Care and Use (IACUC) protocols processed: **12**

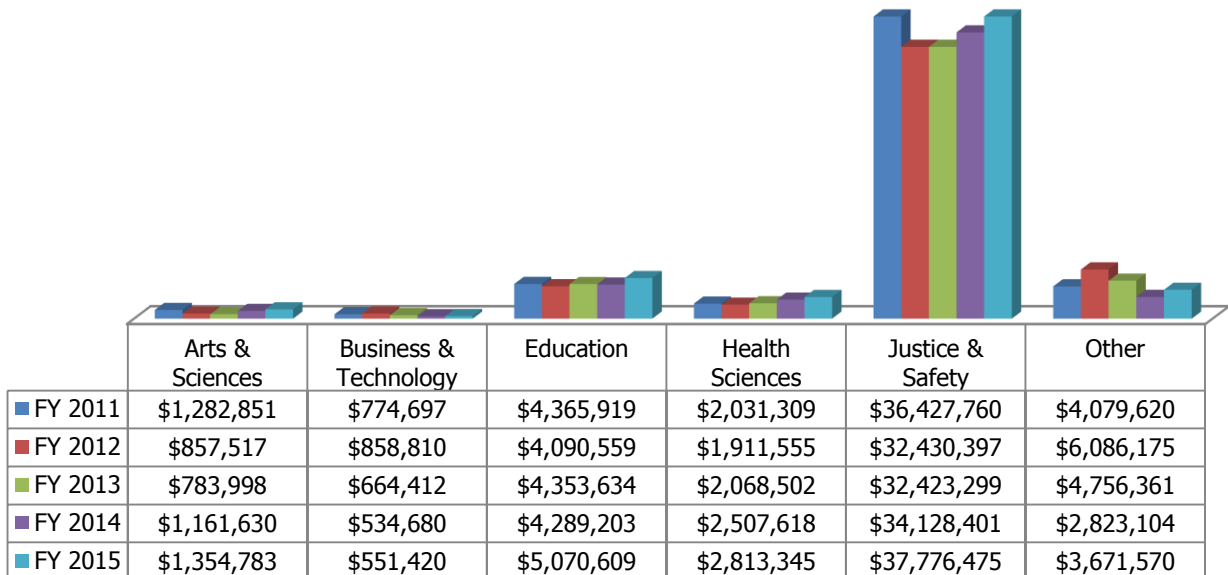
2014-2015 Funding Highlights

Sponsored project funding secured through new awards for the 2015 fiscal year totaled \$51,238,202. The following graphs illustrate the funding trend for the last five years in total and for each college.

Total Funding by Year, FY 2011-FY 2015



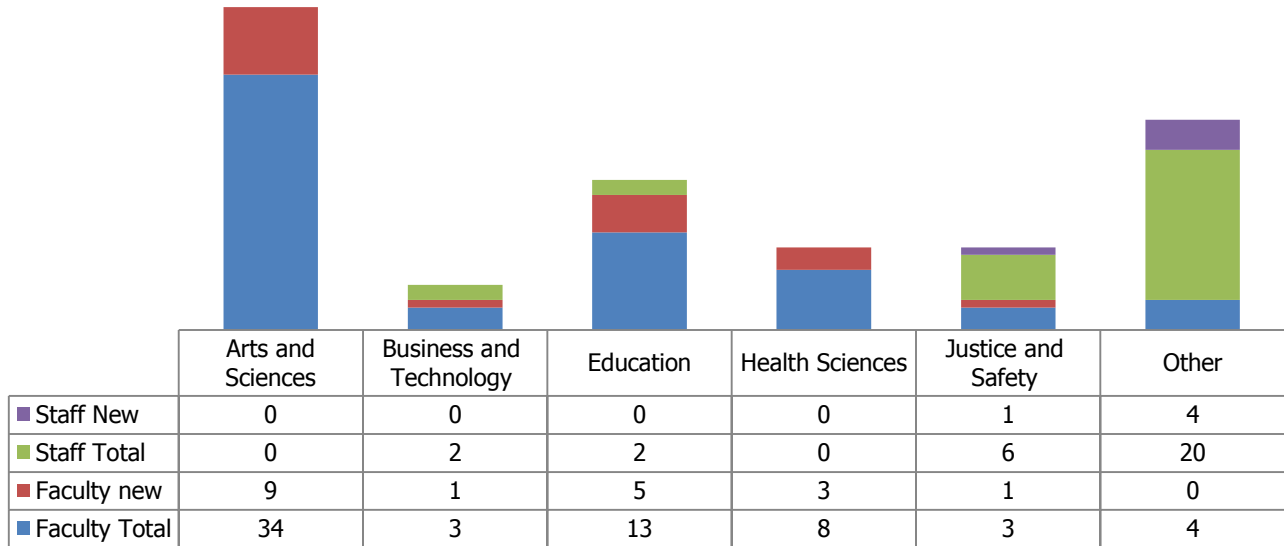
Funding by College, Five-Year History



Faculty and Staff Submitting Grant Proposals

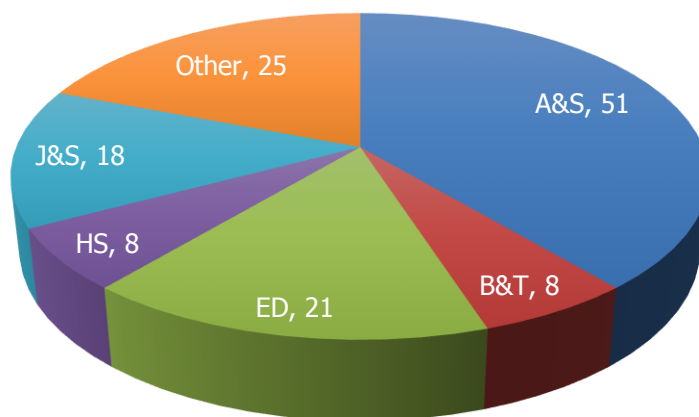
Sixty-five (65) faculty and 30 staff submitted a total of 131 proposals for external funding during the 2015 fiscal year. Nineteen (19) faculty and five (5) staff submitted proposals for the first time in FY 2015. These counts include both project directors and co-project directors on proposals submitted. The following graph illustrates the number of individuals submitting proposals during FY 2015 by college.²

Faculty and Staff Submitting Proposals



The following graph shows the number of proposals submitted by college, based on the college of the project director.

Proposal Submissions by College

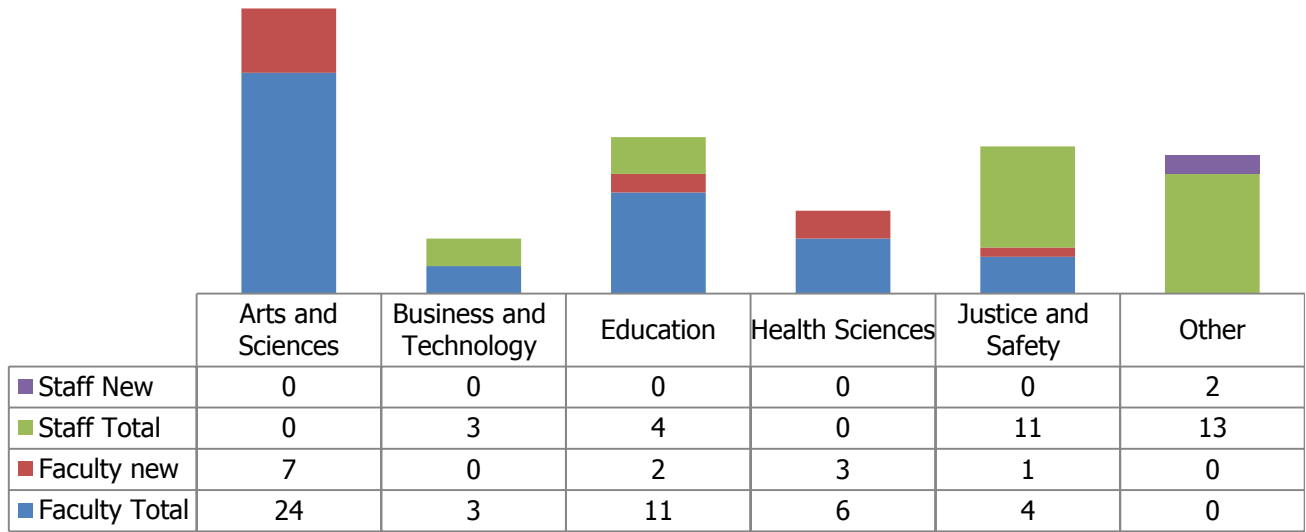


²Note that the number of faculty and staff with projects active in fiscal year 2015 is not comparable to the number of faculty and staff who submitted proposals during fiscal year 2015 because many of the proposals submitted in one fiscal year will begin in the following fiscal year or later.

Project Directors on New Awards

Forty-eight (48) faculty and 31 staff served as project directors on 111 separate new awards that began during the 2015 fiscal year. Thirteen (13) faculty and two staff served as first-time project directors on new awards in FY 2015. The graph below represents the number of faculty and staff who served as project directors on new awards by college.

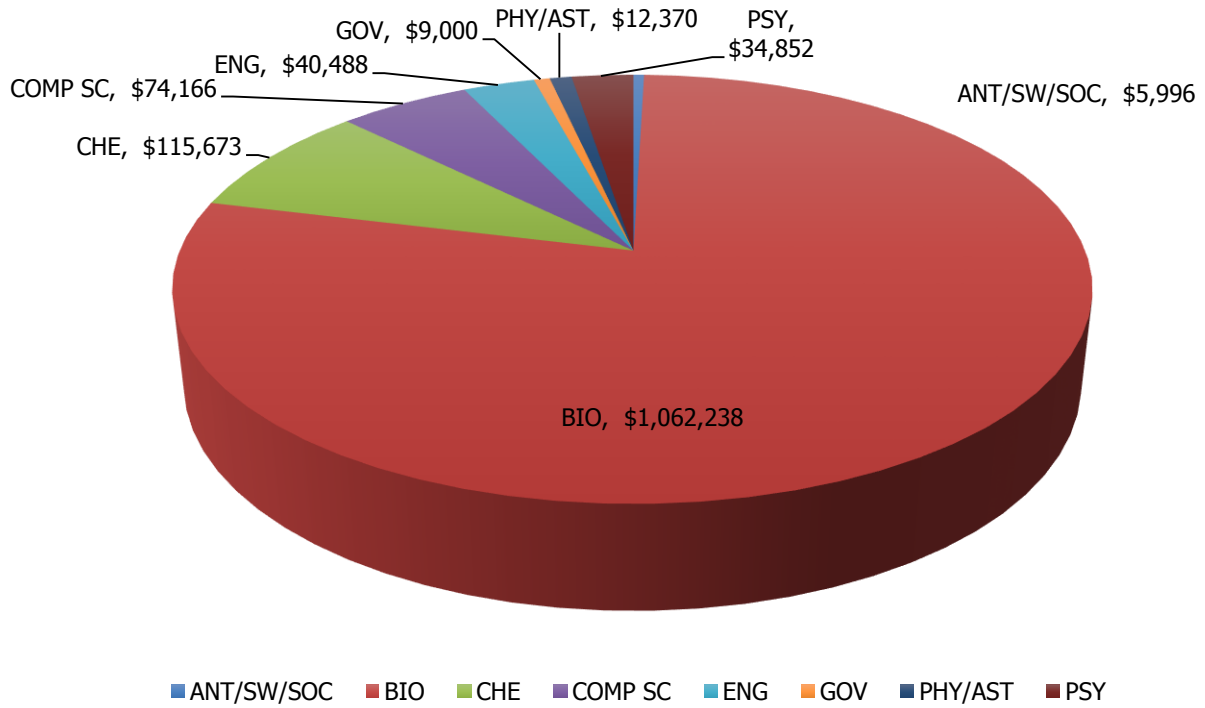
Project Directors on New Awards



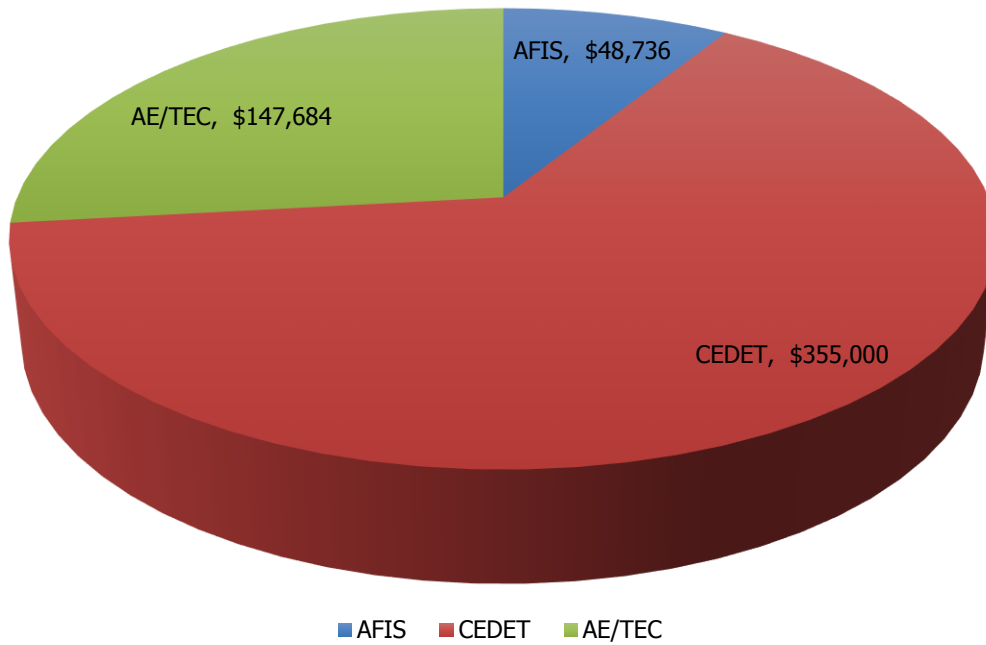
College Funding by Department

The following graphs provide a detailed account of funding activity within each college by presenting funding levels for each department. The dollar amounts included in these graphs reflect new awards received with start dates that fall between July 1, 2014 and June 30, 2015 and may not reflect additional funding added to awards with original start dates prior to July 1, 2014. Departments without new sponsored project awards beginning in fiscal year 2015 are not included.

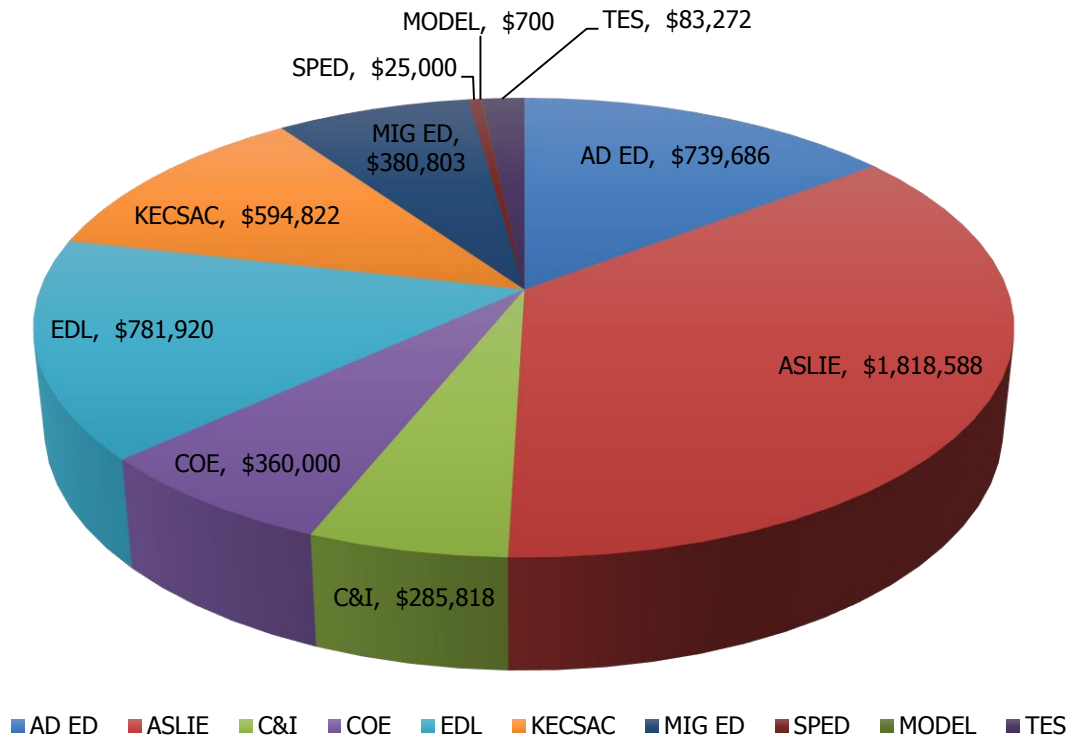
College of Arts and Sciences



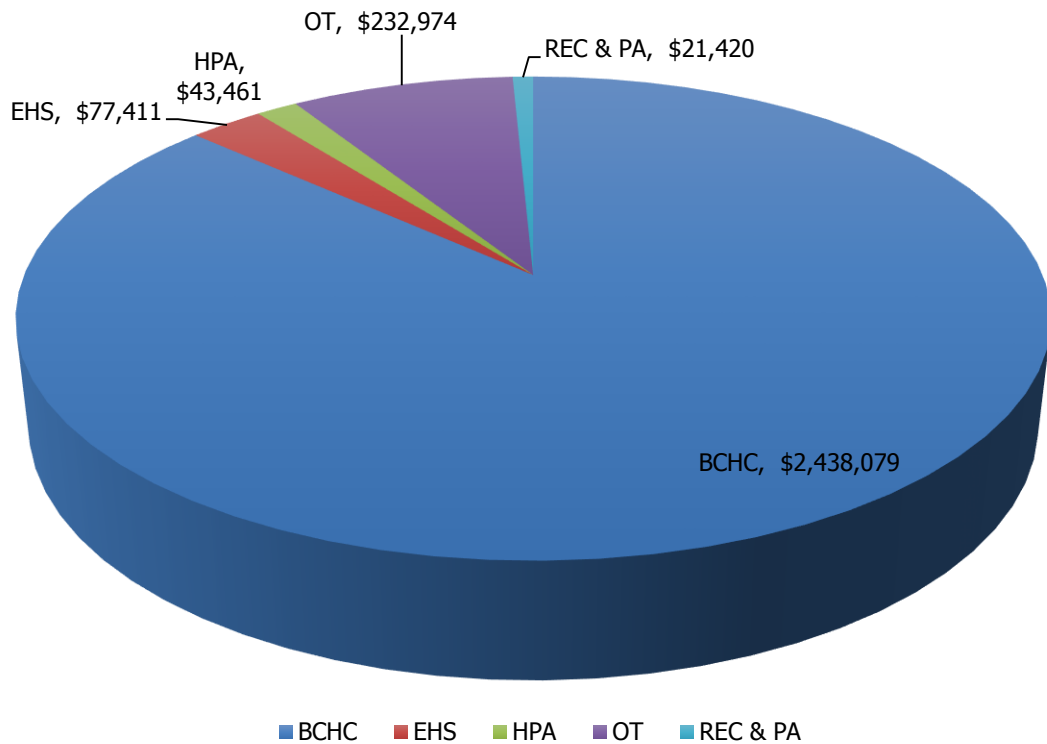
College of Business and Technology



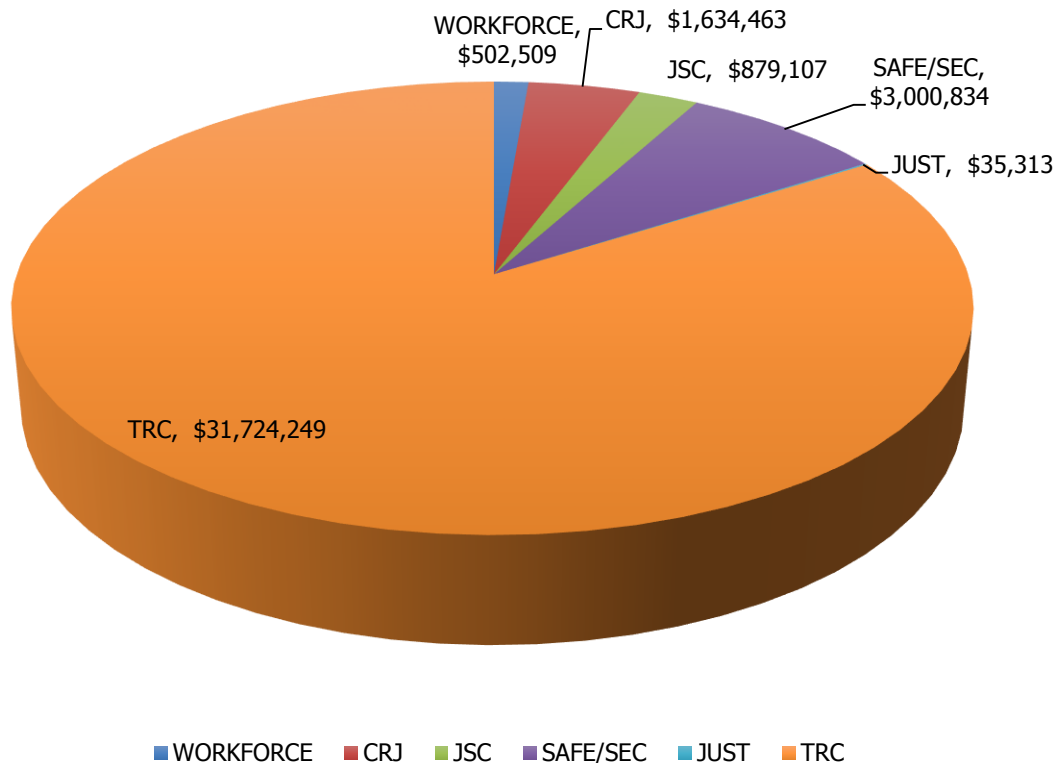
College of Education



College of Health Sciences



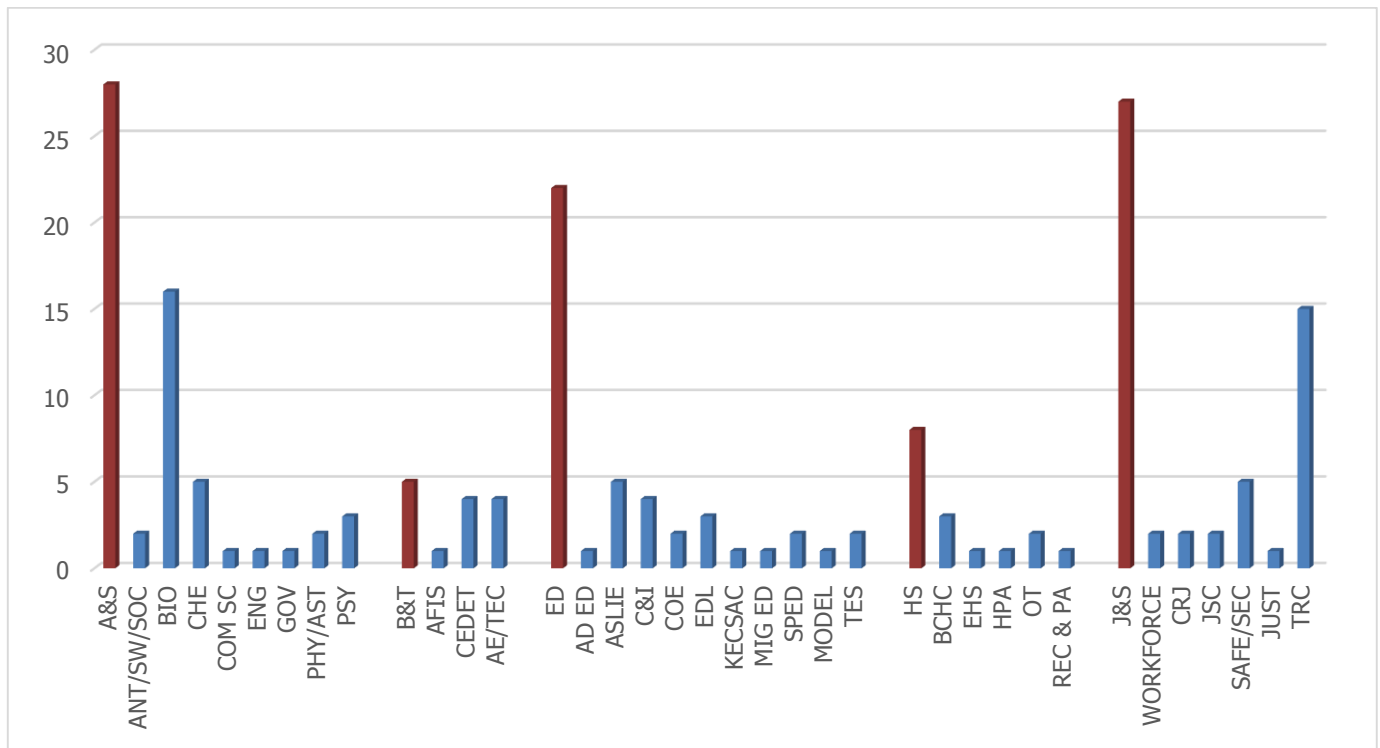
College of Justice and Safety



College Awards by Department

The following graph reflects the number of new awards by department within each college with the college's total new awards in maroon. While the College of Justice and Safety's Training Resource Center was awarded the highest dollar amount of any department within a college, the College of Arts and Sciences' Department of Biological Sciences received more awards than any department on campus.

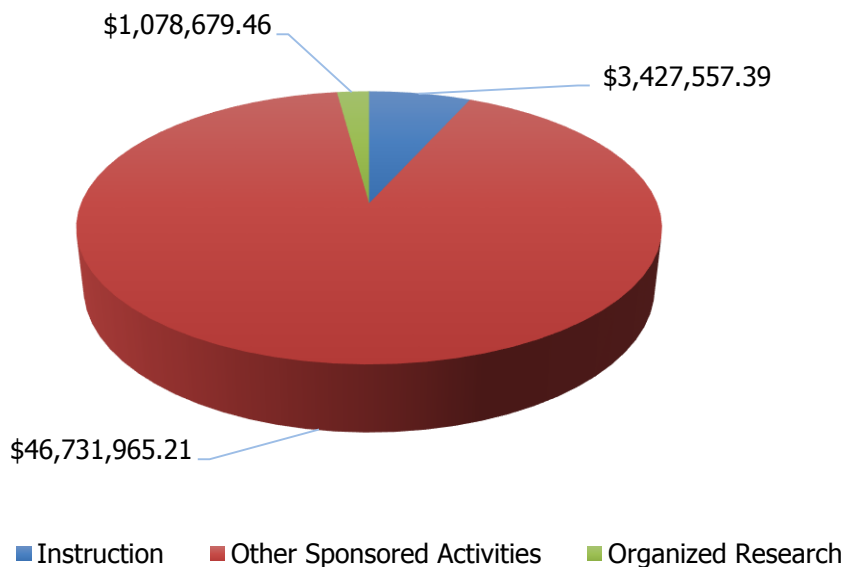
Number of Awards by Department



Funding by Purpose

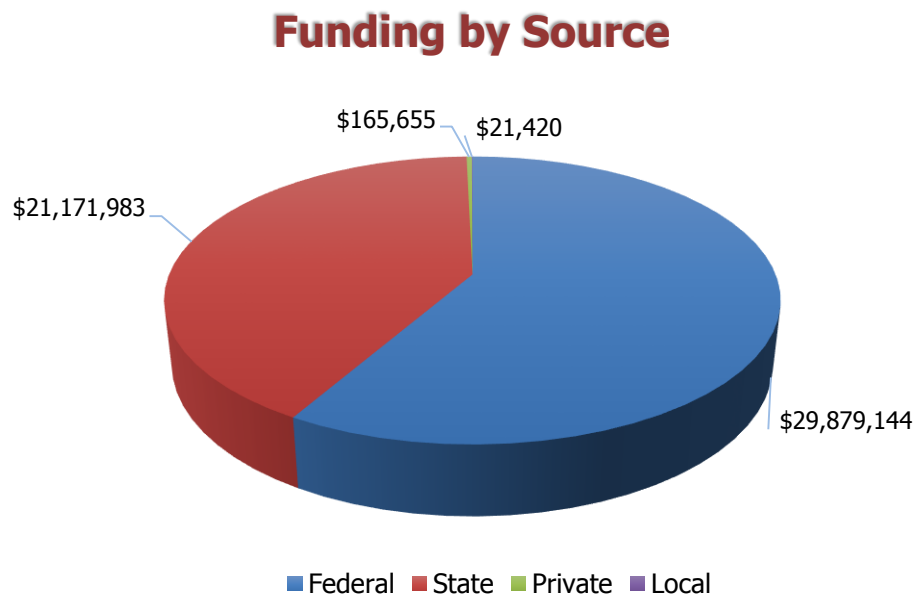
The majority of funding (91.21%; \$46,731,965.21) for fiscal year 2015 was secured for "other sponsored activities" through 72 awards, including service projects. A total of \$3,427,557.39 (6.69%) was secured for instruction projects through 18 awards, and \$1,078,679.46 (2.11%) was secured for organized research projects through 22 awards. The following graph depicts the dollar value of funding approved for organized research, instruction, and other sponsored activities.

Funding by Purpose



Funding by Source of Funds

Awards from federal funds totaled \$29,879,144, which represents 58.31% of the total amount awarded to EKU during the 2015 fiscal year. The federal funding total includes funding awarded directly to the University from federal agencies as well as federal funding passed through the State of Kentucky, awarded through subawards from collaborating universities, and granted through other pass-through agencies. Notable federal agencies include the Department of Health and Human Services, Department of Education, National Science Foundation, and Health Resources and Services Administration. State-funded awards represent 41.32% of total funding for fiscal year 2015 at \$21,171,983. Notable state agencies include the Cabinet for Health and Family Services, Council on Postsecondary Education, Department of Justice, Department of Education, Department of Corrections, and Transportation Cabinet. The remaining 0.37% of funding for fiscal year 2015 was awarded by private (\$165,655) or local (\$21,420) sponsoring agencies, including local governments and companies. The following graph illustrates the breakdown of federal, state, local, and private funding for fiscal year 2015.



The Year in Review . . . Looking Forward

Technical Assistance and Compliance Monitoring

Sponsored Programs seeks to enhance and facilitate the ability of faculty and staff in supporting the University's multi-faceted goals by successfully competing for funding from external sponsoring agencies. To accomplish this goal, Sponsored Programs is responsible for a dual role focused on technical assistance and compliance. Our objective is to assist faculty and staff in developing quality proposals that will be competitive with applications submitted by other organizations to external grant programs while also ensuring that federal, state, sponsor, and University compliance regulations are followed.

In FY 2015, Sponsored Programs devoted attention to the development of additional resources as tools for the proposal development process. These efforts will continue in the upcoming fiscal year and will include new video resources that will be made available online.

As new Federal Office of Management and Budget (OMB) regulations went into effect on December 26, 2014, Sponsored Programs made adjustments to internal processes and forms to ensure compliance with new guidelines. A Quick Guide to the new Uniform Guidance was developed and shared with the campus community highlighting changes to federal regulations.

Faculty Development

In the fall of 2008, Sponsored Programs began offering a professional development course on developing competitive grant proposals. The course is open to full-time EKU faculty and staff who plan to submit grant proposals to support projects to be conducted as part of EKU's mission. The goal is to provide technical assistance and access to resources in support of future grant proposal submissions, and additional one-on-one assistance is available from Sponsored Programs staff throughout and subsequent to the semester of participation. During the 2015 fiscal year, Sponsored Programs developed new resources for the course resource webpage to provide convenient access to proposal development resources and sample documents.

Sponsored Programs tracks grant activity for all participants beginning with the semester of participation in the course. The following table reflects the participation level since 2008 and results from subsequent grant proposal submissions through the Fall 2014 semester.

Total Number of Participants (Fall 2008 – Fall 2014)	137
Number of Proposals Submitted by Participants	167
Number of Grant Awards to Participants	113
Amount of External Funding Secured by Participants	\$6,477,567

During FY 2015, work began on transforming the face-to-face course to an online version hosted in Blackboard. The goal is to provide a more flexible learning opportunity for faculty and staff without requiring regular attendance at scheduled meetings. The new course will be offered for the first time in Fall 2015 with a goal of eventually creating a self-paced online version that faculty and staff may begin at any time in order to further provide flexibility for faculty and staff interested in learning more about submitting proposals for external funding. If warranted, Sponsored Programs will continue to offer a separate face-to-face version of the course on a schedule to be determined.

Subawards and Vendor/Contractor Agreements

A total of 186 subawards and vendor/contractor agreements with a value of \$6,973,697 were processed during the 2015 fiscal year for a variety of projects and tasks on externally-sponsored projects. Subawards totaled \$5,561,451 to 57 subrecipient organizations and vendor/contractor agreements totaled \$1,412,246 to 129 vendors/contractors.

In FY 2015, Sponsored Programs improved the efficiency of new web-based forms implemented in the prior fiscal year. As a result of the implementation of the new Uniform Guidance in December 2014, vendor agreements were replaced with contractor agreements. Changes to procurement guidelines in December 2015 will mean additional revisions, and contractor agreements will be processed through Purchasing instead of through Sponsored Programs. These changes will be finalized and shared with the campus community in December 2015.

In addition, the subaward template was redesigned to reflect compliance requirements of the new Uniform Guidance as well as to more concisely present terms and conditions for subrecipients. For competitive grant proposals, a new pre-award process was implemented to improve efficiency for project directors at the award stage.

University Research Committee Grants

University Funded Scholarship (UFS) grants are competitively awarded based on the review and recommendations of the University Research Committee (URC) and provide support for faculty to engage in research, scholarship, and creative activities. Faculty may apply for up to \$3,000 for faculty mini-grants to support activities where

resource needs are modest and in areas where opportunities for external funding are extremely limited. Faculty may apply for up to \$10,000 for major project awards as seed grants for the purpose of obtaining significant external funding. In 2015, two new options were added: a Research Initiation option to support new faculty in initiating research programs and a Dissemination Support option to support dissemination costs for faculty who have been previously funded through University-Funded Scholarship awards.

In the 2015 fiscal year, improvements were made to the submission process, including conversion to a new online system. The new process has shortened the time involved in preparing application components and improved the efficiency of the review process.

During the 2015 fiscal year, Sponsored Programs processed 33 applications for university-funded scholarship (19 mini-grants, 9 major projects, 4 research initiation, and 1 dissemination support). The URC awarded a total of \$66,361 to 15 faculty for a variety of projects. Funding was provided for four major project awards, 10 mini-grants, and 1 dissemination award.

Scholarship of Teaching Grants

Through the Office of Graduate Education and Research and the Office of the Provost, funding was made available in FY 2015 for projects that focus on the impact of quality teaching on student retention, graduation, narrowing of achievement gaps, success in developmental education, student success in online courses, pedagogical improvements to existing courses, or other University priorities.

A total of 11 Scholarship of Teaching grant applications were received, and six projects were funded at a total of \$13,895.

Human Subjects Research Compliance

The Institutional Review Board (IRB) for the protection of human research subjects is responsible for reviewing all research activities involving human subjects conducted by ECU faculty, staff, or students. The mission of the IRB is to promote and safeguard research activity that involves human subjects within the academic community. During the 2015 fiscal year, 276 research protocols were submitted for review. Of these protocols, 144 were classified as exempt from further review under the federal Office of Human Research Protections (OHRP) regulations. Eighty-four (84) were processed through the expedited review process, and five (5) were approved after full convened meetings of the IRB. Thirty-one (31) protocols were approved through authorization agreements with other university or hospital IRBs, and 12 protocols were withdrawn by investigators during the review process.

A total of 248 individuals served as principal investigators on submitted applications, and 69 faculty served as primary research advisors on student projects. The average review period for new applications during FY 2015 was 9.27 calendar days from the date of Sponsored Programs' receipt of the application to the date on which the committee issued approval.

Animal Care and Use Compliance

The mission of the Institutional Animal Care and Use Committee (IACUC) is to promote and safeguard activities within the ECU academic community that involve animals. Twelve (12) protocols were submitted to the IACUC during the 2015 fiscal year. Ten protocols were approved, and two were withdrawn by the investigator during the review process. These projects represent various types of research and instruction involving animal subjects undertaken by ECU faculty, staff, and students.

A total of 10 individuals (6 faculty and 4 students) served as principal investigators on IACUC-approved projects, and two faculty served as primary research advisors on four student projects. The average review period for new applications during FY 2015 was 32.80 calendar days from the date of Sponsored Programs' receipt of the application to the date on which the committee issued approval.

Sponsored Projects Awarded During FY 2015

The following list reflects awarded sponsored projects with start dates between July 1, 2014 and June 30, 2015 and may not reflect funding added to previously awarded projects that were still active during the 2015 fiscal year.

Akers, Jon (Criminal Justice & Police Studies). Kentucky Center for Instructional Discipline. Kentucky Department of Education. \$719,463.

Akers, Jon (Criminal Justice & Police Studies). Kentucky Center for School Safety. Kentucky Department of Education. \$915,000.

Althaus, Krista (Curriculum & Instruction). Kentucky Center for Mathematics - Regional Coordinator. Northern Kentucky University. \$80,930.

Autrey, Kathy (Training Resource Center). University Training Consortium Professional Development and Training. Cabinet for Health and Family Services. \$25,945,537.

Autrey, Kathy (Training Resource Center). Project SAFESPACE (Screening and Assessment for Enhanced Service Provision to All Children Everyday). University of Louisville. \$42,663.99.

Barger, Crystal (Training Resource Center). Medicaid Waiver Management Application. Cabinet for Health and Family Services. \$155,578.

Barger, Crystal (Training Resource Center). Early Childhood Training Standards. Governor's Office of Early Childhood. \$20,000.

Barger, Crystal (Training Resource Center). University Training Consortium - Child Support. Kentucky Cabinet for Health and Family Services. \$203,487.

Barger, Crystal (Training Resource Center). Kentucky Health Benefits Exchange. Kentucky Cabinet for Health and Family Services. \$281,241.

Barger, Crystal (Training Resource Center). Advocacy Liaison. Cabinet for Health and Family Services. \$75,268.

Barger, Crystal (Training Resource Center). Early Childhood Mental Health. Kentucky Department of Public Health. \$170,000.

Belluscio, Teresa (Disabilities Office). Appalachian Tutoring Grant. Kentucky Department of Education. \$72,300.

Bhandari, Michelyn (Health Promotion & Administration). Kentucky Lung Cancer Survivorship Program. University of Kentucky. \$43,461.

Braccia, Amy (Biological Sciences). Stream Restoration Monitoring. USDA Forest Service. \$5,000.

Bradley, Michael and **Sharp, Ryan** (Recreation & Park Administration). City of Paintsville Trail Town Certification. City of Paintsville, Kentucky. \$6,420.

Bundy, Myra Beth (Psychology) and **Wittman, Peggy** (Occupational Therapy). Eastern Kentucky University Developmental Disabilities Clinic Autism Social Groups. WHAS Crusade for Children. \$3,000.

Cain, Karen (Enrollment Management). Coordinator of the Developmental Education and. Kentucky Council on Postsecondary Education. \$82,429.

Calderon, Lindsay (Biological Sciences). The Effect of Bromoenol Lactone on Breast Cancer Tumor Growth Mediated by Angiogenesis. Kentucky NSF EPSCoR. \$25,000.

Calie, Patrick (Biological Sciences). Lead Faculty Award for the Kentucky Biomedical Research Infrastructure Network (KBRIN). University of Louisville. \$30,489.

Calie, Patrick (Biological Sciences). Lead Faculty Award for the KBRIN (Kentucky Biomedical Research Infrastructure Network). University of Louisville. \$32,649.

Carmean, Kelli (Anthropology, Sociology, & Social Work). Student Internship at USDA Forest Service. USDA Forest Service. \$2,997.20.

Ciocca, Marco (Physics & Astronomy). CEDAR Collaborative Research: Development and Application of a Multi-Site Observing Network to Study Mid-Latitude Thermospheric Dynamics. Clemson University. \$2,570.

Collier, Michael (Safety and Security). Bluegrass State Intelligence Community Center of Academic Excellence. Defense Intelligence Agency. \$396,851.

Cornelius, Susan (Center for Career and Workforce Education). 21st Century Community Learning Centers. Kentucky Department of Education. \$492,509.

Cornelius, Susan (Center for Career and Workforce Education). 21st CCLC Conference Support. University of Tennessee. \$10,000.

Cranfill, Tamara and **Michael, Sonia** (Special Education). WHAS - Technology. WHAS Crusade for Children. \$10,000.

Cranfill, Tamara and **Michael, Sonia** (Special Education). WHAS Scholarships to Special Education Students. WHAS Crusade for Children. \$15,000.

Davis, Tricia (American Sign Language and Interpreter Education). Deafblind Equipment Distribution Program. Federal Communications Commission. \$144,451.

Davis, William and **Field, Dennis** (Applied Engineering and Technology). Perkins Grant. Office of Career and Technical Education. \$65,813.

Davis, William (Applied Engineering and Technology). Field-Based Teacher Education. Office of Career and Technical Education. \$65,371.

Davis, William (Applied Engineering & Technology). Professional Development for Teacher Educators in Career and Technical Education. Office of Career and Technical Education. \$13,500.

Dent, Delinda (Curriculum & Instruction). Kentucky Reading Project. Collaborative Center for Literacy Development. \$59,100.

Dodd, Luke (Biological Sciences). Biological Assessments of the Eastern Kentucky Training Site and H.R. Disney Training Site in Kentucky. Kentucky Department of Military Affairs. \$80,000.

Dodd, Luke (Biological Sciences). A Long Term Evaluation of the Interacting Effect of Fire and White-Nose Syndrome on Endangered Bats. U. S. Department of the Interior. \$286,894.

Dunlap, Scotty (Safety, Security and Emergency Management). NIOSH Education Research Center. University of Kentucky. \$138,615.

Duvall, Roger (WEKU). WEKU Community Service Grant. Corporation for Public Broadcasting. \$192,586.

Feltus, Oliver (Accounting, Finance & Information Systems). Real Estate Education Grant. Kentucky Real Estate Commission. \$48,736.

Fink, Hal (Training Resource Center). Kentucky Department of Corrections Technical Assistance. Kentucky Department of Corrections. \$104,298.

Fink, Hal (Training Resource Center). Kentucky Department of Corrections Educational Enhancement Program. Kentucky Department of Corrections. \$800,000.

Fister, Susan (Bluegrass Community Health Center). Family Planning Grant. Madison County Health Department. \$43,440.

Fister, Susan (Bluegrass Community Health Center). Expanded Medical Services Supplemental Grant. Health Resources and Services Administration. \$218,486.

Fister, Susan (Bluegrass Community Health Center). Bluegrass Community Health Center. Health Resources and Services Administration. \$2,176,153.

Flannery, David (Police Department). Highway Safety Grant Overtime and Equipment. Kentucky Transportation Cabinet. \$3,000.

Florell, Dan (Psychology). National Association of School Psychologists Archives. National Association of School Psychologists. \$4,800.

Gao, Pei (Chemistry). Towards highly sensitive protein-based diagnostics through immobilized nano-patterned protein. Kentucky NSF EPSCoR. \$24,978.

Gleisner, Teresa (Corbin Campus). Tri-County Education Pays Center. Cabinet for Health and Family Services. \$91,160.

Gray, Kishonna (School of Justice Studies). Educational Training for Saudi Aramco Security Personnel. Aramco Training Services Company. \$35,313.

Hay, Michael (Migrant Education). Migrant Regional Center / Southeast Regional Center. Kentucky Department of Education. \$380,803.

Hayes, David (Biological Sciences). DNA barcode reference library for development of eDNA methods for detecting rare Arkansas freshwater mussels. Arkansas Game and Fish Commission. \$42,799.59.

Hayes, Laurence (American Sign Language and Interpreter Education). Interpreter Training Program. Kentucky Office of Vocational Rehabilitation. \$514,760.

Hayes, Laurence (American Sign Language and Interpreter Education). Vocational Rehabilitation Interpreting Services. Kentucky Office of Vocational Rehabilitation. \$505,214.

Hayes, Laurence (American Sign Language and Interpreter Education). Interpreter Training Program: P-12 Educational Interpreter In-Service. Kentucky Department of Education. \$527,532.

Herzog, Ed (Project Administration). Sidewalk connecting Hall Drive and Kit Carson Drive. Kentucky Transportation Cabinet. \$697,431.

Hughes, Amy (Justice and Safety Center). Rural Domestic Preparedness Consortium. Center for Rural Development. \$347,000.

Hughes, Amy (Justice and Safety Center). Rural Domestic Preparedness Consortium. Center for Rural Development. \$532,107.02.

Jones, Paula (Adult Education). Adult Education. Kentucky Adult Education. \$739,686.

Kalkan, Kerem (Government). Research on Election Initiatives. The Pew Charitable Trusts. \$9,000.

Kipp, Anne (Model Laboratory School). Carter Caves Field Trip. Target Corporation. \$700.

Kline, Terry (Safety, Security and Emergency Management). Kentucky Graduated Licensing Classroom Program. Kentucky Transportation Cabinet. \$856,840.

Kline, Terry (Safety, Security and Emergency Management). Kentucky Motorcycle Rider Education Program. Kentucky Transportation Cabinet. \$1,019,040.

Kline, Terry (Safety, Security and Emergency Management). Kentucky State Traffic School Program. Kentucky Transportation Cabinet. \$589,488.

Landon, George (Computer Science). 3-D Shape and Content from Transmittance. Kentucky Science and Technology Corporation. \$74,166.

Maples, James (Anthropology, Sociology, & Social Work). Economic Impact Study of Rock Climbing in the Red River Gorge. Access Fund. \$2,999.15.

Marion, Jason (Environmental Health Sciences). Kentucky Environmental Public Health Traineeships Program. Health Resources and Services Administration. \$77,411.

Martin, Sally (English & Theatre). ECU Writing Project. Kentucky Department of Education. \$40,488.

McChesney, Jon (Recreation & Park Administration). Graduate Assistant - Special Populations, City of Richmond. City of Richmond. \$15,000.

Miller, Gladys (Center for Career and Cooperative Education). Kentucky Work Study Program. Kentucky Higher Education Assistance Authority. \$30,000.

Mooers, Ian (Center for Economic Development, Entrepreneurship & Technology). 2015 Idea State U Competition. Kentucky Science and Technology Corporation. \$500.

Mooers, Ian (Center for Economic Development, Entrepreneurship & Technology). Rural Business Enterprise Grant: CEDET Technical Training Program. United States Department of Agriculture. \$70,000.

Moreland, Robyn (Student Affairs). Education Pays Center. Kentucky Cabinet for Health Services. \$370,824.

Naugle, Kim (Dean of Education). Clinical Apprenticeship for Preparing Elementary Teachers (CAPT-E). Council on Post-Secondary Education. \$150,000.

Naugle, Kim (Dean of Education). Clinical Apprenticeship for Teacher Preparation Initiative. Kentucky Council on Postsecondary Education. \$210,000.

Ndinguri, Margaret (Chemistry). In vitro and In vivo analysis of Pt-LHRH and Re/Tc-LHRH conjugates as potential prostate cancer target targeting agents. University of Louisville. \$56,800.

Nolan, Ronnie (KECSAC). Kentucky Educational Cooperative for State Agency Children (KECSAC). Kentucky Department of Juvenile Justice. \$594,822.

Oakley, Oliver (Biological Sciences). The immunomodulatory role of estrogen in ovulation. University of Louisville. \$56,000.

Petrilli, Peggy (Curriculum & Instruction). Kentucky Teacher Internship Program. Kentucky Education Professional Standards Board. \$95,788.

Petrilli, Peggy (Teacher Education Services). Kentucky Teacher Internship Program. Education Professional Standards Board. \$81,267.

Petrilli, Peggy (Teacher Education Services). Kentucky Teacher Internship Program: Career and Technical Education. Kentucky Education Professional Standards Board. \$2,005.

Pierce, Marcia (Biological Sciences). Bridging the Gap: Appalachian Students in Biomedical Research in Kentucky. University of Kentucky. \$254,713.39.

Porter, Diana (Curriculum & Instruction). Adolescent Literacy Project. Collaborative Center for Literacy Development. \$50,000.

Powell, Norman (Educational Leadership). Future Leader Academy. University of Kentucky. \$12,000.

Powell, Norman (Educational Leadership). MERR Scholarship Program. Kentucky Department of Education. \$100,000.

Rainey, Jason (Center for Economic Development, Entrepreneurship & Technology). ECU Small Business Development Center. University of Kentucky. \$109,500.

Reed, Tanea (Chemistry). Determination of Oxidative Stress Parameters of a Novel Gallium Compound to Reduce Brain Damage in Moderate TBI Treated Mice. Texas Developing Technologies, Inc. \$11,680.99.

Rice, Corrie (Training Resource Center). Managed Care Organization Forums. Kentucky Cabinet for Health and Family Services. \$120,000.

Richmond, Richard (Graduate Education and Research). Ronald E. McNair Postbaccalaureate Achievement Program. U. S. Department of Education. \$220,000.

Richter, Stephen and **Brown, David** (Biological Sciences). Statewide validation of the Kentucky Wetland Rapid Assessment Method (KY-WRAM) and Indices of Biotic Integrity. Kentucky Division of Water. \$148,749.88.

Richter, Stephen (Biological Sciences). Pesticide occurrence and amphibian species richness in wetlands of the Salt River basin, Kentucky. The Wetland Foundation. \$1,200.

Richter, Stephen (Biological Sciences). Examining the impacts of valley fills on stream water quality and amphibian and macroinvertebrate communities in southeastern Kentucky. Kentucky Water Research Institute. \$3,646.

Richter, Stephen (Biological Sciences). Conservation genetics of gopher frogs in North Carolina. North Carolina Wildlife Resources Commission. \$2,000.

Ritchison, Gary (Biological Sciences). Possible functions of tail-pumping by male and female American Kestrels. Kentucky Academy of Science. \$1,449.

Rivard, Shirley (Deaf and Hard of Hearing Student Services). Deaf and Hard of Hearing Student Services. Kentucky Office of Vocational Rehabilitation. \$701,375.

Ross, Tim (Applied Engineering and Technology). Feasibility Study of Aviation/Aerospace academic program at the Ashland Regional Airport in Worthington. Kentucky Department for Local Government. \$3,000.

Roush, Daniel (American Sign Language and Interpreter Education). TerpTube: An Accessible Online Portfolio for Deaf Mentors and Sign Language Interpreters. U. S. Department of Health and Human Services. \$126,630.91.

Ruhfel, Brad (Biological Sciences). Resolving the phylogenetic placement of the recently described *Trifolium kentukiense* Chapel and Vincent using molecular data.. Kentucky Waterways Alliance. \$1,000.

Ruhfel, Brad (Biological Sciences). Digitization TCN: Collaborative Research: The Key to the Cabinets: Building and Sustaining a Research Database for a Global Biodiversity Hotspot. National Science Foundation. \$90,648.

Russell, Karen (Training Resource Center). Provide focus group facilitation for CPE. Kentucky Council on Postsecondary Education. \$7,300.

Schneck, Colleen (Occupational Therapy). PREPaRE: Preparing Related Services Personnel for Rural Employment. U. S. Department of Education. \$232,974.

Smith, Darrin (Chemistry). Proposed Synthesis of Ergovaline. United States Department of Agriculture. \$9,390.94.

Smith, Darrin (Chemistry). Powering the Kentucky Bioeconomy for a Sustainable Future. Kentucky NSF EPSCoR. \$12,823.

Smith, Kristel (Center for Economic Development, Entrepreneurship & Technology). Kentucky Innovation Network at Richmond. Kentucky Science and Technology Corporation. \$175,000.

Sons, Lisa (Educational Talent Search). Educational Talent Search. U. S. Department of Education. \$351,253.

Sowers, Lynn Dee (Research and Service Center). Juvenile Justice Training Center. Kentucky Department of Juvenile Justice. \$605,359.

Stewart, Tamara (University Programs). Upward Bound. U. S. Department of Education. \$506,785.

Stewart, Tamara (Upward Bound). Upward Bound Food Service Program. Kentucky Department of Education. \$14,881.

Thompson, Aaron (Educational Leadership). Senior Vice President of Academic Affairs for the Council on Postsecondary Education. Kentucky Council on Postsecondary Education. \$669,920.

Tinsley, Jane (Enrollment Management). NOVA Student Support Services Program. U.S. Department of Education. \$337,546.

Wachtel, Elizabeth (Training Resource Center). Behavioral Health/Substance Abuse Initiative. Kentucky Cabinet for Health and Family Services. \$3,049,887.

Wachtel, Elizabeth (Training Resource Center). DBHDID-Policy Advisor. Cabinet for Health and Family Services. \$143,630.

Wang, Jing and **Lair, Jessica** (Physics & Astronomy). Astronomy Through the Curriculum: Addressing the Next Generation Science Standards. Kentucky NSF EPSCoR. \$9,800.

Winslow, Matthew (Psychology). Building empathic character via an interactive smartphone app. Indiana University. \$27,052.

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