

Eastern Kentucky University Division of Sponsored Programs

Annual Report Fiscal Year 2021

September 28, 2021



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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 technical and compliance assistance in the following areas: identifying potential funding sources; developing proposals 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 issues, including subawards, award modifications, no-cost extensions, and budget revisions; administering the Institutional Review Board for the protection of human research subjects; administering the Institutional Animal Care and Use Committee; and administering internally-funded grant programs.

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Shijin Kozhumal and **Greg Gorbett**
(Fire Protection and Paramedicine Sciences) were awarded a grant from the National Institute of Justice for fire science research. At left, Kozhumal measures the depth of calcination of gypsum plasterboard after exposure to a controlled heat flux using a depth of calcination tool.

Introduction

The 2021 fiscal year was a challenging year of necessary precautions related to the COVID-19 pandemic. For much of the year, in-person interactions were limited, and sponsored projects required creative approaches to continuing activities. We are proud of how well project directors adapted to necessary changes while continuing important work, and we appreciate the commitment and patience of all involved.

During FY 2021, ECU faculty and staff secured 82 sponsored project awards totaling \$86,082,419 in new external funding. This funding amount represents a record high for the University. However, more than \$54 million was awarded for institutional and student support through special funding allocations related to the COVID-19 pandemic. Without these funds, sponsored project funding would have been at a 20-year low. Some of this decrease has resulted from the elimination of agreements funding the provision of administrative services on behalf of the state. In recent years, the University has intentionally reduced the extent to which services are provided through contracts that do not fully cover associated indirect costs and that represent risk to the University.

In addition, there has been a notable decrease in faculty interest for pursuing sponsored project awards. Beginning with a survey we conducted in 2019, we have identified some areas of concern that function as barriers in managing awards. Our goal is to continue collaborating with administrative offices throughout the University to pursue solutions to these challenges. We encourage continued feedback from faculty and staff in this regard.

After a pause in the distribution of recovered Facilities and Administrative (F&A) costs in recent years, we were pleased to have been able to arrange for the distribution of a percentage of recovered F&A funds to project directors in FY 2021. The President's Cabinet approved a new distribution process with guidelines that require the submission of spending plan for distributed funds. Funds are set aside in accounts designed for use by the project director with a defined expiration date. For the foreseeable future, recovered F&A funds are expected to be distributed only for use by project directors. Certain units and programs are excluded from the distribution based on the nature of the awards.

As you read through this report, please join us as we celebrate the successes of faculty and staff who have secured external funding awards in support of the University's mission. External funding enriches the Eastern Experience through opportunities that are otherwise limited by financial resources, and we appreciate all those who have invested effort in securing funding and managing awards.

As we look ahead to FY 2022, we hope to see a renewed attention to the pursuit of external funding. If you are interested in exploring funding opportunities, we encourage you to [visit our website](#) to get started.

FY 2021 by the Numbers



\$86
million in funding
on new awards



82
new awards



103
proposals
submitted



72
project directors
on new awards



17
first-time project
directors



86
proposal
submitters



183
human subjects
research protocols



5
animal use
protocols



16
first-time proposal
submitters



36
subawards issued



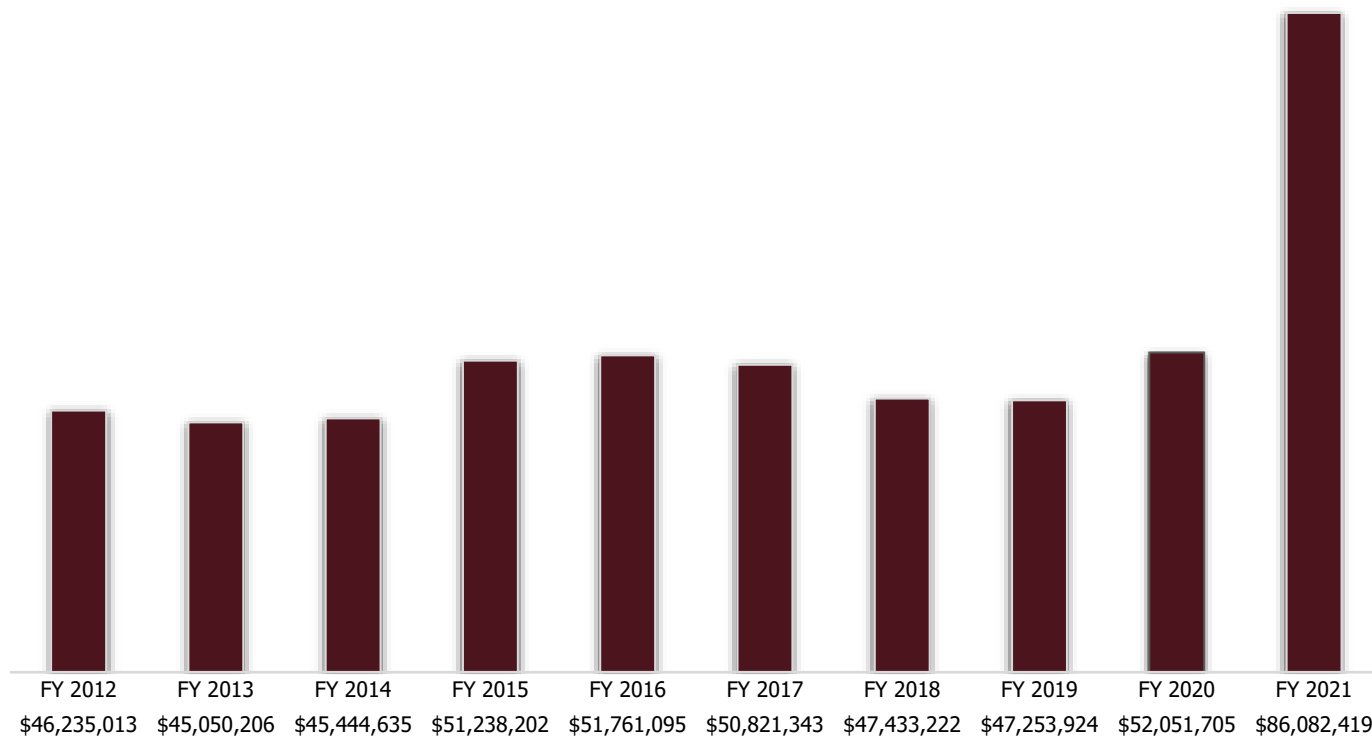
15
university-funded
scholarship grant
awards

EKU
SPONSORED PROGRAMS

Historical Comparison of Funding and Awards

Sponsored project funding on new awards totaled \$86,082,419¹ for the 2021 fiscal year. The chart below illustrates the funding trend over the last ten years.

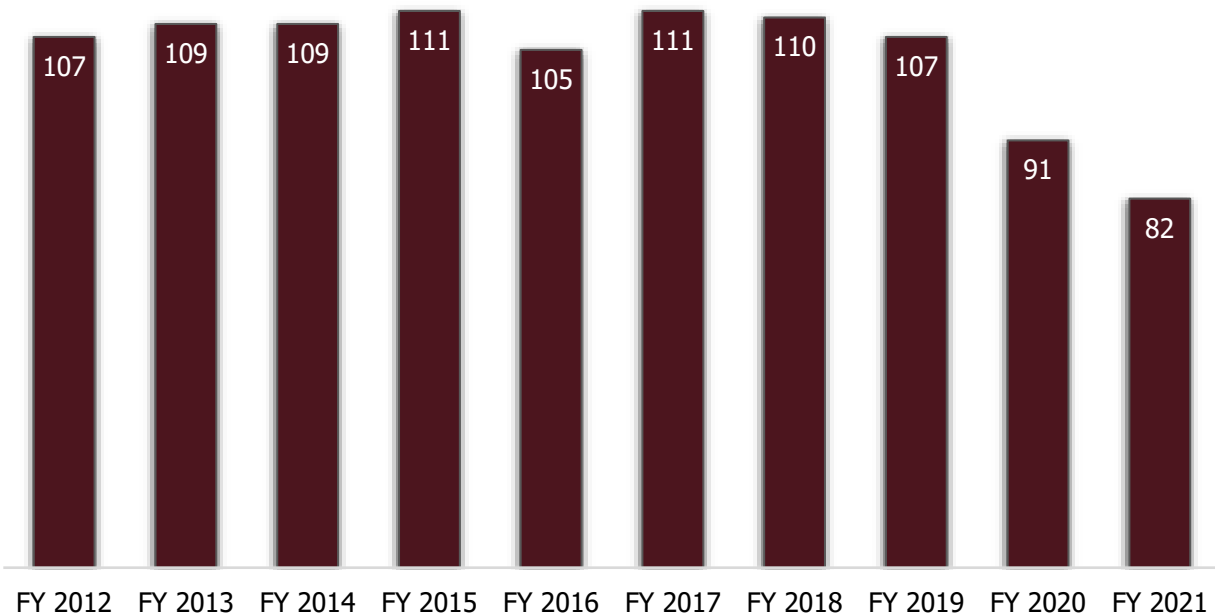
Total Funding by Year



While this historical data shows that FY 2021 was the highest funding year during the most recent 10-year period, this increase is attributable to the infusion of more than \$54 million in one-time funding authorized through Federal Acts in response to the COVID-19 pandemic. The number of awards in FY 2021 was lower than at any point in this same ten-year period as illustrated in the following graph.

¹ The dollar amounts included in this report reflect new awards received with start dates that fall between July 1, 2020 and June 30, 2021 and may not reflect additional funding awarded on awards with original start dates prior to July 1, 2020.

Number of Awards by Year



Compared to a ten-year average of 104 new awards per fiscal year, 82 new awards began in FY 2021. In part, decreases in the last two fiscal years resulted from the University's intentional discontinuation of several programs.

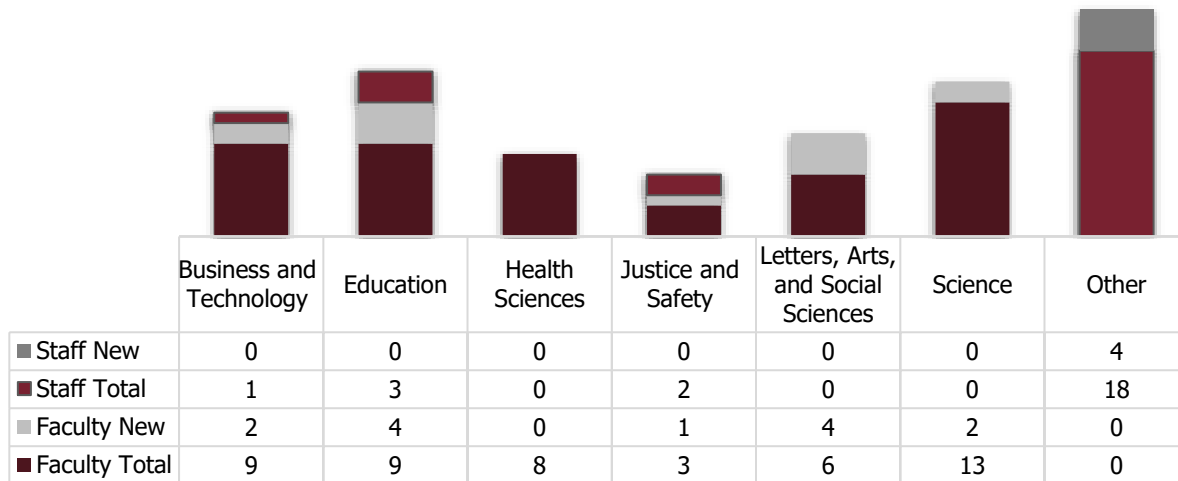


Heather Davis (Admissions) was awarded a grant from the Kentucky Council on Postsecondary Education for a summer bridge program to help incoming students successfully transition to college. At left, a student chops vegetables as part of a Karina's Kitchen activity provided by ECU faculty Karina Christopher and Rachel Harrington that taught students how to use fresh ingredients to prepare nutritious meals in their dorm rooms using microwaves.

Project Directors on New Awards

Forty-eight (48) faculty and 24 staff served as project directors on 82 separate new awards that began during the 2021 fiscal year. Thirteen (13) faculty and four (4) staff served as first-time project directors. The chart below illustrates the number of faculty and staff project directors on new awards by college.²

Project Directors on New Awards



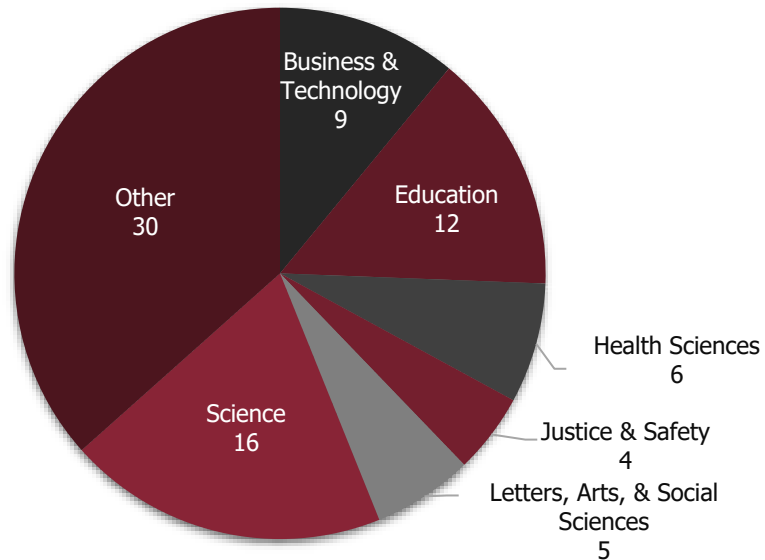
Amy Schilling (American Sign Language and Interpreter Education) directs an interpreter education program funded by the Kentucky Department of Education. At left, participants learn during an outreach workshop offered at the Kentucky Registry of Interpreters for the Deaf conference.

² Counts include both project directors and co-project directors.

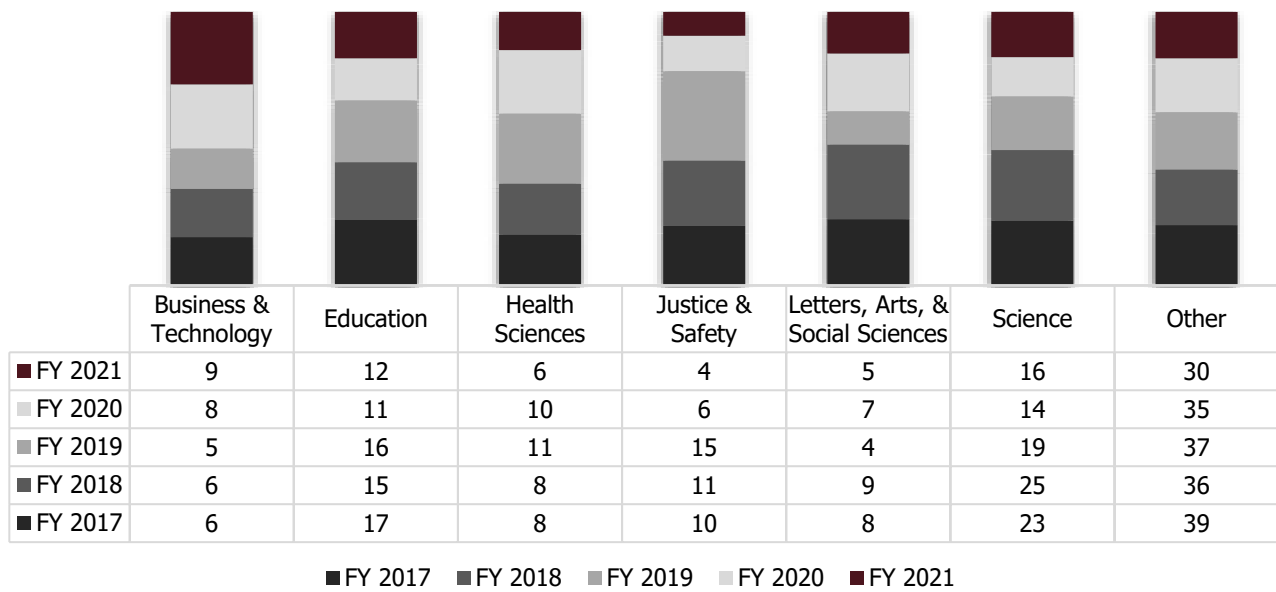
Awards by College

The University received 82 awards that began in FY 2021. The number of awards for each college is reflected in the graph below with the five-year trend illustrated in the chart that follows.

Awards by College

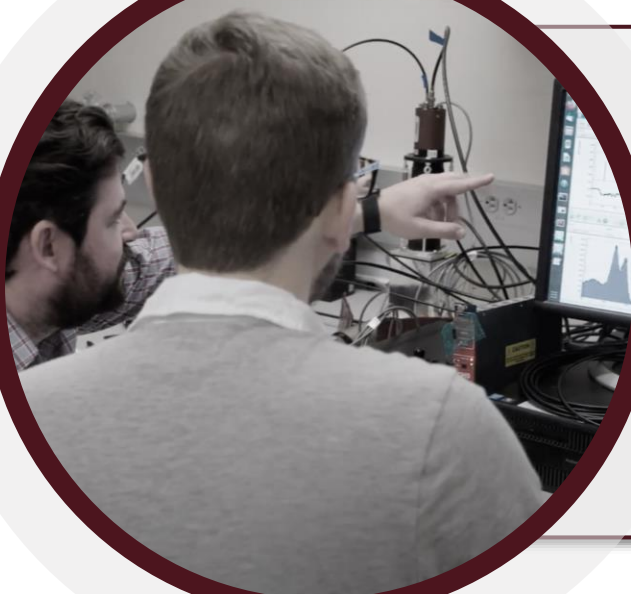
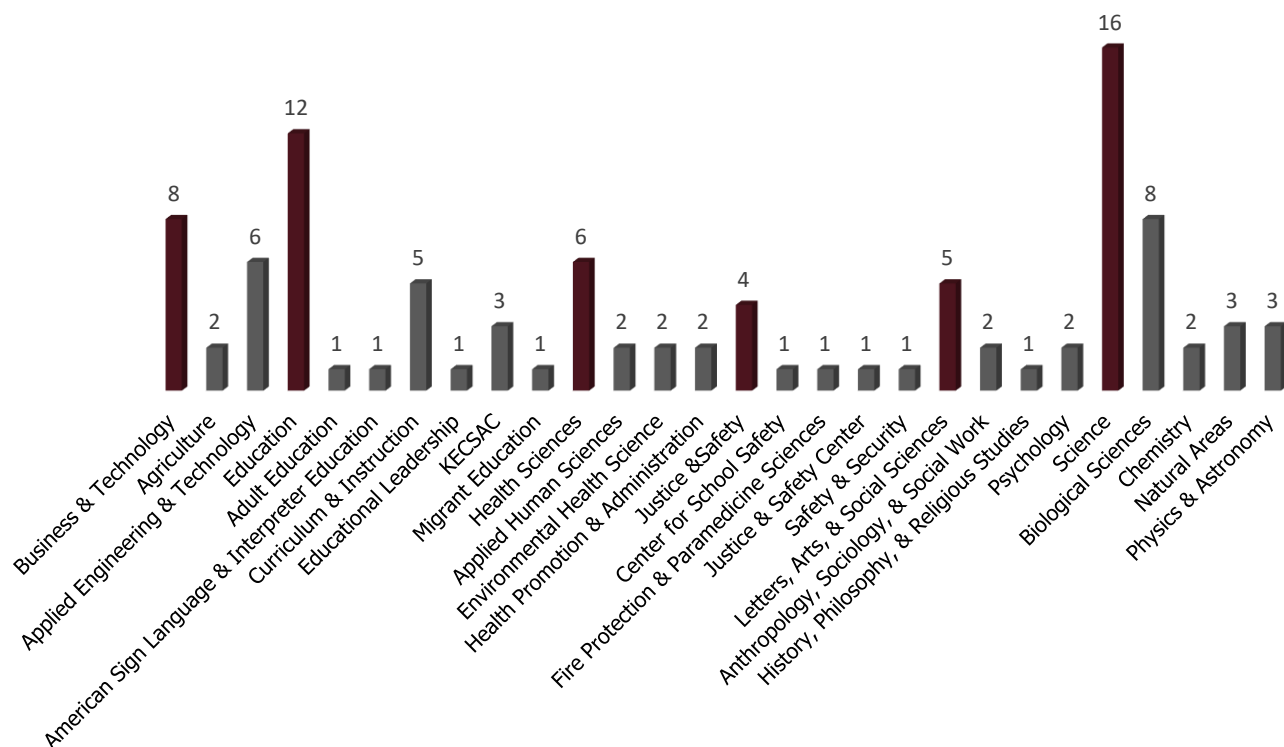


Awards by College: Five-Year Trend



The graph below reflects the number of new awards by academic department within each college with the college's total number of new awards in maroon. For projects that include a project director and co-project director(s) from different departments, awards are reported for the project director's department. Units outside the colleges are not included.

Number of Awards by Department

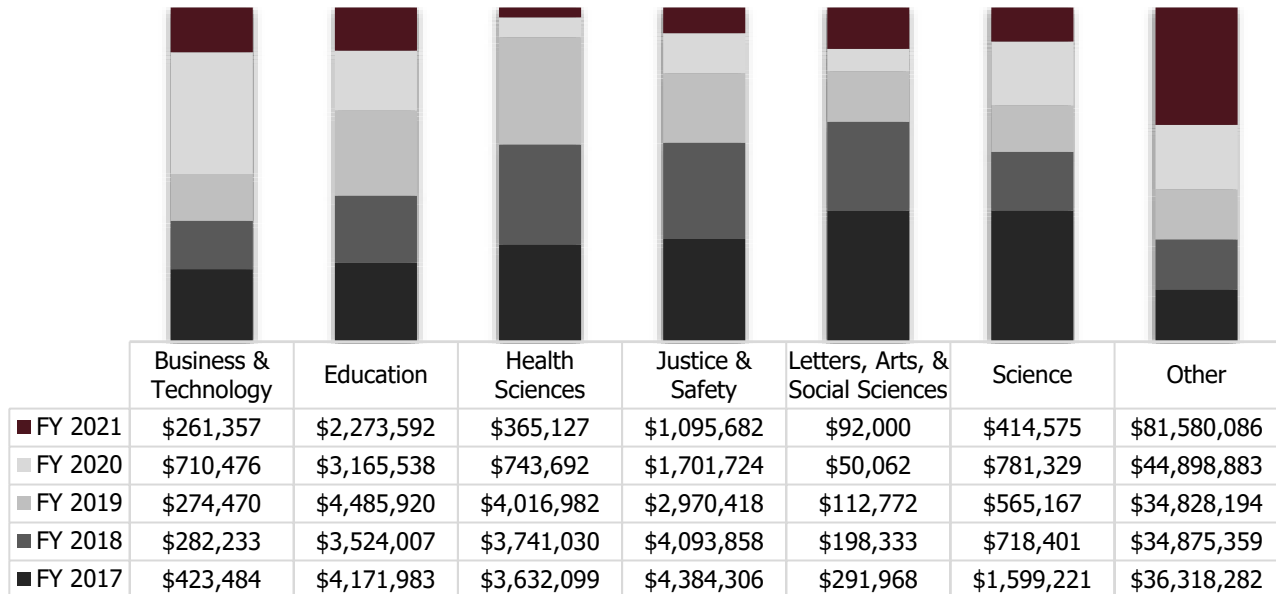


With support from a Kentucky NSF EPSCoR grant, **Jason Fry** (Physics and Astronomy) is engaged in research for the development of simulations and computational models of materials. At left, Fry works with a student reviewing data from a sodium-iodine scintillation crystal to optimize the digital signal processing filter settings for data acquisition applications.

Funding by College

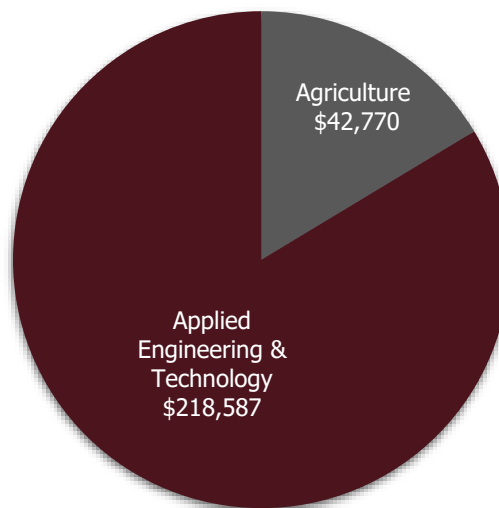
The chart below reflects the total amount of funding by college for the past five fiscal years.

Funding by College: Five-Year Trend

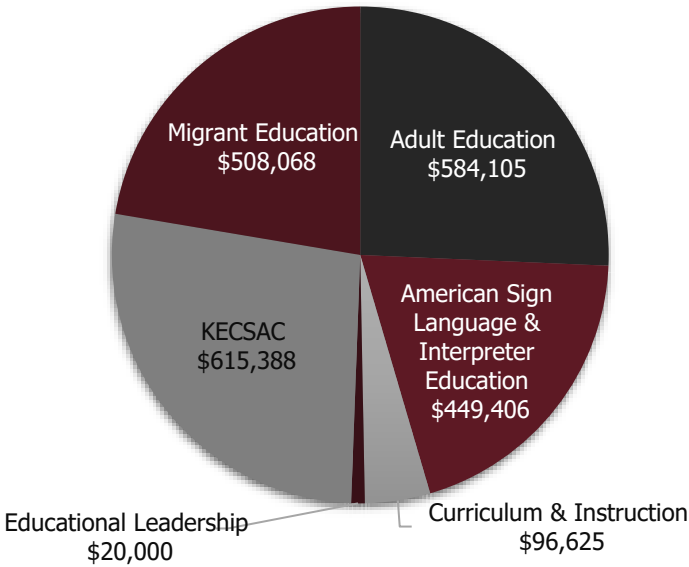


The graphs that follow illustrate the amount of funding secured within each college by presenting funding levels for each department for FY 2021. Departments without new sponsored project awards that began in FY 2021 and units outside the colleges are not included.

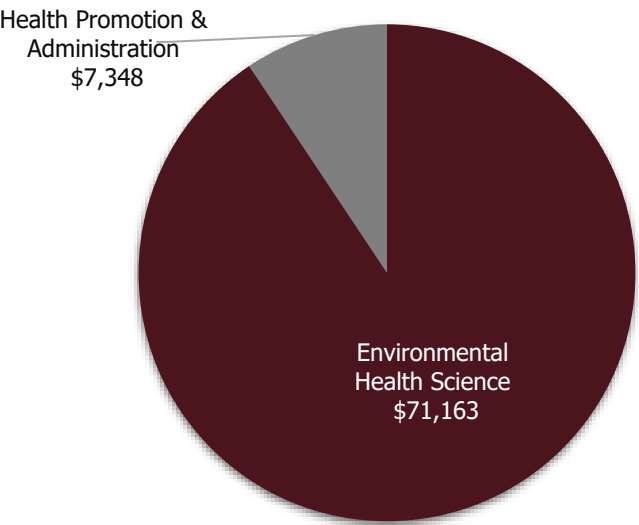
College of Business and Technology



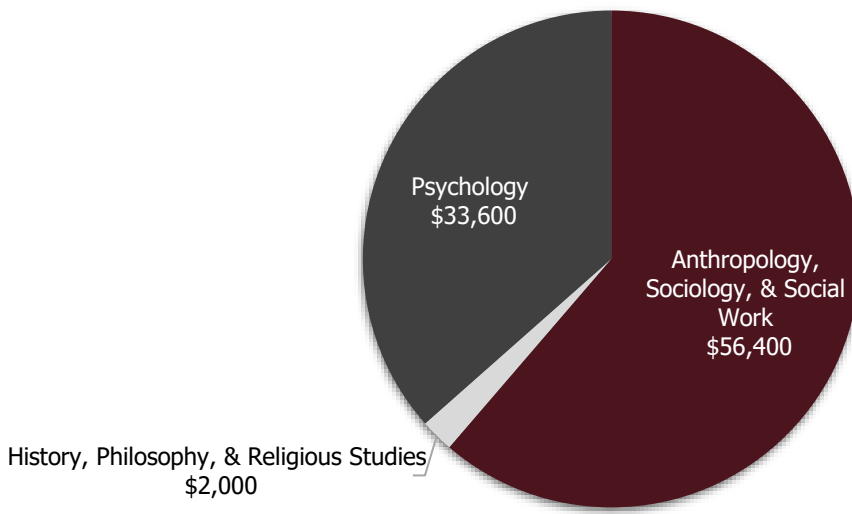
College of Education



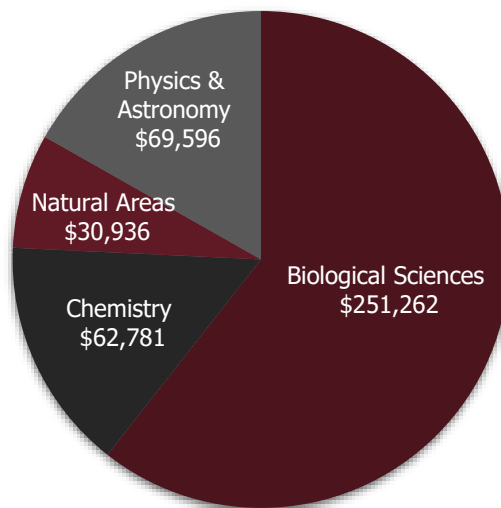
College of Health Sciences



College of Letters, Arts, and Social Sciences



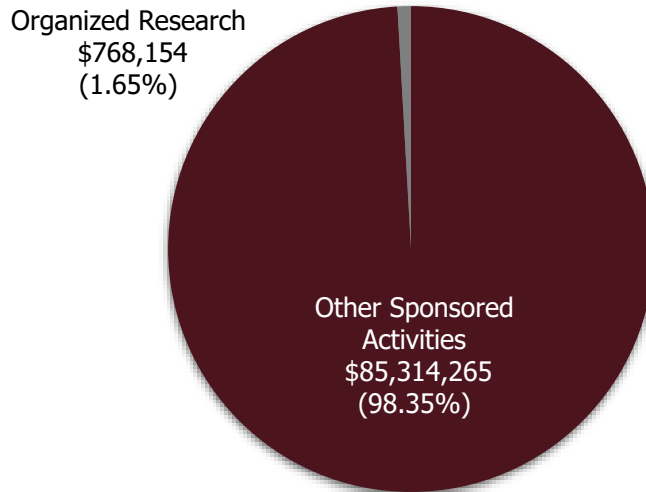
College of Science



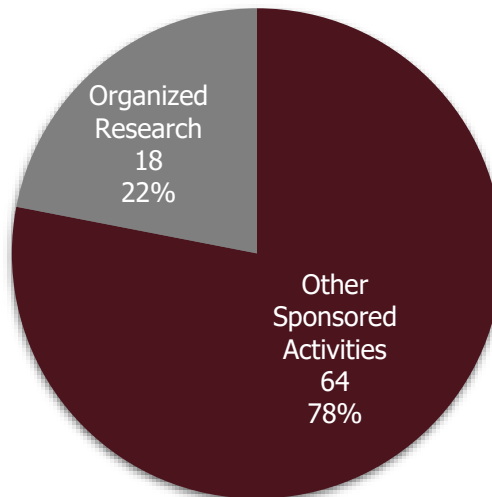
Funding and Awards by Purpose

A total of \$768,154 was secured through 18 awards for organized research. The remaining 64 awards provided \$85,314,265 in funding for other sponsored activities, including student support, training, instruction, public service, and pandemic-related support. The following graphs illustrate the funding amount and number of awards by purpose.

Funding by Purpose



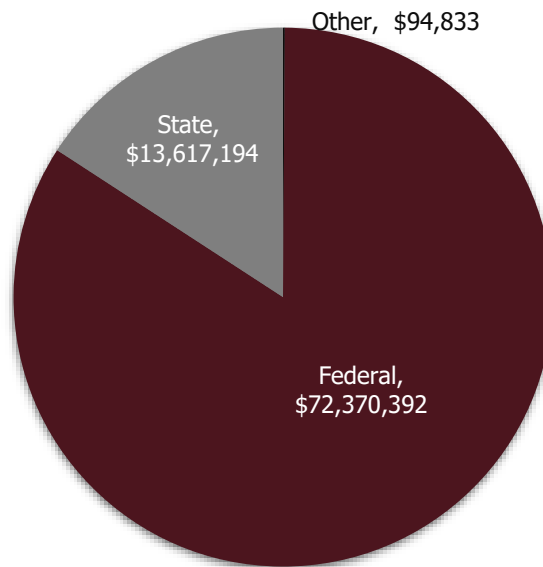
Number of Awards by Purpose



Funding by Source of Funds

Federal funds awarded totaled \$72,370,392, which represents 84.07% of the total amount awarded to ECU during the 2021 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 entities. State-funded awards represent 15.82% of the total funding for fiscal year 2021 at \$13,617,194. The remaining \$94,833 (0.11%) was awarded by local and private sponsoring agencies. The graph below illustrates the amount of funding awarded by source for FY 2021.

Funding by Source

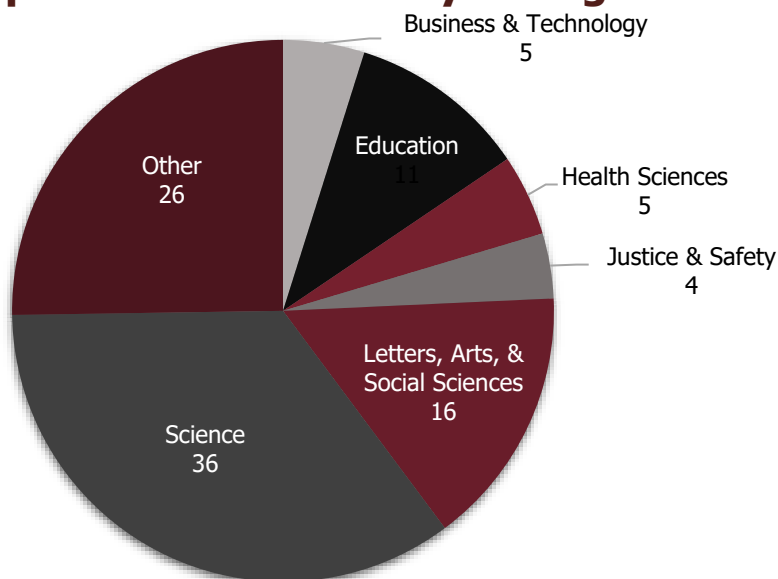


Through a grant from the Kentucky Department of Education, **Michael McDermott** and **Abdel Lawani** (Agriculture) hosted a workshop for high school teachers in developing curriculum on the use of drones in agriculture.

Proposal Submissions

During the 2021 fiscal year, a total of 103 separate proposals were submitted by ECU faculty and staff. The following graph shows the number of proposals submitted by college. For projects that include a project director and co-project director(s) from different colleges, proposals are reported for the project director's college.

Proposal Submissions by College

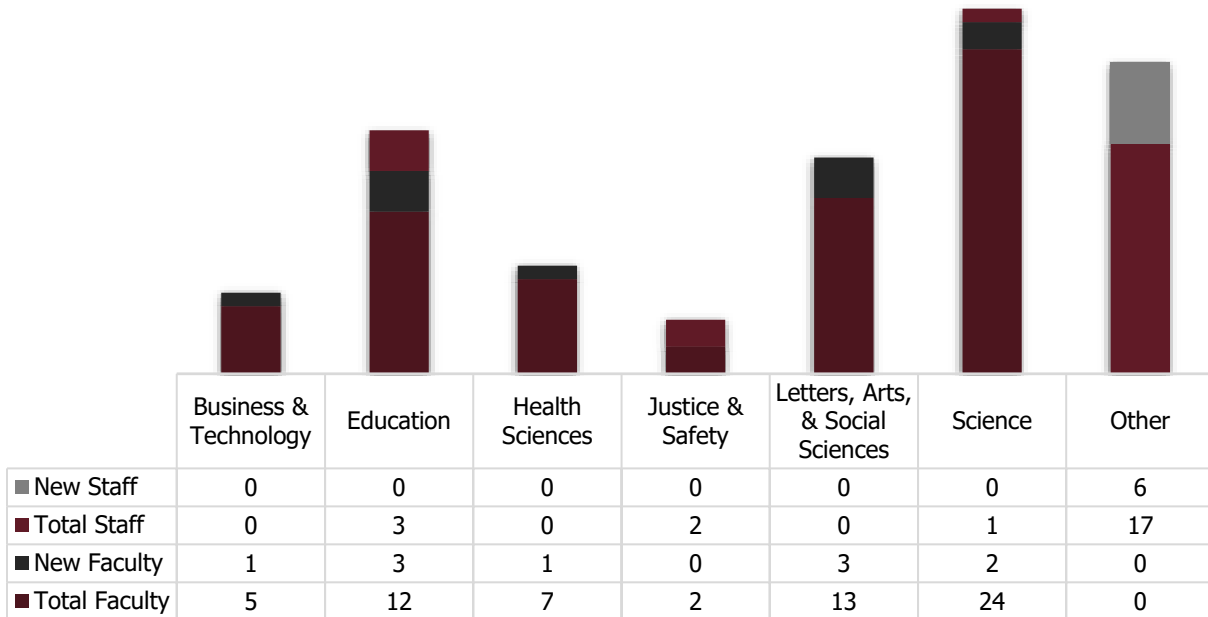


Richard Day and **Ricky Mullins** (Curriculum and Instruction) were awarded a grant from the Country School Association of America to support preservation efforts for the Granny Richardson Springs one-room schoolhouse. At left, Day teaches EDF 203 in the schoolhouse on campus.

Faculty and Staff Submitting Proposals

A total of 86 individuals (63 faculty and 23 staff) submitted proposals in FY 2021, compared to 90 in the previous fiscal year. ³ Of these, 16 (10 faculty and 6 staff) were first-time proposal submitters. The chart below illustrates the number of individuals submitting proposals during FY 2021 by college.

Faculty and Staff Submitting Proposals

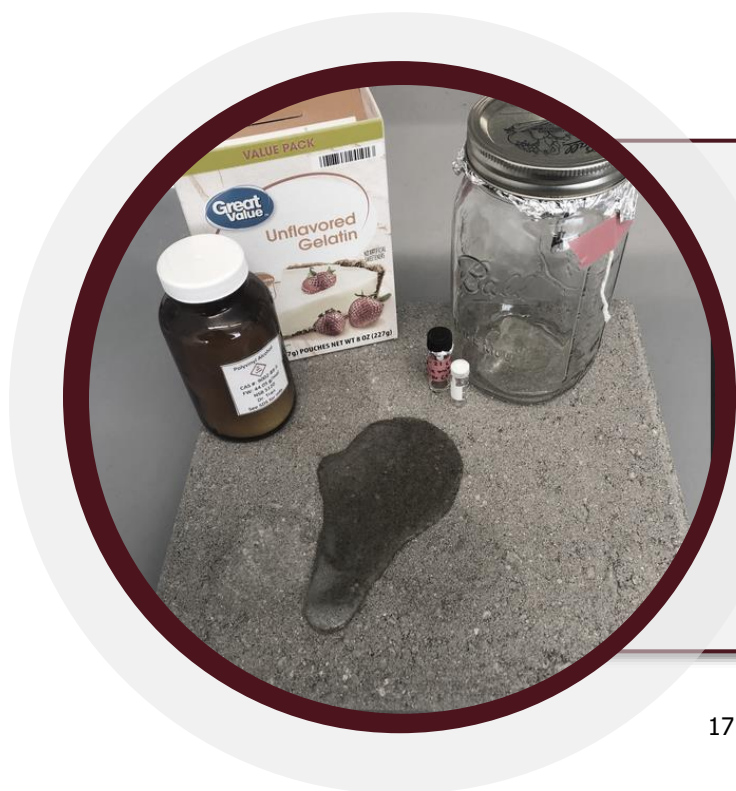
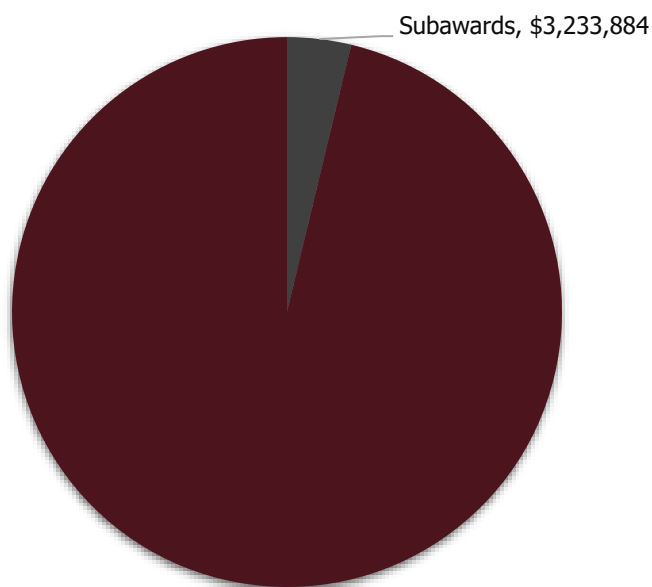


³ Counts include both project directors and co-project directors on proposals submitted.

Subawards

A total of 36 subawards with a value of \$3,233,884 were processed during the 2021 fiscal year for a variety of projects and tasks on externally-sponsored projects. The graph below illustrates the amount allocated to subrecipients as part of the University's overall sponsored project funding portfolio for new awards beginning in FY 2021.

Subawards

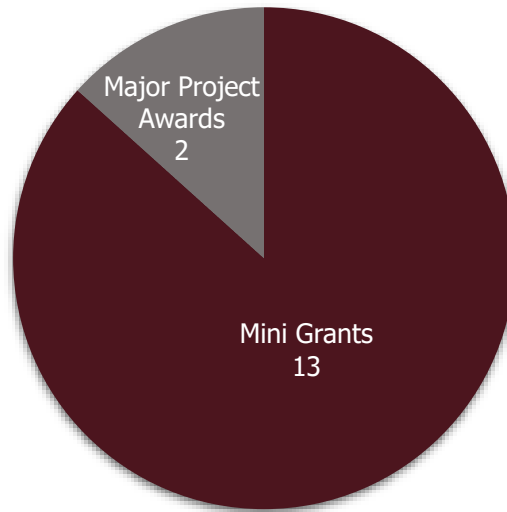


With support from a University-Funded Scholarship grant, **Cynthia Tran** (Chemistry) is conducting research exploring the use of quick-setting polymers and gelatin to penetrate small pores as an alternative to standard mason jar set-ups used to analyze ignitable liquid residues.

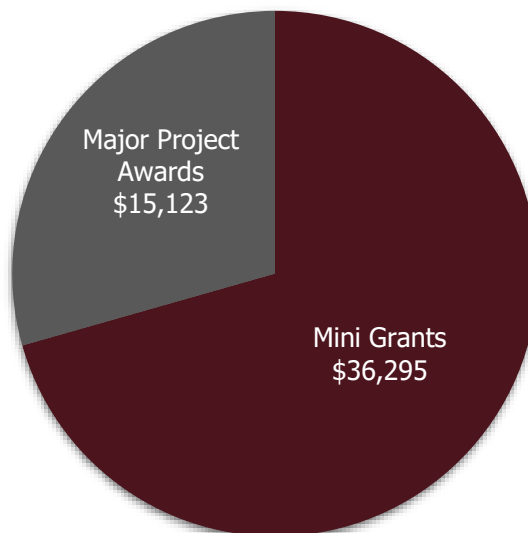
University-Funded Scholarship Grants

During the 2021 fiscal year, Sponsored Programs processed 17 applications for University-Funded Scholarship (UFS) grants. For the fall and spring competitions, there were 13 mini-grant applications and 4 major project award applications submitted. Following the competitive peer review process, funding was awarded for two (2) major project awards totaling \$15,123 and 15 mini-grants totaling \$36,295. A total of \$51,418 was awarded to support faculty scholarship in FY 2021. The graphs below reflect the number of grants and amount of funding awarded by project type.

Number of UFS Awards by Type



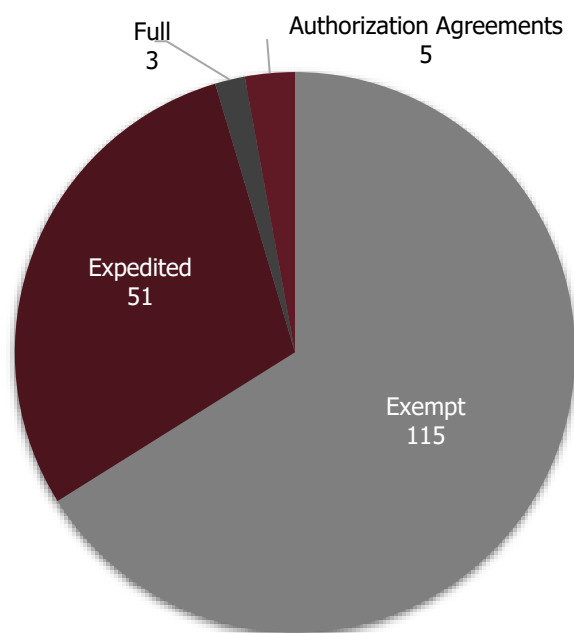
Amount of UFS Awards by Type



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 and is administered through Sponsored Programs. During the 2021 fiscal year, 174 research protocols were reviewed and approved by the IRB. Of these protocols, 115 were classified as exempt from further review under the federal Office of Human Research Protections (OHRP) regulations. Fifty-one (51) protocols were processed through the expedited review process, and three (3) protocols were approved after a full convened meeting of the IRB. Five (5) studies were approved through authorization agreements with other university or hospital IRBs. The graph below illustrates the number of IRB-approved studies by review type.

Human Subjects Research Protocols



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 vertebrate animals. The IACUC review and compliance processes are administered through Sponsored Programs. Five (5) protocols were processed and approved by the IACUC during the 2021 fiscal year. These projects represent research and instruction activities involving vertebrate animal subjects.

Funding Awards Recognition



Externally-Funded Sponsored Project Awards

Akers, Jon (Center for School Safety). Kentucky Center for School Safety. Kentucky Department of Education. \$574,066.

Anderson, Sierrah (Retention and Graduation). ECU NOVA Student Support Services. U.S. Department of Education. \$401,815.

Ballou, Elizabeth (Enrollment Management). Higher Education Emergency Relief Fund: Direct Aid to Students (Coronavirus Response and Relief Supplemental Appropriations Act). U.S. Department of Education. \$5,271,384.

Ballou, Elizabeth (Enrollment Management). Higher Education Emergency Relief Fund: Direct Aid to Students (American Rescue Plan Act). U.S. Department of Education. \$16,499,116.

Barger, Crystal (Training Resource Center). Early Childhood Development Training. Governor's Office of Early Childhood. \$18,292.

Barger, Crystal (Training Resource Center). Behavioral Health and Substance Use Initiative. Kentucky Cabinet for Health and Family Services. \$1,529,626.

Barger, Crystal (Training Resource Center). Medicaid Waiver Management Application. Kentucky Cabinet for Health and Family Services. \$29,270.

Barger, Crystal (Training Resource Center). Serve Kentucky Training Services. Cabinet for Health and Family Services. \$101,136.

Bartsch, Melissa (Counseling Center). Mental Health Services Grant. Kentucky Council on Postsecondary Education. \$82,900.

Bhandari, Michelyn, Ballard, Michael, Lasslo, Julie, and Schwartz, Laurel (Health Promotion & Administration). Madison County Community Health Assessment (CHA) and Community Health Improvement Plan (CHIP). Madison County Health Department. \$927.

Bill, Maggie (Regional Stewardship). LINC Internships for Promise Neighborhood. Berea College. \$153,518.

Bowes, John (History, Philosophy, and Religious Studies). Forest Resource Protection and Capacity Building. USDA Forest Service. \$2,000.

Brown, David and **Watson, Kelly** (Biological Sciences). Bald Eagle Distribution and Habitat Selection in Kentucky. Kentucky Ornithological Society. \$3,220.

Bundy, Myra Beth (Psychology) and **O'Brien Shirley** (Occupational Therapy). Eastern Kentucky University Developmental Disabilities Clinic Autism Social Skills and Coping Therapy Groups. WHAS Crusade for Children. \$5,600.

Bush, Dana (Applied Human Sciences). Childcare Sustainment Grant. Kentucky Cabinet for Health and Family Services. \$41,440.

Bush, Dana (Applied Human Sciences). ECU Student Child Care Access and Expansion Program. U.S. Department of Education. \$245,176.

Calderon, Lindsay (Biological Sciences) and **Ndinguri, Margaret** (Chemistry). Novel Compounds for Diagnosing, Treating, and Monitoring Triple Negative Breast Cancer. University of Kentucky. \$50,000.

Calie, Patrick (Biological Sciences). Dimensions US-China: Collaborative Research: Impacts of heritable plant-fungus symbiosis on phylogenetic, genetic and functional diversity. National Science Foundation. \$78,832.

Calie, Patrick (Biological Sciences). KY INBRE Lead Faculty Award. University of Louisville. \$20,492.

Compton, Brad (Financial Affairs). American Rescue Plan Act: Institutional Funding. U.S. Department of Education. \$15,556,086.

Compton, Brad (Financial Affairs). American Rescue Plan Act: Strengthening Institutions Program. U.S. Department of Education. \$1,397,771.

Compton, Brad (Financial Affairs). Coronavirus Response and Relief Supplemental Appropriations Act: Institutional Funding. U.S. Department of Education. \$13,139,803.

Compton, Brad (Financial Affairs). Coronavirus Response and Relief Supplemental Appropriations Act: Strengthening Institutions Program. U.S. Department of Education. \$770,445.

Compton, Brad (Financial Affairs). Governors Emergency Education Relief. Council on Post-Secondary Education. \$997,700.

Cornelius, Susan (Center for Career & Workforce Development). 21st Century Community Learning Centers Training and Technical Assistance. Kentucky Department of Education. \$203,656.

Davis, Heather (Admissions). Upward Bound Math and Science Colonels Now Student Support Funding. Berea College. \$12,948.

Davis, Heather (Admissions). GEAR UP Colonels Now. Berea College. \$180,000.

Davis, Heather (Admissions). Summer Bridge Grant. Kentucky Council on Postsecondary Education. \$100,000.

Davis, William E. (Agriculture). Perkins Leadership Funding: Center for Agriculture and Child Health Advancement. Kentucky Department of Education. \$9,460.56.

Davis, William E. (Applied Engineering and Technology). Engineering & Technology Education Consultant. Office of Career and Technical Education. \$40,356.

Davis, William E. (Applied Engineering and Technology). Instructional and Field Based Support. Kentucky Department of Education. \$10,700.

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

Davis, William E. (Applied Engineering and Technology) and **Settimi, John** (Agriculture). Perkins Basic Grant. Office of Career and Technical Education. \$97,768.

Day, Richard and **Mullins, Ricky** (Curriculum & Instruction). Preservation Grant for the Granny Richardson Springs one-room schoolhouse. Country School Association of America. \$1,000.

Dodd, Luke (Biological Sciences) and **Watson, Kelly** (Geosciences). Development of region-wide habitat models for eastern spotted skunk and other reclusive mammals in eastern Kentucky. Kentucky State Nature Preserves Commission. \$37,252.

Domenghini, Jacob and **Hagan, Carla** (Agriculture). Elderberry and Mulberry Establishment at ECU's Red Barn Garden. Kentucky Horticulture Council. \$5,000.

Dunlap, Scotty (Safety and Security). Central Appalachian Regional Education Research Center: Occupational Safety Core. University of Kentucky. \$128,021.

Fry, Jason (Physics & Astronomy). Development of Simulations and Computational Models of Materials for the KAMPERS Project. Kentucky NSF EPSCoR. \$28,162.

Fry, Jason (Physics & Astronomy). Powe Award: Precision Timing Studies in Neutron Beta Decay. Oak Ridge Associated Universities. \$5,000.

Grempe, Michelle (Curriculum & Instruction). Scholarships for Special Education Teacher Certification. WHAS Crusade for Children. \$19,000.

Grempe, Michelle and **Robinson, Jade** (Curriculum & Instruction). WHAS Crusade for Children Service Provision to Children with Special Needs. WHAS Crusade for Children. \$15,500.

Hay, Michael (Migrant Education). Kentucky Migrant Education Program Regional Service Center: Southern Region. Kentucky Department of Education. \$508,068.

Hughes, Amy (Justice and Safety Center). Kentucky Students for Disaster Readiness and Resiliency Corps (KY READY Corps). Kentucky Cabinet for Health and Family Services. \$152,290.

Jarvis, Thomas (Physics & Astronomy). Optical Spectroscopy Support for KY Advanced Manufacturing Initiative. Kentucky NSF EPSCoR. \$36,434.

Jenkins, Judith (Chemistry). Data-enabled Discovery and Design to Transform Liquid-based Energy Storage. University of Kentucky. \$32,445.

Jenkins, Judith (Chemistry). Kentucky Advanced Partnership for Enhanced Robotics and Structures (KAMPERS). Kentucky NSF EPSCoR. \$30,336.

Kent, Barbara (Military and Veterans Affairs). Day Lockers for VETS Center. Kentucky Department of Veterans Affairs. \$6,197.04.

Korson, Stacey and **McCardle, Jilliane** (Curriculum & Instruction). Kentucky Reading Project. Collaborative Center for Literacy Development. \$49,411.71.

Kozhumal, Shijin and **Gorbett, Greg** (Fire Protection and Paramedicine Sciences). Experimental and numerical investigations for the prediction of depth of calcination of gypsum plasterboards under fire exposure. National Institute of Justice. \$241,305.

Kraemer, Bradley (Biological Sciences). Effects of p75NTR on Oxidative Stress-Induced Degeneration of CNS Neurons. University of Louisville. \$56,800.

Lasslo, Julie, Bhandari, Michelyn, Ballard, Michael, and Schwartz, Laurel (Health Promotion & Administration). Madison County Community Health Improvement Plan. Madison County Health Department. \$6,421.

Link-Perez, Melanie (Biological Sciences). Herbarium Specimen Processing and Biological Data Entry. Office of Kentucky Nature Preserves. \$3,901.

Maples, James (Anthropology, Sociology, & Social Work) and **Blair, James** (Management, Marketing & International Business). The Economic Impact and LNT Behaviors of Wyoming's Lander Region Climbing Community. Access Fund. \$3,400.

Marion, Jason (Environmental Health Science). The One Health, One Global Environment Conference: Integrating U.S. Environmental Health into the Global One Health Framework. National Institutes of Health. \$8,000.

Martin, Thomas (Center for Economic Development, Entrepreneurship & Technology). Southeast Xlerator Network: Technology Transfer Accelerator Hub. University of Kentucky. \$3,969.

McDermott, Michael and **Lawani, Abdel** (Agriculture). Curriculum Development on the use of Drones in Agriculture. Kentucky Department of Education. \$28,309.

Mike Savage (WEKU). Federal Stabilization Funds. Corporation for Public Broadcasting. \$233,922.

Moreland, Robyn (Retention and Graduation). Center for Student Parents Post Secondary Program. Cabinet for Health and Family Services. \$461,984.

Mott, Cy (Biological Sciences). Assessing the consumptive and non-consumptive predatory effects of wood frog tadpoles on freshwater invertebrate communities. Kentucky Academy of Science. \$764.74.

Myers, Charles (Educational Leadership). MERR Scholarship Program. Kentucky Department of Education. \$20,000.

Nolan, Ronnie (KECSAC). Kentucky Alternative Education Summit KDE Sponsorship. Kentucky Department of Education. \$5,400.

Nolan, Ronnie (KECSAC). Kentucky Alternative Education Summit. Kentucky Department of Juvenile Justice. \$25,000.

Nolan, Ronnie (KECSAC). Kentucky Educational Collaborative for State Agency Children (KECSAC). Kentucky Department of Juvenile Justice. \$584,988.

Parker, Jill (Training Resource Center). University Training Consortium. Kentucky Cabinet for Health and Family Services. \$20,417,136.46.

Parker, Jill (Training Resource Center). University Training Consortium Professional Development & Training Cost Centers. Cabinet for Health and Family Services. \$2,290,400.

Perkins, Aileen (Adult Education). Adult Education Program: Madison and Clay Counties. Kentucky Education and Workforce Development Cabinet. \$584,105.

Pinion, Clint (Environmental Health Science). Central Appalachian Regional Education Research Center: MPH-Industrial Hygiene Core. University of Kentucky. \$63,163.

Richmond, Richard (Retention and Graduation). Ronald E. McNair Postbaccalaureate Achievement Program. U.S. Department of Education. \$261,888.

Richter, Stephen, Malzone, Jonathan, and Watson, Kelly (Natural Areas). Partnership for Forest Inventory and Monitoring to Inform Management on the Daniel Boone National Forest. USDA Forest Service. \$9,936.

Ross, Tim and Harrell, Mark (Applied Engineering and Technology). Utilizing Rapid Prototyping in Secondary, Post-Secondary Programs, and the Technology Student Association. Kentucky Department of Education. \$3,488.03.

Saulnier, Stephanie and Stevenson, Erin (Anthropology, Sociology, & Social Work). Southeastern Kentucky Restorative Justice Project. Volunteers of America. \$53,000.

Savage, Mike (WEKU). Ohio Valley ReSource. Louisville Public Media. \$46,750.

Savage, Mike (WEKU). WEKU FY 2021 Radio Community Service Grant. Corporation for Public Broadcasting. \$184,711.

Schilling, Amy (American Sign Language and Interpreter Education). Interpreter Education Program. Kentucky Department of Education. \$449,406.

Shanahan, Eileen (Curriculum & Instruction). Adolescent Literacy Project. Collaborative Center for Literacy Development. \$11,713.12.

Sons, Lisa (Retention and Graduation). Educational Talent Search Program. U.S. Department of Education. \$424,384.

Stewart, Tamara (Retention and Graduation). Upward Bound. U.S. Department of Education. \$603,279.

Wang, Ni (Applied Engineering and Technology). Platform Creation on Robotic End Effector Design and Simulation. Kentucky NSF EPSCoR. \$52,775.

Watson, Kelly (Natural Areas). Urban Tree Inventory. LG & E Energy Foundation. \$1,000.

Watson, Kelly and Richter, Stephen (Natural Areas). Recreation Heritage Engineering Lands Program Student Internships. USDA Forest Service. \$20,000.

Williamson, John and Dedic, Laura (Model Lab School). Elementary & Secondary School Emergency Relief Fund II. Kentucky Department of Education. \$200,000.

Wygant, Dustin (Psychology). Concurrent Validity of the MMPI-3 with Post-9/11 Veterans. University of Minnesota Press. \$28,000.

University-Funded Scholarship Grant Awards

Major Project Awards:

Fleischer, Anne (Occupational Science and Occupational Therapy). Online Cancer-Related Fatigue Management. \$7,466.

Fry, Jason (Physics and Astronomy). A Neutron Detector Array for Time Reversal Experiments. \$7,657.

Mini-Grant Awards:

Brown, David (Biological Sciences). Comparison of drumming Ruffed Grouse detection probabilities between human observers and autonomous recording units. \$2,954.

Brown, Gary and **Marion, Jason** (Environmental Health Science). Sunburn Prevention and Sun Protection Habits and Attitudes among Lifeguards. \$1,000.

Bundy, Myra Beth (Psychology). Assessment of the Effect of Two Different Reinforcement Schedules on Participation in a Middle/High School Virtual Mentoring Program for Students of Color. \$3,000.

Hayes, David (Biological Sciences). Impacts of Bourbon Distillation Activities on Crayfish Gut Microbial Communities. \$2,960.

Kelley, Tricia and **Cogdill, Chad** (Communication). The Hoax Media Project. \$2,601.

Kenealy, Jessica (Agriculture). Reviving a tradition: Optimization of the larval culture method for diagnosis of *Strongylus vulgaris*. \$2,989.

Page, Christen (Communication Disorders). Student Clinicians' Views of Telepractice and In-person Service Delivery. \$2,972.

Richter, Stephen (Biological Sciences). Population dynamics and feeding ecology of copperheads across varying habitat and environmental conditions. \$2,981.

Su, Lixun (Management, Marketing & International Business). How does culture keep consumers vulnerable? \$3,000.

Szekely, Ilona (Art and Design). Making and Teaching Art During the Pandemic. \$2,935.

Tran, Cynthia (Chemistry). Face and Fire: Improving the Collection of Ignitable Liquid Residues using Activated Charcoal Face Peels. \$3,000.

Watson, Kelly (Geosciences). Assessing the health and diversity of the ECU urban community forest. \$2,903.

White, John (Geosciences). High-resolution $^{40}\text{Ar}/^{39}\text{Ar}$ chronostratigraphy of the Montagna Grande Shield Volcano, Pantelleria (Sicily Channel), Italy. \$3,000.