

OCSE KY NSF EPSCoR Awards						
	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	TOTAL
Total # OCSE KY NSF EPSCoR Awards	12	12	15	7	3	49
Total # OCSE RSP Awards	7	8	9	2	2	28
\$ of OCSE KY NSF EPSCoR Awards	\$184,261	\$250,240	\$311,812	\$179,232	\$76,336	\$1,001,881
\$ of OCSE RSP Awards	\$74,938	\$77,557	\$133,820	\$20,736	\$19,871	\$326,922

All KY NSF EPSCoR Awards (FY15-FY19)				
2014-2015 KY NSF EPSCoR Awards				
PI	Title	End Date	Amount Awarded	Award Type
Emani, Chandra	Phytoremediation strategy with transgenic salt tolerant sorghum to dispose salt wastewater from oil fields	7/31/2015	\$14,975	RSP
Philips, Keith	Phylogeography and molecular systematics of the trechine cave beetle genera Darlingtonia and Neaphaenops	7/31/2015	\$15,000	RSP
Cao, Yan	Creation of an Interdisciplinary Platform for Renewable Solar Fuel Production for Students	7/31/2015	\$14,988	RSP
Dakshinamurthy, Rajalingam	Green Gold Nanoparticles for Catalytic Applications	7/31/2015	\$24,980	REG
Rathnayake, Hemali	Next Generation Flexible Organic Solar Cells through Roll-to-Roll Fabrication	7/31/2015	\$10,412	EI
Rathnayake, Hemali	Small Molecular Donor-Acceptor Dyad Additives for Organic Photovoltaics	7/31/2015	\$7,500	RSP

Slocum, Donald	Reassessment of the Derivatization Step in ortho-Lithiations	7/31/2015	\$23,963	REG
Carini, Michael	The variable comparison stars in the field of the blazar 1ES 1959+650	7/31/2015	\$7,475	RSP
Gupta, Sanju	Activated Graphene-based Carbons with Micro- and Mesoporous Structure for Applied Electrochemistry: Energy Storage and Electrocatalysis	7/31/2015	\$7,500	RSP
Jahan, Muhammad	Investigating surface characteristics and biocompatibility of Ti-6Al-4V after micro-electro-discharge machining	7/31/2015	\$25,000	REG
Khouryieh, John	Increasing the Oxidative Stability of Omega-3 Fatty Acids Utilizing Emulsion-Based Delivery Systems	7/31/2015	\$7,500	RSP
Nurcheshmeh, Morteza	Prediction of Sheet Metal Forming Limits in the Automotive Industry	7/31/2015	\$24,968	REG

2015-2016 KY NSF EPSCoR Awards

PI	Title	End Date	Amount Awarded	Award Type
Emani, Chandra	Phytoremediation strategy utilizing transgenic stone pine to dispose salt wastewater and crude oil contaminants from oil field sites	7/31/2016	\$20,684	RSP
Srivastava, Ajay	A secondary screen for Basement Membrane Degradors in Drosophila melanogaster	7/31/2016	\$9,666	RSP
Burris, Stuart	Acquisition of Advanced Polymer Chromatography System	12/31/2016	\$71,000	RSS/Equip.
Cao, Yan	Enhancement of Solar Fuel Productivity and Energy Consumption Saving	7/31/2016	\$31,291	REG
Maddox, Jeremy	Cluster-weighted modeling approach to potential energy surface fitting	7/31/2016	\$34,892	REG
Rathnayake, Hemali	Small Molecular Donor-Acceptor Dyads as Additives for	7/31/2016	\$9,666	RSP

Slocum, Donald	Assessment of the Acidity of the p-Haloanisoles and Beyond	7/31/2016	\$10,650	RSP
Zhang, Rui	Mechanistic and Synthetic Investigations on the Biomimetic Metal-Catalyzed Sulfoxidations	7/31/2016	\$35,500	REG
Novikov, Ivan	Description of Peripheral Processes in Light Unstable Ion Collisions at Energies About 1 GeV per Nucleon	7/31/2016	\$10,146	RSP
Norman, James Farley	The visual perception of large-scale distance ratios	7/31/2016	\$2,459	RSP
Shake, Matthew	Examining Cognitive Changes in Older Adults Using an Exercise-Based Mobile Application to Improve Health	7/31/2016	\$7,439	RSP
Smith, Gordon	Interfilament Adhesion Strength in Stratasys ABS-P430 Build Material	7/31/2016	\$6,847	RSP

2016-2017 KY NSF EPSCoR Awards

PI	Title	End Date	Amount Awarded	Award Type
Banga, Simran	Acquisition of an inverted fluorescent microscope for research infrastructure and training	7/31/2017	\$69,844	RSS
Emani, Chandra	The effect of plant extracts on apoptosis, stress response and cell cycle - A hands-on research project for high school and undergraduate students	7/31/2017	\$12,780	EOC
Huskey, Steve	Seismic communication in chameleons: Form and function of a novel signaling mechanism	7/31/2017	\$33,001	REG
Sharma, Nilesh	Risk Assessment of Plant-derived, Ecofriendly Gold Nanoparticles using an Animal System	7/31/2017	\$35,493	REG
Pesterfield, Lester	SOLAR SCIENCE: A Workshop for Middle School Science Teachers in Preparation for the 2017 Solar Eclipse	7/15/2017	\$13,759	EOC

Gani, Nahid	Testing Neotectonics in western Kentucky from River Profile Parameters	7/31/2017	\$10,650	RSP
North, Leslie	Enhancing Karst Groundwater Management through Real-time, Data-driven Public Outreach in the Bowling Green Metropolitan Area	7/31/2017	\$13,115	EOC
Schugart, Richard	Using a Mathematical Model with Individual Patient Data to Quantify Differences Between Patients with Diabetic Foot Ulcers	7/31/2017	\$10,376	RSP
Carini, Michael	Characterizing the rapid optical variability in optical and infrared Bright blazars	7/31/2017	\$10,650	RSP
Er, Ali	Large area deposition of Molybdenum disulfide (MoS ₂) on Si(100) by pulsed laser deposition with in situ electron diffraction monitoring	7/31/2017	\$21,300	RSP
Gupta, Sanju	Larger-area Graphene Oxide Nanoporous Membranes for Water Detoxification	7/31/2017	\$21,300	RSP
Mienaltowski, Andrew	Age-related differences in perception of peripheral	7/31/2017	\$6,443	RSP
Mutter, Sharon	Ambiguity and Context Processing in Young and Older Adults' Causal Learning and Judgment	7/31/2017	\$10,650	RSP
Galloway, Michael	CodeCloud: Software as a Service Programming Interface for Computer Science Education	7/31/2017	\$21,300	RSP
Khouryieh, John	Microencapsulation of Omega-3 Polyunsaturated Fatty Acids using Protein-Polysaccharide Complexes	7/31/2017	\$21,151	RSP
2017-2018 KY NSF EPSCoR Awards				
PI	Title	End Date	Amount Awarded	Award Type

Kingery, Thomas	Exploring Aeronautical, Aviation, and Agricultural Technologies in the Commonwealth	7/31/2018	\$7,330	EOC
Cao, Yan	Fabrication of Advanced Nano-Micron-Structured Transition Metal Oxide/ Sulfide Electrodes for Asymmetric Supercapacitor	7/31/2018	\$35,500	REG
Hill, Lawrence	CdSe-Au heterostructured catalysts synthesized in novel ionic liquids	7/31/2018	\$10,086	RSP
Yan, Bangbo	Heterodinuclear Metal-Organic Framework Materials as Photocatalysts for Reduction of Carbon Dioxide to Fuels	7/31/2018	\$46,150	REG & RSP Combined
Khenner, Mikhail	Integrated modeling and experimental studies of quantum nanoislands: growth, morphology, and coarsening	7/31/2018	\$35,500	REG
Gupta, Sanju	Engineered Nanocomposite Material Properties through Embedding of Smaller Nanoparticles in a Polymer Matrix	7/31/2018	\$35,253	REG
Smith, Gordon	Enhancements to Carbon Fiber Aerospace Structures at Blackhawk Composites (Morgantown, KY)	7/31/2018	\$9,413	EI

2018-2019 KY NSF EPSCoR Awards

PI	Title	End Date	Amount Awarded	Award Type
Deng, Yongming	Asymmetric Iron and Zinc Catalysis for Stereoselective Carbene Transfers	6/30/2019	\$56,465	iRSS
Williams, Blairanne	Leaving Ligand effects on Platinum Uptake and Efflux	6/30/2019	\$10,641	RSP
Gupta, Sanju	Advanced Bioinspired Membranes for Efficient Water Purification	6/30/2019	\$9,230	RSP

